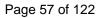




ERM-WEST	Date Received:						06/28/16		
2875 Michelle Dr., Suite 200		Work Order:					16-06-2043		
Irvine, CA 92606-1021	Preparation:						EPA 3050B		
	Method:						EPA 6010B		
	Units:					mg/kg			
Project: NRG Coolwater						Pag	e 21 of 22		
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID		

	Number	Collected			Prepared	Analyzed	
Method Blank	097-01-002-22899	N/A	Solid	ICP 7300	06/30/16	07/08/16 10:08	160630L06
Parameter		Result	<u>R</u>	L	DE	Qua	<u>alifiers</u>
Antimony		ND	0.	.773	1.03		
Arsenic		ND	0.	.773	1.03		
Barium		ND	0.	.515	1.03		
Beryllium		ND	0.	.258	1.03		
Cadmium		ND	0.	.515	1.03		
Chromium		ND	0.	.258	1.03		
Cobalt		ND	0.	.258	1.03		
Copper		ND	0.	.515	1.03		
Lead		ND	0.	.515	1.03		
Molybdenum		ND	0.	.258	1.03		
Nickel		ND	0.	.258	1.03		
Selenium		ND	0.	.773	1.03		
Silver		ND	0.	.258	1.03		
Thallium		ND	0.	.773	1.03		
Vanadium		ND	0.	.258	1.03		
Zinc		ND	1.	.03	1.03		
Lithium		ND	2.	.58	1.03		
Calcium		ND	5.	.15	1.03		
Magnesium		ND	5.	.15	1.03		
Potassium		ND	25	5.8	1.03		
Sodium		ND	2	5.8	1.03		
Boron		ND	1.	.03	1.03		

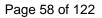




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ERM-WEST	M-WEST Date Received:						06/28/16			
2875 Michelle Dr., Suite 200			Work Ord		16-06-2043					
Irvine, CA 92606-1021			Preparatio	EPA 3050						
		Method:				EPA 601				
		Units:					mg/kg			
Project: NRG Coolwater						Pag	je 22 of 22			
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analvzed	QC Batch ID			

	Number	Collected		Prepared	Analyzed	
Method Blank	097-01-002-23013	N/A	Solid ICP 7300	07/27/16	07/29/16 09:21	160727L06
Parameter		<u>Result</u>	<u>RL</u>	DF	Qu	alifiers
Antimony		ND	0.721	0.962		
Arsenic		ND	0.721	0.962		
Barium		ND	0.481	0.962		
Beryllium		ND	0.240	0.962		
Cadmium		ND	0.481	0.962		
Chromium		ND	0.240	0.962		
Cobalt		ND	0.240	0.962		
Copper		ND	0.481	0.962		
Lead		ND	0.481	0.962		
Molybdenum		ND	0.240	0.962		
Nickel		ND	0.240	0.962		
Selenium		ND	0.721	0.962		
Silver		ND	0.240	0.962		
Thallium		ND	0.721	0.962		
Vanadium		ND	0.240	0.962		
Zinc		ND	0.962	0.962		
Lithium		ND	2.40	0.962		
Calcium		ND	4.81	0.962		
Magnesium		ND	4.81	0.962		
Potassium		ND	24.0	0.962		
Sodium		ND	24.0	0.962		
Boron		ND	0.962	0.962		





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ERM-WEST			Date Rec	eived:			06/28/16
2875 Michelle Dr., Suite 200			Work Orc	ler:			16-06-2043
Irvine, CA 92606-1021			Preparati	on:			T22.11.5. All
			Method:				EPA 6010B
			Units:				mg/L
Project: NRG Coolwater						Pa	age 1 of 1
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P5-FL-7-0	16-06-2043-50-A	06/27/16 10:45	Solid	ICP 7300	07/25/16	07/27/16 15:53	160727LA1
Parameter		Result	<u>RL</u> <u>DF</u>			Qua	alifiers
Selenium		1.18		0.150	1.00		
DUP	16-06-2043-60-A	06/27/16 00:00	Solid	ICP 7300	07/25/16	07/27/16 15:54	160727LA1
Parameter		<u>Result</u>	<u> </u>	<u>RL</u>	DF	Qua	alifiers
Selenium		1.06		0.150	1.00		
P5	16-06-2043-62-A	06/27/16 00:00	Solid	ICP 7300	07/25/16	07/27/16 15:55	160727LA1
Parameter		Result		RL	DF	Qua	alifiers
Selenium		0.558		0.150	1.00		
Method Blank	097-05-006-8548	N/A	Aqueou	s ICP 7300	07/25/16	07/27/16 15:37	160727LA1
Parameter		Result		RL	DF	Qua	alifiers
Selenium		ND	(	0.150	1.00		





ERM-WEST			Date Rece	ived:			06/28/16		
2875 Michelle Dr., Suite 200			Work Orde				16-06-2043		
Irvine, CA 92606-1021			Preparation				EPA 1311		
	Method:								
	Units:								
Project: NRG Coolwater						Pa	mg/L ige 1 of 1		
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID		
P5-FL-7-0	16-06-2043-50-A	06/27/16 10:45	Solid	ICP 7300	07/25/16	07/27/16 10:20	160726LA1		
Parameter		Result	RI	<u> </u>	DF	Qua	alifiers		
Selenium		0.466	0.	150	1.00				
DUP	16-06-2043-60-A	06/27/16 00:00	Solid	ICP 7300	07/25/16	07/27/16 10:21	160726LA1		
Parameter		Result	RI		DF	Qua	alifiers		
Selenium		0.383	0.	150	1.00				
Method Blank	099-14-021-2045	N/A	Aqueous	ICP 7300	07/25/16	07/27/16 10:07	160726LA1		
Parameter		Result	RI		DF	Qua	alifiers		
Selenium		ND	0.	150	1.00				



ERM-WEST			Date Re	ceived:			06/28/16
2875 Michelle Dr., Suite 200			Work O	rder:			16-06-2043
Irvine, CA 92606-1021			Prepara	tion:		EP	A 7471A Total
			Method:				EPA 7471A
			Units:				mg/kg
Project: NRG Coolwater						Pa	age 1 of 1
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P1-FL-1-1	16-06-2043-28-A	06/27/16 14:50	Solid	Mercury 05	07/25/16	07/29/16 18:29	160725L01
Parameter		Result		RL	DF	Qua	alifiers
Mercury		ND		0.0794	1.00	BU	
P1-FL-1-3	16-06-2043-29-A	06/27/16 14:55	Solid	Mercury 05	07/25/16	07/29/16 18:31	160725L01
Parameter		Result		<u>RL</u>	DF	Qua	alifiers
Mercury		ND		0.0794	1.00	BU	
P5-FL-7-0	16-06-2043-50-A	06/27/16 10:45	Solid	Mercury 04	07/07/16	07/07/16 14:06	160707L01
Parameter		Result	-	RL	DF	Qua	alifiers
Mercury		ND		0.0806	1.00		
DUP	16-06-2043-60-A	06/27/16 00:00	Solid	Mercury 04	07/07/16	07/07/16 14:24	160707L01
Parameter		Result		RL	DF	Qua	alifiers
Mercury		ND		0.0847	1.00		
P5	16-06-2043-62-A	06/27/16 00:00	Solid	Mercury 04	07/06/16	07/07/16 14:29	160706L03
Parameter		<u>Result</u>		<u>RL</u>	<u>DF</u>	Qua	alifiers
Mercury		0.113		0.0847	1.00		
Method Blank	099-16-272-2286	N/A	Solid	Mercury 04	07/06/16	07/06/16 21:20	160706L03
Parameter		Result		RL	DF	Qua	alifiers
Mercury		ND		0.0833	1.00		
Method Blank	099-16-272-2290	N/A	Solid	Mercury 04	07/07/16	07/07/16 13:26	160707L01
Parameter		Result		RL	DF	Qua	alifiers
Mercury		ND		0.0833	1.00		
Method Blank	099-16-272-2344	N/A	Solid	Mercury 05	07/25/16	07/25/16 12:55	160725L01
Parameter		<u>Result</u>		<u>RL</u>	<u>DF</u>	Qua	alifiers

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ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	N/A
	Method:	EPA 300.0
Project: NRG Coolwater		Page 1 of 17

Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Ba	tch Number
P1-FL-1-0	Sample		Solid	IC 1	0	07/01/16	07/01/16	14:59	160701S01F	)
P1-FL-1-0	Matrix Spike		Solid	IC 1	0	07/01/16	07/01/16	22:11	160701S01F	•
P1-FL-1-0	Matrix Spike	Duplicate	Solid	IC 1	0	07/01/16	07/01/16	22:30	160701S01F	•
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Fluoride	ND	25.00	12.60	50	12.28	49	80-120	3	0-20	3
Chloride	ND	500.0	328.8	66	386.6	77	80-120	16	0-20	3
Nitrate (as N)	2.720	50.00	35.07	65	40.81	76	80-120	15	0-20	3
Sulfate	225.3	500.0	475.6	50	526.7	60	80-120	10	0-20	3



ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	N/A
	Method:	EPA 300.0
Project: NRG Coolwater		Page 2 of 17

Quality Control Sample ID	Туре		Matrix	Instr	ument	Date Prepared	Date Ana	lyzed	MS/MSD Ba	tch Number
P1	Sample		Solid	IC 1	0	07/01/16	07/03/16	05:53	160701S02F	
P1	Matrix Spike		Solid	IC 1	0	07/01/16	07/02/16	02:17	160701S02F	•
P1	Matrix Spike D	Duplicate	Solid	IC 1	0	07/01/16	07/02/16	02:36	160701S02F	•
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	%Rec. CL	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Fluoride	2.210	25.00	8.260	24	9.280	28	80-120	12	0-20	3
Chloride	757.4	500.0	1017	52	1405	129	80-120	32	0-20	3,4
Nitrate (as N)	10.68	50.00	35.86	50	50.87	80	80-120	35	0-20	3,4
Sulfate	8020	500.0	9125	221	10210	439	80-120	11	0-20	3



ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	N/A
	Method:	EPA 300.0
Project: NRG Coolwater		Page 3 of 17

Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Ba	tch Number
16-07-1692-1	Sample		Solid	IC 1	0	07/26/16	07/27/16	02:09	160726S01F	)
16-07-1692-1	Matrix Spike		Solid	IC 1	0	07/26/16	07/27/16	05:18	160726S01F	)
16-07-1692-1	Matrix Spike	Duplicate	Solid	IC 1	0	07/26/16	07/27/16	05:37	160726S01F	)
Parameter	<u>Sample</u> Conc.	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Fluoride	ND	25.00	8.270	33	8.310	33	80-120	0	0-20	3
Chloride	ND	500.0	429.9	86	405.0	81	80-120	6	0-20	
Nitrate (as N)	ND	50.00	42.33	85	39.45	79	80-120	7	0-20	3
Sulfate	ND	500.0	388.2	78	359.4	72	80-120	8	0-20	3



ERM-WEST				Date F	Received	:				06/28/16
2875 Michelle Dr., Suite 20	00			Work (	Order:				16	6-06-2043
Irvine, CA 92606-1021				Prepa	ration:				El	PA 3550B
				Metho	d:				EPA 8	3015B (M)
Project: NRG Coolwater									Page 4	of 17
Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Anal	lyzed	MS/MSD Bat	tch Number
16-06-2086-4	Sample		Solid	GC	46	07/01/16	07/01/16	20:26	160701S04	
16-06-2086-4	Matrix Spike		Solid	GC	46	07/01/16	07/01/16 <sup>-</sup>	19:00	160701S04	
16-06-2086-4	Matrix Spike	Duplicate	Solid	GC	46	07/01/16	07/01/16	19:17	160701S04	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	MSD %Rec.	<u>%Rec. CL</u>	<u>RPD</u>	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	337.2	84	346.1	87	64-130	3	0-15	



ERM-WEST				Date F	Received	:				06/28/16
2875 Michelle Dr., Suite 20	00			Work	Order:				16	6-06-2043
Irvine, CA 92606-1021				Prepa	ration:				E	PA 3550B
				Metho	d:				EPA 8	3015B (M)
Project: NRG Coolwater									Page 5	5 of 17
Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Bat	tch Number
P5-FL-8-1	Sample		Solid	GC	47	07/26/16	07/27/16	10:54	160726S09	
P5-FL-8-1	Matrix Spike		Solid	GC	47	07/26/16	07/27/16	08:20	160726S09	
P5-FL-8-1	Matrix Spike	Duplicate	Solid	GC	47	07/26/16	07/27/16	08:38	160726S09	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Motor Oil	165.6	400.0	519.7	89	615.6	112	64-130	17	0-15	4



ERM-WEST				Date F	Received					06/28/16
2875 Michelle Dr., Suite 200				Work	Order:				16	6-06-2043
Irvine, CA 92606-1021				Prepa	ration:				El	PA 3550B
				Metho	d:				EPA 8	8015B (M)
Project: NRG Coolwater									Page 6	of 17
Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Anal	yzed	MS/MSD Bat	ch Number
P2-FL-4.0	Sample		Solid	GC	49	07/01/16	07/02/16 (	00:00	160701S09	
P2-FL-4.0	Matrix Spike		Solid	GC	49	07/01/16	07/01/16 2	21:40	160701S09	
P2-FL-4.0	Matrix Spike	Duplicate	Solid	GC	49	07/01/16	07/01/16 2	21:58	160701S09	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> <u>%Rec.</u>	%Rec. CL	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
TPH as Motor Oil	ND	400.0	394.5	99	405.9	101	64-130	3	0-15	



ERM-WEST				Date F	Received	:				06/28/16
2875 Michelle Dr., Suite 20	00			Work	Order:				16	6-06-2043
Irvine, CA 92606-1021				Prepa	ration:				El	PA 3550B
				Metho	d:				EPA 8	3015B (M)
Project: NRG Coolwater									Page 7	' of 17
Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Bat	tch Number
16-06-2086-4	Sample		Solid	GC	46	07/01/16	07/01/16	20:26	160701S03	
16-06-2086-4	Matrix Spike		Solid	GC	46	07/01/16	07/01/16	18:25	160701S03	
16-06-2086-4	Matrix Spike	Duplicate	Solid	GC	46	07/01/16	07/01/16	18:43	160701S03	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	<u>%Rec. CL</u>	<u>RPD</u>	RPD CL	<u>Qualifiers</u>
TPH as Diesel	ND	400.0	305.9	76	356.0	89	64-130	15	0-15	



ERM-WEST				Date	Received:					06/28/16
2875 Michelle Dr., Suite 200				Work	c Order:				16	6-06-2043
Irvine, CA 92606-1021				Prep	aration:				E	PA 3550B
				Meth	od:				EPA 8	3015B (M)
Project: NRG Coolwater									Page 8	of 17
Quality Control Sample ID	Туре		Matrix	In	strument	Date Prepared	Date Anal	yzed	MS/MSD Bat	ch Number
P5-FL-8-1	Sample		Solid	G	C 47	07/26/16	07/27/16	10:54	160726S08	
P5-FL-8-1	Matrix Spike		Solid	G	C 47	07/26/16	07/27/16	07:47	160726S08	
P5-FL-8-1	Matrix Spike	Duplicate	Solid	G	C 47	07/26/16	07/27/16	08:03	160726S08	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	MS Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> <u>%Rec.</u>	%Rec. CL	<u>RPD</u>	RPD CL	Qualifiers
TPH as Diesel	41.01	400.0	374.7	83	409.8	92	64-130	9	0-15	



ERM-WEST				Date F	Received	:				06/28/16
2875 Michelle Dr., Suite 20	00			Work (	Order:				16	6-06-2043
Irvine, CA 92606-1021				Prepa	ration:				E	PA 3550B
				Metho	d:				EPA 8	8015B (M)
Project: NRG Coolwater									Page 9	of 17
Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Anal	yzed	MS/MSD Bat	ch Number
P2-FL-4.0	Sample		Solid	GC	49	07/01/16	07/02/16	00:00	160701S08	
P2-FL-4.0	Matrix Spike		Solid	GC	49	07/01/16	07/01/16	21:05	160701S08	
P2-FL-4.0	Matrix Spike	Duplicate	Solid	GC	49	07/01/16	07/01/16	21:23	160701S08	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> <u>Added</u>	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	ND	400.0	288.5	72	298.8	75	64-130	4	0-15	



ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	EPA 3050B
	Method:	EPA 6010B
Project: NRG Coolwater		Page 10 of 17

Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	d Date Ana	lyzed	MS/MSD Ba	tch Number
P5	Sample		Solid	ICP	7300	06/30/16	07/08/16	10:49	160630S01	
P5	Matrix Spike		Solid	ICP	7300	06/30/16	07/08/16	10:15	160630S01	
P5	Matrix Spike	Duplicate	Solid	ICP	7300	06/30/16	07/08/16	10:16	160630S01	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	%Rec. CL	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Antimony	ND	25.00	4.645	19	4.974	20	50-115	7	0-20	3
Arsenic	12.11	25.00	38.15	104	40.37	113	75-125	6	0-20	
Barium	287.4	25.00	302.3	4X	297.4	4X	75-125	4X	0-20	Q
Beryllium	0.7891	25.00	27.83	108	27.82	108	75-125	0	0-20	
Cadmium	1.399	25.00	26.33	100	26.03	99	75-125	1	0-20	
Chromium	24.81	25.00	51.08	105	50.09	101	75-125	2	0-20	
Cobalt	6.283	25.00	32.24	104	31.72	102	75-125	2	0-20	
Copper	48.95	25.00	73.66	99	72.99	96	75-125	1	0-20	
Lead	25.08	25.00	49.53	98	48.89	95	75-125	1	0-20	
Molybdenum	2.427	25.00	28.06	103	28.74	105	75-125	2	0-20	
Nickel	14.43	25.00	39.64	101	38.90	98	75-125	2	0-20	
Selenium	12.32	25.00	37.68	101	39.96	111	75-125	6	0-20	
Silver	0.4798	12.50	13.89	107	14.22	110	75-125	2	0-20	
Thallium	ND	25.00	14.84	59	17.26	69	75-125	15	0-20	3
Vanadium	37.80	25.00	65.32	110	62.93	101	75-125	4	0-20	
Zinc	48.29	25.00	72.70	98	69.35	84	75-125	5	0-20	
Lithium	ND	25.00	1.237	5	-16.15	-65	75-125	0	0-20	3
Calcium	61740	25.00	33540	4X	53460	4X	75-125	4X	0-20	Q
Magnesium	7660	25.00	6169	4X	6042	4X	75-125	4X	0-20	Q
Potassium	2091	250.0	2521	4X	2415	4X	75-125	4X	0-20	Q
Sodium	12210	250.0	12740	4X	12290	4X	75-125	4X	0-20	Q
Boron	260.3	25.00	254.6	4X	260.4	4X	75-125	4X	0-20	Q



ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	EPA 3050B
	Method:	EPA 6010B
Project: NRG Coolwater		Page 11 of 17

Quality Control Sample ID	Туре		Matrix	Instr	ument	Date Prepared	d Date Ana	lyzed	MS/MSD Ba	tch Number
P1-FL-1-0	Sample		Solid	ICP	7300	06/30/16	07/08/16	10:17	160630S06	
P1-FL-1-0	Matrix Spike		Solid	ICP	7300	06/30/16	07/08/16	10:13	160630S06	
P1-FL-1-0	Matrix Spike I	Duplicate	Solid	ICP	7300	06/30/16	07/08/16	10:14	160630S06	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	%Rec. CL	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Antimony	ND	25.00	9.176	37	8.237	33	50-115	11	0-20	3
Arsenic	2.221	25.00	28.26	104	25.86	95	75-125	9	0-20	
Barium	127.1	25.00	160.1	4X	129.5	4X	75-125	4X	0-20	Q
Beryllium	ND	25.00	25.83	103	23.99	96	75-125	7	0-20	
Cadmium	ND	25.00	24.97	100	23.78	95	75-125	5	0-20	
Chromium	5.089	25.00	32.02	108	29.80	99	75-125	7	0-20	
Cobalt	3.472	25.00	29.37	104	26.89	94	75-125	9	0-20	
Copper	5.734	25.00	33.28	110	30.80	100	75-125	8	0-20	
Lead	3.675	25.00	29.58	104	26.98	93	75-125	9	0-20	
Molybdenum	ND	25.00	24.40	98	22.60	90	75-125	8	0-20	
Nickel	3.895	25.00	30.01	104	27.43	94	75-125	9	0-20	
Selenium	ND	25.00	23.80	95	22.69	91	75-125	5	0-20	
Silver	ND	12.50	12.63	101	12.00	96	75-125	5	0-20	
Thallium	ND	25.00	24.09	96	22.99	92	75-125	5	0-20	
Vanadium	17.11	25.00	46.56	118	41.25	97	75-125	12	0-20	
Zinc	26.44	25.00	58.76	129	52.13	103	75-125	12	0-20	3
Lithium	ND	25.00	23.03	92	21.57	86	75-125	7	0-20	
Calcium	5694	25.00	6416	4X	5499	4X	75-125	4X	0-20	Q
Magnesium	2713	25.00	3229	4X	2695	4X	75-125	4X	0-20	Q
Potassium	1533	250.0	2071	4X	1761	4X	75-125	4X	0-20	Q
Sodium	92.84	250.0	376.6	114	336.0	97	75-125	11	0-20	
Boron	4.189	25.00	27.76	94	26.05	87	75-125	6	0-20	



ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	EPA 3050B
	Method:	EPA 6010B
Project: NRG Coolwater		Page 12 of 17

Quality Control Sample ID	Туре		Matrix	Inst	ument	Date Prepared	Date Ana	lyzed	MS/MSD Ba	tch Number
P5-FL-8-3	Sample		Solid	ICP	7300	07/27/16	07/29/16	09:51	160727S06	
P5-FL-8-3	Matrix Spike		Solid	ICP	7300	07/27/16	07/29/16	09:23	160727S06	
P5-FL-8-3	Matrix Spike	Duplicate	Solid	ICP	7300	07/27/16	07/29/16	09:24	160727S06	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	%Rec. CL	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Antimony	ND	25.00	2.636	11	2.561	10	50-115	3	0-20	3
Arsenic	1.968	25.00	25.13	93	26.70	99	75-125	6	0-20	
Barium	109.1	25.00	112.3	4X	120.9	4X	75-125	4X	0-20	Q
Beryllium	0.6282	25.00	25.98	101	27.86	109	75-125	7	0-20	
Cadmium	ND	25.00	24.88	100	26.67	107	75-125	7	0-20	
Chromium	13.13	25.00	36.53	94	38.86	103	75-125	6	0-20	
Cobalt	8.740	25.00	33.31	98	35.47	107	75-125	6	0-20	
Copper	11.72	25.00	36.66	100	39.17	110	75-125	7	0-20	
Lead	5.810	25.00	30.29	98	32.38	106	75-125	7	0-20	
Molybdenum	0.5686	25.00	20.55	80	21.09	82	75-125	3	0-20	
Nickel	8.724	25.00	32.94	97	35.45	107	75-125	7	0-20	
Selenium	ND	25.00	22.67	91	22.31	89	75-125	2	0-20	
Silver	ND	12.50	12.51	100	13.17	105	75-125	5	0-20	
Thallium	ND	25.00	24.62	98	26.15	105	75-125	6	0-20	
Vanadium	42.07	25.00	58.92	67	63.13	84	75-125	7	0-20	3
Zinc	45.53	25.00	65.83	81	71.03	102	75-125	8	0-20	
Lithium	12.01	25.00	32.57	82	33.11	84	75-125	2	0-20	
Calcium	5623	25.00	5012	4X	5301	4X	75-125	4X	0-20	Q
Magnesium	5402	25.00	4897	4X	5284	4X	75-125	4X	0-20	Q
Potassium	2586	250.0	2585	4X	2676	4X	75-125	4X	0-20	Q
Sodium	586.0	250.0	819.2	93	843.5	103	75-125	3	0-20	
Boron	7.735	25.00	29.83	88	30.73	92	75-125	3	0-20	



ERM-WEST				Da	te Received:					06/28/16
2875 Michelle Dr., Suite 200				Wc	ork Order:				16	6-06-2043
Irvine, CA 92606-1021				Pre	eparation:				T22	2.11.5. All
				Me	thod:				El	PA 6010B
Project: NRG Coolwater									Page 13	of 17
Quality Control Sample ID	Туре		Matrix		Instrument	Date Prepared	Date Anal	yzed	MS/MSD Bat	ch Number
16-07-1717-1	Sample		Aqueous	s	ICP 7300	07/27/16	07/27/16 <sup>·</sup>	15:39	160727SA1	
16-07-1717-1	Matrix Spike		Aqueous	S	ICP 7300	07/27/16	07/27/16 <sup>-</sup>	15:41	160727SA1	
16-07-1717-1	Matrix Spike	Duplicate	Aqueous	S	ICP 7300	07/27/16	07/27/16 <sup>-</sup>	15:42	160727SA1	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Re	<u>MSD</u> c. Conc.	<u>MSD</u> <u>%Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Selenium	0.6606	5.000	5.396	95	5.555	98	75-125	3	0-20	

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ERM-WEST				Date F	Received	:				06/28/16
2875 Michelle Dr., Suite 20	0			Work	Order:				16	6-06-2043
Irvine, CA 92606-1021				Prepa	ration:					EPA 1311
				Metho	d:				E	PA 6010B
Project: NRG Coolwater									Page 14	of 17
Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Bat	tch Number
16-07-1614-1	Sample		Solid	ICP	7300	07/25/16	07/27/16	10:09	160726SA1	
16-07-1614-1	Matrix Spike		Solid	ICP	7300	07/25/16	07/27/16	10:10	160726SA1	
16-07-1614-1	Matrix Spike	Duplicate	Solid	ICP	7300	07/25/16	07/27/16	10:12	160726SA1	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	MS Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> <u>%Rec.</u>	%Rec. CL	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Selenium	ND	5.000	5.080	102	4.437	89	79-127	14	0-9	4

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ERM-WEST				Da	te Received:					06/28/16
2875 Michelle Dr., Suite 200	)			Wc	ork Order:				16	6-06-2043
Irvine, CA 92606-1021				Pre	eparation:				EPA 74	71A Total
				Me	thod:				El	PA 7471A
Project: NRG Coolwater									Page 15	of 17
Quality Control Sample ID	Туре		Matrix		Instrument	Date Prepared	Date Ana	lyzed	MS/MSD Bat	ch Number
16-07-0013-1	Sample		Sedime	nt	Mercury 04	07/06/16	07/06/16	21:25	160706S03	
16-07-0013-1	Matrix Spike		Sedime	nt	Mercury 04	07/06/16	07/06/16	21:27	160706S03	
16-07-0013-1	Matrix Spike	Duplicate	Sedimer	nt	Mercury 04	07/06/16	07/06/16	21:29	160706S03	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Re	<u>MSD</u> c. <u>Conc.</u>	<u>MSD</u> <u>%Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	RPD CL	Qualifiers
Mercury	0.1457	0.8350	0.9119	92	0.8694	87	76-136	5	0-16	

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ERM-WEST				Date F	Received					06/28/16
2875 Michelle Dr., Suite 200	)			Work (	Order:				16	6-06-2043
Irvine, CA 92606-1021				Prepa	ration:				EPA 74	71A Total
				Metho	d:				El	PA 7471A
Project: NRG Coolwater									Page 16	of 17
Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Bat	ch Number
P1-FL-1-0	Sample		Solid	Mer	cury 04	07/07/16	07/07/16	13:30	160707S01	
P1-FL-1-0	Matrix Spike		Solid	Mer	cury 04	07/07/16	07/07/16	13:33	160707S01	
P1-FL-1-0	Matrix Spike	Duplicate	Solid	Mer	cury 04	07/07/16	07/07/16	13:35	160707S01	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> <u>%Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	ND	0.8350	0.9802	117	0.8883	106	71-137	10	0-14	



ERM-WEST				Date F	Received:					06/28/16
2875 Michelle Dr., Suite 20	00			Work	Order:				10	6-06-2043
Irvine, CA 92606-1021				Prepa	ration:				EPA 74	71A Total
				Metho	d:				E	PA 7471A
Project: NRG Coolwater									Page 17	7 of 17
Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Ba	tch Number
16-07-1565-1	Sample		Solid	Ме	rcury 05	07/25/16	07/25/16	12:59	160725S01	
16-07-1565-1	Matrix Spike		Solid	Mei	rcury 05	07/25/16	07/25/16	13:01	160725S01	
16-07-1565-1	Matrix Spike	Duplicate	Solid	Mei	rcury 05	07/25/16	07/25/16	13:03	160725S01	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> <u>%Rec.</u>	%Rec. CL	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Mercury	ND	0.8350	0.8999	108	0.9333	112	71-137	4	0-14	



ERM-WEST			Date Received	:		06/28/16
2875 Michelle Dr., Suite 200	)		Work Order:			16-06-2043
Irvine, CA 92606-1021			Preparation:			N/A
			Method:			SM 2540 C (M)
Project: NRG Coolwater						Page 1 of 3
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
P3-FL-5-0	Sample	Solid	N/A	07/06/16 00:00	07/06/16 17:00	G0706TDSD1
P3-FL-5-0	Sample Duplicate	Solid	N/A	07/06/16 00:00	07/06/16 17:00	G0706TDSD1
Parameter		Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved		78390	71390	9	0-10	



ERM-WEST			Date Received	:		06/28/16
2875 Michelle Dr., Suite 200	)		Work Order:			16-06-2043
Irvine, CA 92606-1021			Preparation:			N/A
			Method:			SM 2540 C (M)
Project: NRG Coolwater						Page 2 of 3
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
P1	Sample	Solid	N/A	07/06/16 00:00	07/06/16 19:00	G0706TDSD3
P1	Sample Duplicate	Solid	N/A	07/06/16 00:00	07/06/16 19:00	G0706TDSD3
Parameter		Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved		24970	27000	8	0-10	



ERM-WEST			Date Received	:		06/28/16
2875 Michelle Dr., Suite 200	)		Work Order:			16-06-2043
Irvine, CA 92606-1021			Preparation:			N/A
			Method:			SM 2540 C (M)
Project: NRG Coolwater						Page 3 of 3
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
P1-FL-2-3	Sample	Solid	N/A	07/26/16 00:00	07/26/16 22:00	G0726TDSD1
P1-FL-2-3	Sample Duplicate	Solid	N/A	07/26/16 00:00	07/26/16 22:00	G0726TDSD1
Parameter		Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total Dissolved		4455	4677	5	0-10	



ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	N/A
	Method:	EPA 300.0
Project: NRG Coolwater		Page 1 of 17

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	CS Batch Number
099-12-922-739	LCS	Solid	IC 10	07/01/16	07/01/16 14:38 1	160701L01P
Parameter		Spike Added	Conc. Recove	red LCS %Re	<u>ec. %Rec. (</u>	CL Qualifiers
Fluoride		25.00	24.32	97	90-110	
Chloride		500.0	493.3	99	90-110	
Nitrate (as N)		50.00	49.11	98	90-110	
Sulfate		500.0	488.9	98	90-110	



ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	N/A
	Method:	EPA 300.0
Project: NRG Coolwater		Page 2 of 17

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-922-740	LCS	Solid	IC 10	07/01/16	07/02/16 00:05	160701L02P
Parameter		Spike Added	Conc. Recover	ed LCS %Re	<u>ec. %Rec.</u>	CL Qualifiers
Fluoride		25.00	25.44	102	90-110	
Chloride		500.0	496.3	99	90-110	
Nitrate (as N)		50.00	49.56	99	90-110	
Sulfate		500.0	490.8	98	90-110	



ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	N/A
	Method:	EPA 300.0
Project: NRG Coolwater		Page 3 of 17

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	d Date Analyzed LCS	Batch Number
099-12-922-746	LCS	Solid	IC 10	07/26/16	07/27/16 13:01 1607	26L01P
Parameter		Spike Added	Conc. Recove	ered LCS %F	Rec. <u>%Rec. CL</u>	<u>Qualifiers</u>
Fluoride		25.00	22.96	92	90-110	
Chloride		500.0	480.7	96	90-110	
Nitrate (as N)		50.00	48.30	97	90-110	
Sulfate		500.0	479.9	96	90-110	



ERM-WEST			Date Receiv	ved:		06/28/16	
2875 Michelle Dr., Suite 2	00		Work Order:			16-06-2043	
Irvine, CA 92606-1021			Preparation	:		EPA 3550B	
			Method:			EPA 8015B (M)	
Project: NRG Coolwater						Page 4 of 17	
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
· · · · · - · · · · · · · · · ·							

	Туре	IVIALITA	Instrument L	Date i Tepareu	Date Analyzeu LCC	Daten Number
099-15-420-1864	LCS	Solid	GC 46 0	07/01/16	07/01/16 18:07 160	701B04
Parameter		Spike Added	Conc. Recovered	d <u>LCS %Re</u>	<u>c. %Rec. CL</u>	<u>Qualifiers</u>
TPH as Motor Oil		400.0	357.1	89	75-123	



ERM-WEST			Date Received:			06/28/16
2875 Michelle Dr., Suite 20	00		Work Order:			16-06-2043
Irvine, CA 92606-1021			Preparation	:		EPA 3550B
			Method:			EPA 8015B (M)
Project: NRG Coolwater						Page 5 of 17
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number

Quality Control Sample ID	Туре	IVIALITX	Instrument L	Date Flepaleu	Date Analyzeu	LCS Batch Number
099-15-420-1913	LCS	Solid	GC 47 0	07/26/16	07/27/16 07:30	160726B09
Parameter		Spike Added	Conc. Recovere	ed LCS %Re	<u>ec. %Rec.</u>	CL Qualifiers
TPH as Motor Oil		400.0	393.9	98	75-123	3



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Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
Project: NRG Coolwater						Page 6 of 17
			Method:			EPA 8015B (M)
Irvine, CA 92606-1021			Preparation	:		EPA 3550B
2875 Michelle Dr., Suite 20	00		Work Order:			16-06-2043
ERM-WEST			Date Receiv	ved:		06/28/16

099-15-420-1868	LCS	Solid	GC 49	07/01/16	07/01/16 20:48	160701B09
Parameter		Spike Added	Conc. Recove	red LCS %R	ec. <u>%Rec.</u>	<u>CL</u> <u>Qualifiers</u>
TPH as Motor Oil		400.0	409.5	102	75-123	3



000 15 422 2525		Solid	CC 46	07/01/16	07/01/16 17:50	
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
Project: NRG Coolwater						Page 7 of 17
			Method:			EPA 8015B (M)
Irvine, CA 92606-1021			Preparation	:		EPA 3550B
2875 Michelle Dr., Suite 200	)		Work Order:			16-06-2043
ERM-WEST			Date Receiv	/ed:		06/28/16

099-15-422-2525	LCS	Solid	GC 46	07/01/16	07/01/	16 17:50	160701B03	
Parameter		Spike Added	Conc. Recov	rered LC:	<u>S %Rec.</u>	<u>%Rec.</u>	CL	Qualifiers
TPH as Diesel		400.0	379.6	95		75-123	3	



ERM-WEST			Date Receiv	/ed:		06/28/16		
2875 Michelle Dr., Suite 200	)		Work Order:			16-06-2043		
Irvine, CA 92606-1021			Preparation	:		EPA 3550B		
			Method:			EPA 8015B (M)		
Project: NRG Coolwater						Page 8 of 17		
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number		

					<b>,</b>	
099-15-422-2573	LCS	Solid	GC 47	07/26/16	07/27/16 07:13	160726B08
Parameter		Spike Added	Conc. Recover	red LCS %Re	<u>%Rec.</u>	CL Qualifiers
TPH as Diesel		400.0	390.8	98	75-123	3



ERM-WEST			Date Receiv	/ed:	06/28/16			
2875 Michelle Dr., Suite 200			Work Order:			16-06-2043		
Irvine, CA 92606-1021			Preparation:			EPA 3550B		
			Method:			EPA 8015B (M)		
Project: NRG Coolwater						Page 9 of 17		
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number		

	Type	IVIALITA	Instrument	Dale Flepaleu	Date Analyzeu	
099-15-422-2527	LCS	Solid	GC 49	07/01/16	07/01/16 20:30	I60701B08
Parameter		Spike Added	Conc. Recover	ed <u>LCS %R</u> e	<u>ec. %Rec. (</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	306.6	77	75-123	

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ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	EPA 3050B
	Method:	EPA 6010B
Project: NRG Coolwater		Page 10 of 17

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Nu	mber
097-01-002-22900	LCS	Solid	ICP 7300	06/30/16	07/08/16 10:11	160630L01A	
Parameter	Spike	Added Conc.	Recovered LCS	<u>%Rec.</u> <u>%</u> R	tec. CL ME	<u>E CL</u>	Qualifiers
Antimony	25.00	24.38	98	80-	120 73	-127	
Arsenic	25.00	24.23	97	80-	120 73	-127	
Barium	25.00	26.15	105	80-	120 73	-127	
Beryllium	25.00	23.59	94	80-	120 73	-127	
Cadmium	25.00	25.37	101	80-	120 73	-127	
Chromium	25.00	25.96	104	80-	120 73	-127	
Cobalt	25.00	27.10	108	80-	120 73	-127	
Copper	25.00	25.62	102	80-	120 73	-127	
Lead	25.00	25.34	101	80-	120 73	-127	
Molybdenum	25.00	24.89	100	80-	120 73	-127	
Nickel	25.00	26.95	108	80-	120 73	-127	
Selenium	25.00	22.96	92	80-	120 73	-127	
Silver	12.50	12.51	100	80-	120 73	-127	
Thallium	25.00	25.09	100	80-	120 73	-127	
Vanadium	25.00	24.68	99	80-	120 73	-127	
Zinc	25.00	25.72	103	80-	120 73	-127	
Lithium	25.00	24.24	97	80-	120 73	-127	
Calcium	25.00	27.03	108	80-	120 73	-127	
Magnesium	25.00	26.62	106	80-	120 73	-127	
Potassium	250.0	247.9	99	80-	120 73	-127	
Sodium	250.0	245.9	98	80-	120 73	-127	
Boron	25.00	20.22	81	80-	120 73	-127	

Total number of LCS compounds: 22

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass



### ERM-WEST 2875 Michelle Dr., Suite 200

Irvine, CA 92606-1021

Date Received:	06/28/16
Work Order:	16-06-2043
Preparation:	EPA 3050B
Method:	EPA 6010B
	Page 11 of 17

### Project: NRG Coolwater

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Nu	mber
097-01-002-22899	LCS	Solid	ICP 7300	06/30/16	07/08/16 10:09	160630L06	
Parameter	Spike A	Added Conc.	Recovered LCS	<u>%Rec.</u> <u>%</u> R	ec. CL M	<u>E CL</u>	<u>Qualifiers</u>
Antimony	25.00	23.62	94	80-	120 73	3-127	
Arsenic	25.00	23.33	93	80-	120 73	3-127	
Barium	25.00	25.39	102	80-	120 73	3-127	
Beryllium	25.00	22.78	91	80-	120 73	3-127	
Cadmium	25.00	24.43	98	80-	120 73	3-127	
Chromium	25.00	25.04	100	80-	120 73	3-127	
Cobalt	25.00	26.00	104	80-	120 73	3-127	
Copper	25.00	24.67	99	80-	120 73	3-127	
Lead	25.00	24.54	98	80-	120 73	3-127	
Molybdenum	25.00	24.04	96	80-	120 73	3-127	
Nickel	25.00	26.18	105	80-	120 73	3-127	
Selenium	25.00	22.33	89	80-	120 73	3-127	
Silver	12.50	12.16	97	80-	120 73	3-127	
Thallium	25.00	24.22	97	80-	120 73	3-127	
Vanadium	25.00	23.86	95	80-	120 73	3-127	
Zinc	25.00	24.98	100	80-	120 73	3-127	
Lithium	25.00	23.29	93	80-	120 73	3-127	
Calcium	25.00	28.11	112	80-	120 73	3-127	
Magnesium	25.00	26.79	107	80-	120 73	3-127	
Potassium	250.0	238.9	96	80-	120 73	3-127	
Sodium	250.0	245.0	98	80-	120 73	3-127	
Boron	25.00	19.91	80	80-	120 73	3-127	

Total number of LCS compounds: 22

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents



ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	EPA 3050B
	Method:	EPA 6010B
Project: NRG Coolwater		Page 12 of 17

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Nu	mber
097-01-002-23013	LCS	Solid	ICP 7300	07/27/16	07/29/16 09:22	160727L06	
Parameter	<u>Spike</u>	Added <u>Conc.</u>	Recovered LCS	<u>%Rec.</u> %R	ec. CL ME	<u>E CL</u>	Qualifiers
Antimony	25.00	24.20	97	80-	120 73·	-127	
Arsenic	25.00	24.34	97	80-	120 73·	-127	
Barium	25.00	26.38	106	80-	120 73·	-127	
Beryllium	25.00	24.82	99	80-	120 73·	-127	
Cadmium	25.00	25.55	102	80-	120 73·	-127	
Chromium	25.00	26.10	104	80-	120 73·	-127	
Cobalt	25.00	26.67	107	80-	120 73-	-127	
Copper	25.00	25.68	103	80-	120 73-	-127	
Lead	25.00	25.71	103	80-	120 73-	-127	
Molybdenum	25.00	24.64	99	80-	120 73-	-127	
Nickel	25.00	26.91	108	80-	120 73-	-127	
Selenium	25.00	23.76	95	80-	120 73-	-127	
Silver	12.50	12.83	103	80-	120 73-	-127	
Thallium	25.00	25.78	103	80-	120 73-	-127	
Vanadium	25.00	25.14	101	80-	120 73-	-127	
Zinc	25.00	25.63	103	80-	120 73-	-127	
Lithium	25.00	25.12	100	80-	120 73-	-127	
Calcium	25.00	27.04	108	80-	120 73·	-127	
Magnesium	25.00	25.52	102	80-	120 73·	-127	
Potassium	250.0	257.0	103	80-	120 73-	-127	
Sodium	250.0	264.2	106	80-	120 73-	-127	
Boron	25.00	23.84	95	80-	120 73-	-127	

Total number of LCS compounds: 22

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass



ERM-WEST			Date Receiv	ved:	06/28/16			
2875 Michelle Dr., Suite 20	00	Work Order:				16-06-2043		
Irvine, CA 92606-1021			Preparation:			T22.11.5. All		
			Method:			EPA 6010B		
Project: NRG Coolwater						Page 13 of 17		
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number		

Quality Control Sample ID	Туре	IVIALITX	Instrument D	Jale Flepaleu	Date Analyzeu LCS	Satch Number
097-05-006-8548	LCS	Aqueous	ICP 7300 0	07/25/16	07/27/16 15:38 16072	27LA1
Parameter		Spike Added	Conc. Recovered	d <u>LCS %Re</u>	<u>c. %Rec. CL</u>	Qualifiers
Selenium		5.000	5.386	108	80-120	



ERM-WEST			Date Receiv	/ed:		06/28/16
2875 Michelle Dr., Suite 20	Work Order:				16-06-2043	
Irvine, CA 92606-1021			Preparation	:		EPA 1311
			Method:			EPA 6010B
Project: NRG Coolwater						Page 14 of 17
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number

Quality Control Sample ID	Туре	Iviatrix	Instrument	Date Prepared	Date Analyzed	LCS Balch Number
099-14-021-2045	LCS	Aqueous	ICP 7300	07/25/16	07/27/16 10:08	160726LA1
Parameter		Spike Added	Conc. Recovered	ed LCS %Re	ec. <u>%Rec</u>	. CL Qualifiers
Selenium		5.000	5.161	103	80-120	0



ERM-WEST			Date Receiv	ved:		06/28/16
2875 Michelle Dr., Suite 20	0		Work Order	:		16-06-2043
Irvine, CA 92606-1021			Preparation	:		EPA 7471A Total
			Method:			EPA 7471A
Project: NRG Coolwater						Page 15 of 17
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number

adding Control Campio 15	1,960	maanx	inotramont E	Baterroparea	Batorinaryzoa	Lee Baterritamber
099-16-272-2286	LCS	Solid	Mercury 04 0	07/06/16	07/06/16 21:23	160706L03
Parameter		Spike Added	Conc. Recovered	d <u>LCS %Re</u>	<u>%Rec.</u>	CL Qualifiers
Mercury		0.8350	0.7331	88	85-121	



ERM-WEST			Date Receiv	red:	06/28/16			
2875 Michelle Dr., Suite 20	0		Work Order:			16-06-2043		
Irvine, CA 92606-1021 Preparation:				EPA 7471A Total				
			Method:			EPA 7471A		
Project: NRG Coolwater						Page 16 of 17		
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number		

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
099-16-272-2290	LCS	Solid	Mercury 04	07/07/16	07/07/16 13:28	160707L01	
Parameter		Spike Added	Conc. Recove	red LCS %R	ec. <u>%Rec</u>	. CL Qualifiers	
Mercury		0.8350	0.8897	107	85-12 <sup>-</sup>	1	





ERM-WEST			Date Recei	ved:	06/28/16		
2875 Michelle Dr., Suite 20	chelle Dr., Suite 200 Work Order:				16-06		
Irvine, CA 92606-1021			Preparation	1:	EPA 7471A Total		
			Method:			EPA 7471A	
Project: NRG Coolwater						Page 17 of 17	
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-2344	LCS	Solid	Mercury 05	07/25/16	07/25/16 12:57	160725L01
Parameter		Spike Added	Conc. Recove	ered LCS %R	<u>ec. %Rec. (</u>	CL Qualifiers
Mercury		0.8350	0.9191	110	85-121	



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## Sample Analysis Summary Report

Work Order: 16-06-2043				Page 1 of 1
Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 300.0	N/A	969	IC 10	1
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 6010B	EPA 1311	935	ICP 7300	1
EPA 6010B	T22.11.5. All	935	ICP 7300	1
EPA 7471A	EPA 7471A Total	868	Mercury 04	1
EPA 7471A	EPA 7471A Total	868	Mercury 05	1
EPA 8015B (M)	EPA 3550B	682	GC 49	1
EPA 8015B (M)	EPA 3550B	972	GC 46	1
EPA 8015B (M)	EPA 3550B	972	GC 47	1
SM 2540 C (M)	N/A	1009	N/A	1



Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Page 1 of 1



### Calscience

### Work Order: 16-06-2043

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ΒV

Qualifiers Definition See applicable analysis comment. Less than the indicated value. Greater than the indicated value. Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control. The MS/MSD RPD was out of control due to suspected matrix interference. The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference. Surrogate recovery below the acceptance limit. Surrogate recovery above the acceptance limit. Analyte was present in the associated method blank. Sample analyzed after holding time expired. Sample received after holding time expired.

**Glossary of Terms and Qualifiers** 

- CI See case narrative.
- F Concentration exceeds the calibration range.
- ET Sample was extracted past end of recommended max. holding time.
- HD The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
- HDH The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
- HDL The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
- J Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
- JA Analyte positively identified but quantitation is an estimate.
- LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean). ME
- ND Parameter not detected at the indicated reporting limit.
- Q Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
- SG The sample extract was subjected to Silica Gel treatment prior to analysis.
- Х % Recovery and/or RPD out-of-range.
- Ζ Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

## Virendra Patel

From: Sent:	Steve Williams <steve.williams@erm.com> Monday, July 25, 2016 4:26 PM</steve.williams@erm.com>
То:	Steve Ossim; Virendra Patel
Cc:	Alfonso Nunez
Subject:	RE: NRG Coolwater Additional Analyses

Virendra, please proceed.

Please also add title 22 metals 6010/6020 and mercury to sample P1-FL-1-1 and P1-FL-1-3

Steve Williams PG, CHG Partner

ERM 2875 Michelle Dr. Suite 200 Irvine, California 92606 Cell: 949-294-0835 Office Direct: 949-623-4674 Office main: 949-623-4700

Steve.williams@erm.com Visit us at www.erm.com

From: Steve Ossim
Sent: Monday, July 25, 2016 11:28 AM
To: Virendra Patel
Cc: Steve Williams; Alfonso Nunez
Subject: NRG Coolwater Additional Analyses

Hello Virendra,

Per our conversation earlier, we'd like to run analyses in accordance to the attached COC on samples that were previously held. We are aware that we are outside the hold time for TPH, but would like to run this anyway.

All new analyses are denoted in red ink with a circled "X". Please advise with any potential questions or concerns.

Sincerely appreciated, Steve

ERM 2875 Michelle Drive, Suite 200 Irvine, CA 92606

Tel: +949-623-4700 4707 (direct line) Mobile: +317-509-5989

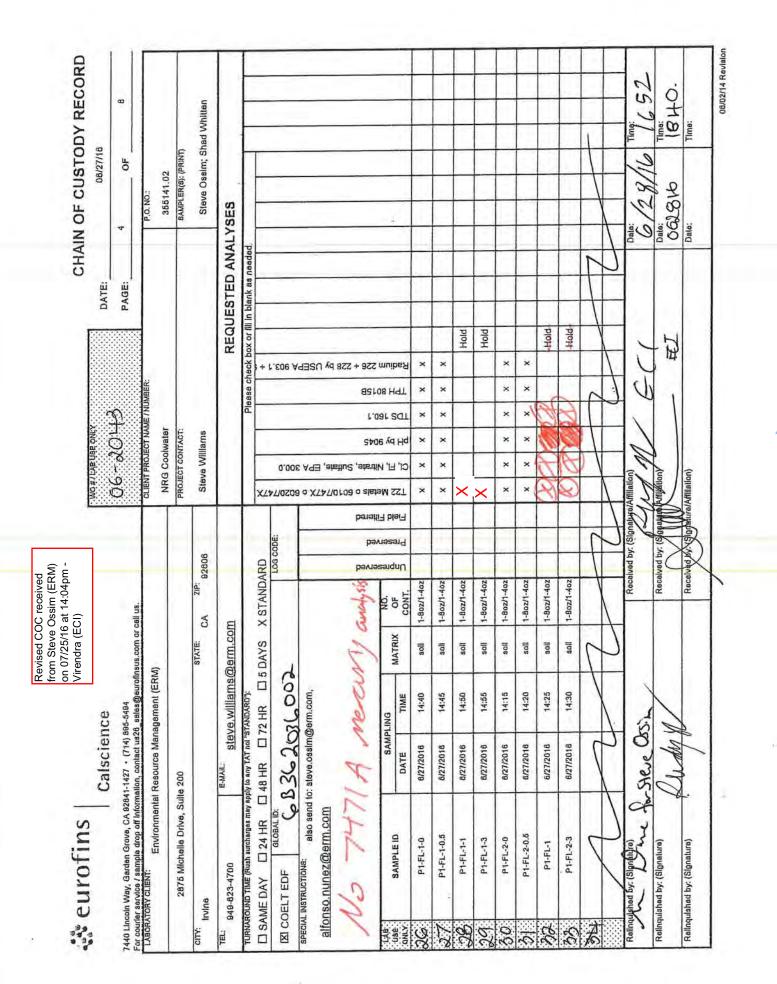
steve.ossim@erm.com www.erm.com

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, Garden Grove, CA 928	41-1427 • (714) 8	195-5494					0-00-2045			P	PAGE:	1 OF	B
For courier service / sample drop off information, contact us28_sales@eurofinsus.com or cell us. LABORATORY CLIENT:	nation, contact us2	28_sales@euro	Insus.com or	call us.		CLIENT	CLIENT PROJECT NAME / NUMBER	AME / NU	VIBER:			P.O. NO.:	
Environmente	Environmental Resource Management (ERM)	lagement (EK	(W)			NRG	NRG Coolwaler	La la				355141.02	
2875 Michelle Drive, Sulle 200	lle 200	÷				PROJE	PROJECT CONTACT:	E				SAMPLER(S): (PRINT)	
			BTATE:	CA ZIP:	92608	Stev	Steve Williams	50	-0			Steve Ossim; Shad Whitten	had Whille
948-623-4700	E-MAIL: Ster	steve.williams@erm.com	@erm.col	E						REQI	JESTED /	REQUESTED ANALYSES	Î
TURKAROUND TIME (Rush surchsinges may apply to any TAT not "STANDARD"). [1] SAME DAY [1] 24 HR [1] 48 HR [1] 72 HR	A HR HR		LI 5 DAYS	X STANDARD	RD	x	-	Ple	ase che	ck box or fill	Please check box or fill in blank as needed	.pepe	
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alfonso.nunez@erm.com	4 Nen	kins.	analy	sist	рі	24710103 o sle bana	rate, Sulfate, E	l		5 77 n Aq 822 + 92			
	SAMPLING	UNG		NO.	evie	-	-	091	108		_		-
SAMPLEID	DATE	TIME	MATRIX	OF CONT.	-	-	bH pi	SOT	-	S	Ž	Notes	
P6-1	8/27/2018	7:25	llos	1-802/1-402	×					×			
P6-2	8/27/2018	7:30	llos	1-802/1-402					-				
P6-3	8/27/2016	7:35	llos	1-802/1-402		×	×	×	×	×		Composite P5-1 to P5-5 into "P5"	nlo "P5"
P5-4	6/27/2018	7:40	solf	1-802/1-402						-		LC S	5
P5-5	8/27/2018	7:45	soll	1-802/1-402						-		incomes no	5
P4-1	8/27/2018	8:15	aoll	1-802/1-402									
P4-2	8/27/2016	8:20	Boll	1-Boz/1-4oz									
P4-3	6/27/2018	8:25	soll	1-802/1-402		×	×	×	×	×		Composite P4-1 to P4-5 into "P4"	"p4"
P4-4	8/27/2018	8:30	soll	1-80z/1-40z			-						
P4-5	8/27/2018	8:35	soll	1-Boz/1-4oz									
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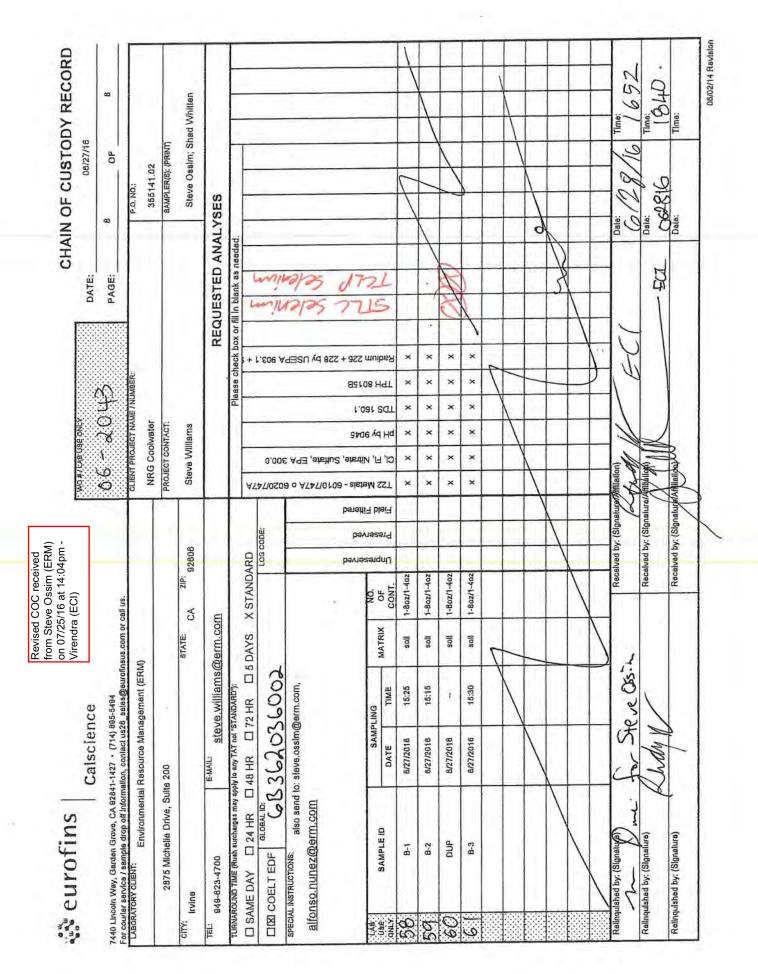


		Calscience				٦			(			DATE:		06/27/16	9
10 Lincoln V	7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494	2841-1427 • (714) B	95-5494				õ	06- 2043	6 1 0			PAGE:		5 OF	8
ABORATORY	For courter service / serupte unp on mormation, contact used, serestgeoromisers.com on LABGRATORY GLIENT: Environmental Resource Management (ERM)	e urop on minormetori, contect us of service ment (ERM) Environmental Resource Management (ERM)	agement (ERI	W)	vall us.		otte	CLIENT PROJECT NAME / NUMBER	NAME / NI	MBER:				P.O. NO.:	
	2875 Michelle Drive, Sulte 200	ulte 200					PRO.	NRG Coolwater PROJECT CONTACT:	cT:					355141.02 SAMPLER(S): (PRINT)	
city: Irvine				STATE:	CA ZIP:	92606	ŝ	Steve Williams	su					Steve Ossim; Shad Whitten	Shad Whitten
TEL: 949-6	948-823-4700	E-MAIL: SEEV	steve.williams@erm.com	@erm.col	E						REC	REQUESTED ANALYSES	ANA C	LYSES	
URNAROUN	(Rush surcharges may	s lon TAT via ol Vlaga	TANDARD'):		V OTAMIN	E	×		Id	ease che	ck box or	Please check box or fill in blank as needed.	beeded		
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24	P1-FL-3-0	8/27/2018	13:45	soli	1-802/1-402		×	×	××	×	×				
<u>35</u>	P1-FL-3-0.5	8/27/2018	13:50	soll	1-802/1-402		×	×	x x	×	×				
0	P1-FL-3-1	6/27/2016	13:55	soll	1-Boz/1-4oz		শ্ব	R	D A	~	Hold				
1	P1-PL-3-3	8/27/2016	14:00	lios	1-Boz/1-4oz		8)	R	2		Hold	-			
20 20 20	P2-FL-4-0	8/27/2016	13:20	solt	1-802/1-40Z		×	×	x x	×	×				
Ø	P2-FL-4-0.5	8/27/2016	13:25	llos	1-802/1-402		×	×	×	×	×				
01	P2-FL-4-1	6/27/2016	13:30	soll	1-802/1-402		8	C	g	B	Hoid	+			
Ŧ	P2-FL-4-3	8/27/2018	13:36	soft	1-802/1-402		81	A A	T)	8	Hold	5			
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telinquishe	Relinquished by: (Signature)	1			Rect	Received by. (Signature Anniel do	Bluke Arme	tophone -						Date:	Time:

Page 104 of 122

Inclusion         CallScience         DATE: Inclusion         DATE: Inclusion <th>the eurofins</th> <th></th> <th></th> <th>on 07/25/16 at 14:04pm - Virendra (ECI)</th> <th>on 07/25/16 at 14:04pm - Virendra (ECI)</th> <th></th> <th>BY THOM .</th> <th>O #1 FYE GRE ONEA</th> <th></th> <th></th> <th>U</th> <th>HAIN OF</th> <th>CHAIN OF CUSTODY RECORD</th> <th>DY RECO</th>	the eurofins			on 07/25/16 at 14:04pm - Virendra (ECI)	on 07/25/16 at 14:04pm - Virendra (ECI)		BY THOM .	O #1 FYE GRE ONEA			U	HAIN OF	CHAIN OF CUSTODY RECORD	DY RECO
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requested>

## Virendra Patel

From:	Alfonso Nunez <alfonso.nunez@erm.com></alfonso.nunez@erm.com>
Sent:	Wednesday, June 29, 2016 12:28 PM
To:	Steve Williams; Virendra Patel; Steve Ossim
Subject:	RE: NRG Coolwater 16-06-2043 <response< td=""></response<>

Sorry Virendra,

The change in labs, led to some mis-steps.

### SAMPLE ANALYIS

The proposed sample analysis is based on the constituents of concern listed in the WDR; the requirements listed in Hazardous and Solid Waste Management System Disposal of Coal Combustion Residuals from Electric Utilities (U.S. Environmental Protection Agency [USEPA], 2014); and total petroleum hydrocarbons based on operation equipment. The list of analysis and analytical methods are summarized below.

- California Title 22 metals, boron, calcium, lithium, magnesium, potassium, and sodium by USEPA Methods 6010 and 7471;
- Chloride, fluoride, nitrate, and sulfate by USEPA 300.0;
- pH by 9045;
- Total dissolved solids by USEPA Method 106.1;
- Total petroleum hydrocarbons as diesel and as motor oil by USEPA Method 8015b; and
- Radium 226 and 228 by USEPA 903.1 and USEPA 904.0

From: Steve Williams Sent: Wednesday, June 29, 2016 11:17 AM To: Virendra Patel; Steve Ossim; Alfonso Nunez Subject: RE: NRG Coolwater -- 16-06-2043 <response requested>

Alf, please QC and verify chain with the work plan.

Steve Williams PG, CHG Partner

ERM

2875 Michelle Dr. Suite 200 Irvine, California 92606 Cell: 949-294-0835 Office Direct: 949-623-4674 Office main: 949-623-4700 From: Virendra Patel [mailto:VirendraPatel@eurofinsUS.com] Sent: Wednesday, June 29, 2016 11:16 AM To: Steve Ossim; Alfonso Nunez Cc: Steve Williams Subject: RE: NRG Coolwater -- 16-06-2043 <response requested>

The COCs didn't the following:

T22 is to include – Calcium, Lithium, Magnesium, Potassium, Sodium? TPH is to report TPH diesel and Motor Oil?

Please advise. Thanks!

Best Regards,

Virendra Patel Project Manager

Eurofins Calscience, Inc. 7440 Lincoln Way Garden Grove, CA 92841 USA P: +1 714 895 5494 F: +1 714 894 7501

Email: <u>virendrapatel@eurofinsUS.com</u> Website: <u>www.eurofinsUS.com/Calscience</u>

From: Steve Ossim [mailto:Steve.Ossim@erm.com] Sent: Wednesday, June 29, 2016 10:25 AM To: Alfonso Nunez; Virendra Patel Cc: Steve Williams Subject: RE: NRG Coolwater -- 16-06-2043 <response requested>

For the first 4 items, the correct sample times are those written on the labels. P2-2 is 9:10am, P2-3 is 9:15am, P2-4 is 9:20am, P2-5 is 9:25am.

For the last item the chain should read P1-FL-2-1. Label is correct.

From: Alfonso Nunez Sent: Wednesday, June 29, 2016 10:14 AM To: Steve Ossim Cc: Steve Williams Subject: FW: NRG Coolwater -- 16-06-2043 <response requested> Importance: High

Steve o Can you help? Lets chat From: Virendra Patel [mailto:VirendraPatel@eurofinsUS.com] Sent: Wednesday, June 29, 2016 10:03 AM To: Alfonso Nunez; Steve Williams Cc: Erick Ovalle Subject: NRG Coolwater -- 16-06-2043 <response requested> Importance: High

Alfonso/Steve,

Good Morning. For the subject project COCs, please provide clarification on the following items:

Sample #17 – P2-2, COC has collection time of 09:15am – sample label has 09:10am – What is correct collection time? Sample #18 – P2-3, COC has collection time of 09:20am – sample label has 09:15am – What is correct collection time? Sample #19 – P2-4, COC has collection time of 09:25am – sample label has 09:20am – What is correct collection time? Sample #20 – P2-5, COC has collection time of 09:30am – sample label has 09:25am – What is correct collection time? Sample #20 – P2-5, COC has collection time of 09:30am – sample label has 09:25am – What is correct collection time? Sample #32 – COC has sample ID of P1-FL-1 – sample label has ID of P1-FL-2-1? What is correct sample ID?

Best Regards,

Virendra Patel Project Manager

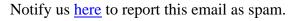
Eurofins Calscience, Inc. 7440 Lincoln Way Garden Grove, CA 92841 USA P: +1 714 895 5494 F: +1 714 894 7501

Email: <u>virendrapatel@eurofinsUS.com</u> Website: www.eurofinsUS.com/Calscience

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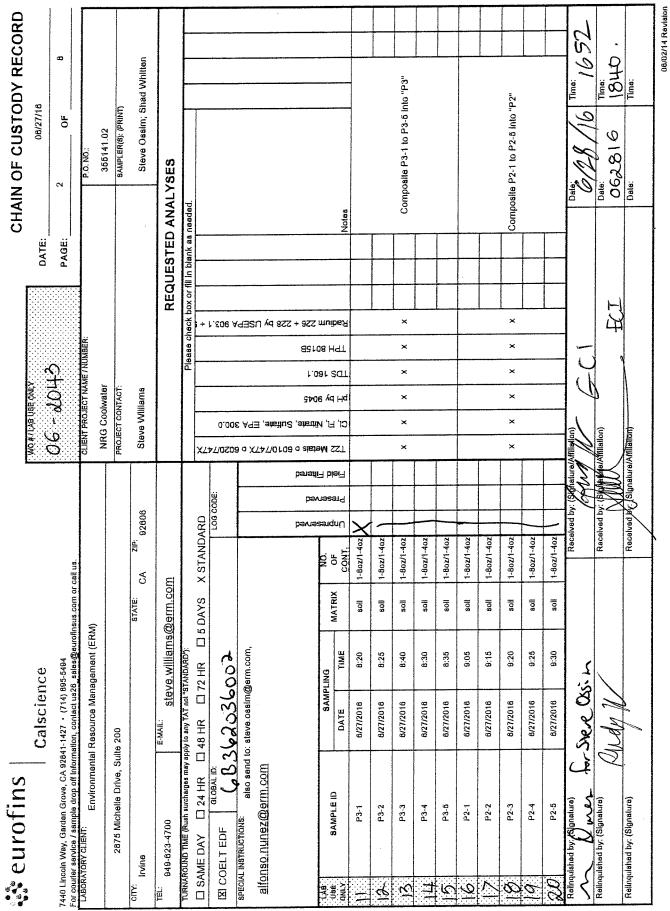
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						9			CODE:			pən	neserq									ſ	7	py: (Slgn	py: (S)	A A A A A A A A A A A A A A A A A A A	
										<u> </u>	Þ	erve	anqnU	20	20	02	02	zo	zo	ZO	oz	$\square$		ecelved	eceived	acalved	
Calscience Lucon wwy, Gardan Grove, CA 92341-1427 - (714) 886-5494 Lucen wwy, Gardan Grove, CA 92341-1427 - (714) 886-5494 Lucen wwy, Gardan Grove, CA 92341-1427 - (714) 886-5494 Lucen way, Gardan Grove, CA 92341-1427 - (714) 886-5494 Lucen way apply to any TAT and "STANDARDY 2875 Michnella Dilve, Sulla 200 Inten MROUND TME Finah turchargaar may apply to any TAT and "STANDARDY: SAME DAY COELT EDF AMME DAY COELT EDF AMME DAY COELT EDF AL INSTRUCTIONE AL INSTRUCTIONE AL INSTRUCTIONE AL INSTRUCTIONE AMPLE ID P1-FL-11-10 P1-FL			cell us.				ū	V CTAN					NO. OF CONT.	1-8oz/1-4	1-8oz/1-4	1-802/1-4	1-802/1-4	1-8oz/1-4	1-80z/1-4	1-8oz/1-4	1-802/1-4			æ	æ	æ	
Curofins     Calscience       Incomon Way, Garden Grove, CA 82441-1427 • 7(14) 885-6494       Uncomon Way, Garden Grove, CA 82441-1427 • 7(14) 885-6494       Difference       Di			o uno sus	()			Derm.cor						MATRIX	soll	soll	soți	soll	soll	soll	soll	soll	$\left( \right)$	$\mathcal{T}$				
Calscier Ca		ICe	195-5494 8 salas@aurofir	agement (ERN			/e.williams@	(TANDARD"): 20 LIO L'I F		germ.com,			LING TIME	14:40	14:45	14:50	14:55	14:15	14:20	14:25	14:30			Sh.	1		
COELT EDF COELT		Calscier	1-1427 • (714) 6 Mon. contect us2	Resource Man	ə 200		E-MAIL: Stev	ly to any TAT not "S A D LID TT -	36.20	steve.ossim(			SAMP	6/27/2016	6/27/2018	6/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2018	6/27/2016	$\langle$	ר ר	Shere	2 In All		
COEL COEL Invine SAME Invine COEL	Irofins		Vay, Gardan Grove, CA 92841 vice / samole drop off Informa	CLIENT: Environmental	2875 Michelle Drive, Sulte		123-4700	つ TIME (Rush surchargas may app) ハヘソ 「コ うょ ロロ 「」		also se	.nunez@erm.com		SAMPLEID	P1-FL-1-0	P1-FL-1-0.5	P1-FL-1-1	P1-FL-1-3	P1-FL-2-0	P1-FL-2-0.6	P1-FL-1	P1-FL-2-3	7		Y	d by: (Signature)	d by: (Signature)	
	ر ل مرد	4	) Lincoln V sourier ser	BORATORY		city: Irvine	TEL: 040-0	RNAROUNI S A A A E	COEL	ECIAL INST	alfonso		LIAB USE QNLY	(0	27	36	.6	0		c6	55	The state		elinquishe	elinquishe	ellnquishe	

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		Calscience	nce						No ago	, ( ,			DATE:		90	08/27/16		
440 Linco	7440 Lihooln Way, Garden Grove, CA 92841-1427 ~ (714) 895-5494 E-re-contene aerokan / aerokah dicor af haformation analasi tana a atasa	12841-1427 • (714) armellon control us	895-5494 28. ector@citroff	ana com or	or coll us		<u></u>	9 0	06 - 20 H 3	Ţ v			PAGE:		5	OF	8	
LABORAT	r vi corregtes en ricer sentine une ou pour montreuxit, contract de co- 1.1865RATORY GIRNT. Environmental Resource Management (ERM)	Environmental Resource Management (ERM)	nagement (ERI	(W				CLIENT PF	CLIENT PROJECT NAME / NUMBER	ME / NUN	BER				P.O. NO.:			Γ
	2875 Michelle Drive, Suite 200	Sulte 200						NHU U	PROJECT CONTACT:						355141.UZ SAMPLER(S): (PRINT)	(PRINT)		
arry: In	Irvine			STATE:	CA ZIP:	92606	1	Steve 1	Steve Williams						Steve Ossim; Shad Whitten	alm; Sha	d Whitten	
TEL: 92	949-623-4700	E-MAIL: Ste	steve.williams@erm.c	@erm.col	U							REC	REQUESTED ANALYSES	ANA	LYSES			
TURNAR	E.	y apply to any TAT not								Pla	ase chec	k box or	Please check box or fill In blank as needed	needed.		$\square$		
		24 HK 1 48 HK 1 /2 HK 1 aloby (b) 260 1/ 002				LOG CODE:					+ 1 200							
BPECIAL	BPECIAL INSTRUCTIONS: BISO BEN	also sand to slave ossim@erm com				-				<u></u>	703							
alfon	alfonso.nunez@erm.com					ря	ered	×7.47\0108 o sie 		ţ.	58 PÅ OZ 89 88							
L BY		MAR 1	DNI 10W5		NO.		йF I			091								
UNLY.	SAMPLE ID	DATE	TIME	MATRIX	OF CONT.	iqnU ear9	여년		iq Hq	sar	HqT							
46	P1-FL-3-0	6/27/2016	13:45	soli	1-802/1-402			×	×	×	×	×						
S	P1-FL-3-0.5	6/27/2018	13:50	soli	1-802/1-402			×	×	×	×	×						
Q Q	P1-FL-3-1	8/27/2018	13:55	soll	1-802/1-402							Hold						
27 27	P1-FL-3-3	6/27/2016	14:00	soll	1-802/1-402							PloH						
20 20	P2-FL-4-0	6/27/2016	13:20	soil	1-802/1-402			×	×	×	×							
ģ	P2-F1-4-0.5	8/27/2018	13:25	sol	1-802/1-402			××	×	×	×	×						
ηo	P2-FL-4-1	8/27/2016	13:30	sol	1-80z/1-40z							Hold						
Ŧ	P2-FL-4-3	6/27/2016	13:35	soll	1-802/1-402							Hold						
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Relinqui		Rudy	11		Rec	Received by: (Signature/	jnatúre/M		$\sum$		5/	$\frac{1}{2}$	FC1		Date: 061916		10 BJD	
Relinqui	Relinquished by: (Signature)	_	2		Rec	Received by: (Signature Artificatio		Mendow							Date:		Time:	
						/											06/02/14 Revision	Revision

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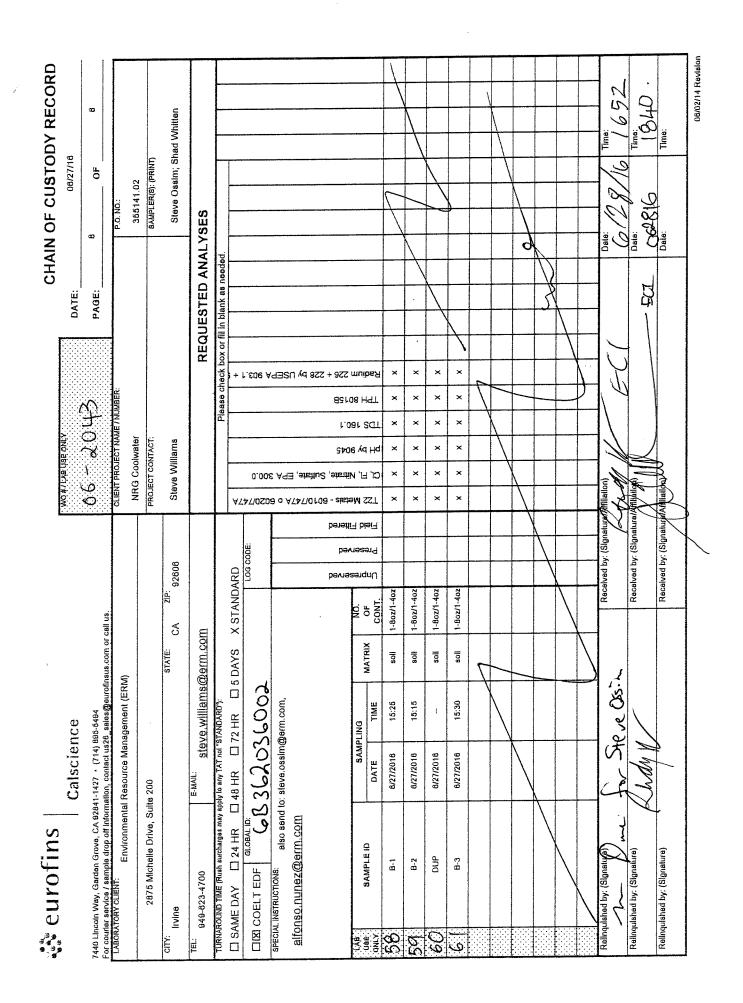
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•		Calscience	nce					r#om	No ash av1r# om	- NILY				DATE:		06/27/16	8		
7440 Lind For courts	140 Lincoln Way, Gardan Grova, CA 92841-1427 ~ (714) 895-5494 -or courtier service / semple droo off information. contect us28. settes@eurofinsus.com or cell us	. 92841-1427 • (714) Mormation: contact us:	895-5494 26 вырастон	naus.com or	r call us.			9 0 0	06-2043	7	$\mathbf{a}$			PAGE:		6 OF		8	
LABORA	TORY CLIENT: Environm	Environmental Resource Management (ERM)	nagement (ERN	Ś				CLIEN	CLIENT PROJECT NAME / NUMBER NRG Cootwater	r'NAME/1 ater	<b>UMBER</b>					P.O. NO.: 366111.03			
	2875 Michelle Drive, Sulte 200	Sulte 200						PROJE	PROJECT CONTACT:	CT:						SAMPLER(S): (PRINT)	6		
CITY:	Irvine			STATE:	CA ZIP:	92606		Ster	Steve Willams	ns						Steve Øssim; Shad Whitten	Shad Whith	L.	
TEL: E	949-623-4700	E-MAIL: Ste	steve.williams@erm.com	@erm.co	E								REQUE	REQUESTED ANALYSES	ANAL	YSES			
TURNAF	TURNAROUND TIME (Rush sucharges may apply to any TAT not "STANDARD"	IAY APPIY IO ANY TAT nol " TAR HID	i i i i i i i i i i i i i i i i i i i		V STANDADO			×		-	lease c	heck bo	x or fil In	Please check box or fill in blank as needed	eded.				Ι
			600			LOG CODE	DE	7 <u>47</u> (020	0-00			- L'EOG V							
special alfoi	special instructions: also sen alfonso nunez@erm.com	also send to: steve.ossim@erm.com, m.com	germ.com,					9 ° X/7	, EPA 3			/dasu /							
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LAB		S ME	S ANDI INIC		T NO.			new.			108	z w							
UBE GNLY	SAMPLE ID	DATE	TIME	MATRIX	OF CONT.	udu ()	isarq biəi			v SQT	нат	uibeA							
6	P3-FL-6-0	6/27/2016	11:30	soli	1-802/1-402			×	×	×	×	×							
f	P3-FL-5-0.5	6/27/2016	11:35	soll	1-802/1-402			×	×	×	×	×			<u> </u>				
	P3-FL-5-1	8/27/2016	11:40	soli	1-802/1-40Z						ļ		Hold					<u> </u>	
<u>6</u>	P3-FL-5-3	6/27/2016	11:45	soll	1-802/1-402								Hold						
цб	P4-FL-6-0	6/27/2016	11:00	solt	1-802/1-402			×	×	×	×	×							
47	P4-F1-6-0.5	8/27/2018	11:05	soll	1-802/1-402			×	×	×	×	×							
34	P4-FL-0-1	6/27/2018	11:10	sol	1-802/1-402					ļ			Hold		<u> </u>				
49	P4-FL-6-3	6/27/2016	11:15	soll	1-802/1-402								Hold						
										\									1
								5	$\uparrow$				Ð		<u> </u>		h		
Kelinq.	Relinquished by: (Signatio	for Steve	L 250 J		Rec	alved by:	Received by: (Signaturathyfilliallog		harr	Ì					Date:	6/28/16	Time	1652	
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Rallnqı	Relinquished by: (Signature)	/			Rec	yd bavle	Received by: (Sugnature) Affillation)	Affiliatio	(						2	(e:	Time:		
						K.											0	06/02/14 Revision	vision

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-	Calscience	oce					WO #/ LAB UBE ON	NO 360 6				DATE:		06/27/16	16	
7440 Lincoln Way, Garden Grove, CA 92841-1427 - (714) 895-5494 For contrier service / semula from off Information contact us28 selese	41-1427 • (714) E Mallori contact (182	895-5494 28 ธุตุครณิตาะกถึง	nsils com or c	an lia:		<u> </u>	g	06 - 20 43	$\overline{J}$			PAGE:		7 OF	8	
LABORATORY CLIENT: Environmental Resource Management (ERM)	Environmental Resource Management (ERM)	agement (ERN	(v				LIENT P	CLIENT PROJECT NAME / NUMBER	ME / NU	ABER:				P.0. NO.:		<u> </u>
2875 Michelle Drive, Suite 200	le 200						ROJECT	PROJECT CONTACT:						300141.UZ SAMPLER(S): (PRINT)	(II)	
CITY: Irvine			STATE:	CA ZIP:	92808		Steve	Steve Williams						Steve Ossim; Shad Whitten	Shad Whitten	
TEL: 949-923-4700	E-MAIL: Sto	steve.williams@erm.com	@erm.cor	ū							RE	REQUESTED ANÁLYSES	ANAL	YSES	a for the second se	Τ
TURIVAROUND TIME (Rush surgiaring) a sing spipily in any TAT not "STANDARD" CSAME DAY 024 HR 048 HR 028 HR 072 HR	r apply to any TAT not "6			X STANDARD	RD		×		Ple	ase che	ck box o	Please check box or fill in bienk as needed	needed.			1
OF					LOG CODE:						1.006 7					
SPECIAL INSTRUCTIONS: also send to	also send to: steve.ossim@erm.com,	Øerm.com,						<del>.</del>								
alfonso.nunez@erm.com					p≆ pə∧a	pered	74710108 o sia 		۲.		∩ Áq 822 + 922		12-2 - 1- 1- VIII 1- 1			
Ţ. Ţ.YĒ.	SAMPLING	oring		NO.	9293 				091	-08	т ШП					
UBE DAMPLE ID	DATE	TIME	MATRIX	OF CONT.				d Hq	sat		עפט					
50 P5-FL-7-0	6/27/2016	10:45	soll	1-802/1-402			×		×	×	×					
5 ( P6-FL-7-0.5	6/27/2016	10:50	soll	1-802/1-402			×	×	×	×	×					
50 P6-FL-7-1	6/27/2016	10:55	soli	1-802/1-402							Hold	q				
55 P5-FL-7-3	8/27/2016	11:00	soll	1-802/1-402							Hold	q				
SH P5-FL-8-0	6/27/2016	10:00	soli	1-80z/1-40z			×	×	×	×	×					
55 P6-FL-8-0.5	8/27/2016	10:05	soll	1-80z/1-40z			×	××	×	×	×					
56 P5-FL-8-1	8/27/2018	10:10	soll	1-80z/1-40z							Hold	10				
57 P6-FL-8-3	9/27/2018	10:15	soli	1-802/1-402							Hold	p				
	(						$\left  \right $	<u> </u>	$\square$							
				J					$\bigcup$	$\left  \right\rangle$	h					
کچ ا	Ser CS	CX;		Rece	Received by: (Signature/Affillation	nature/Afi	liation	1 als	M		5		Da	Date: 12 8 /16	Time: 1652	Γ
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															06/02/14 Revision	vision

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eurofin	15		WORK ORDER	NUMBER:	16-0	age 128	4.3 21.022 X 0/21
°is" ⊂urorna	Calcriance	SAMPLE RECEIPT				o	•••
OUT NT						1281	
CLIENT:						<u> </u>	
Thermometer ID Sample(s) Sample(s) Sample(s) rec	SC2A (CF: 0.0°C); T outside temperature o outside temperature o ceived at ambient tem	0°C, not frozen except sedim remperature (w/o CF): <u>2</u> criteria (PM/APM contacted by criteria but received on ice/chi perature; placed on ice for tra	5°C (w/ CF): <u>2</u> y:) illed on same day of			⊠ Samp ed by: _6	,
Ambient Temper	rature:						
	L: Present and Intact Present and Intact	□ Present but Not Intact □ Present but Not Intact	☑ Not Present ☑ Not Present	□ N/A □ N/A		ed by: <u>6</u> ed by: <u>1</u> 0	
COC document(	ly (COC) document(s) (s) received complete	received with samples e □ Matrix □ Number of co				No □ □	N/A
□ No analysi Sampler's name Sample containe Sample containe Proper containe Sufficient volum	is requested D Not re e indicated on COC er label(s) consistent v er(s) intact and in good rs for analyses request e/mass for analyses re	elinquished D No relinquished vith COC	ed date   □ No relin		विष्यु व ब		
Aqueous san □ pH □ Re Proper preserva Unpreserved	nples for certain analy sidual Chlorine Di ation chemical(s) noted aqueous sample(s) r	ses received within 15-minute ssolved Sulfide	e holding time I Oxygen				
Container(s) for □ Volatile Or	certain analysis free or rganics □ Dissolved	of headspace Gases (RSK-175) □ Dissol <sup>y</sup> <sup>-</sup> errous Iron (SM 3500) □ H	ved Oxygen (SM 45	00)			Ø
Tedlar™ bag(s)	free of condensation			••••••			
□ 125PBznna □ 500PB □ 1A Solid: □ 4ozCG Air: □ Tedlar™ Container: A = Ar	A □ VOAh □ VOAr □ 250AGB □ 250CG GB □ 1AGBna₂ □ 1 J ⊡ 8ozCGJ □ 16oz □ Canister □ Sorbe mber, B = Bottle, C = Cle	aa₂ □ 100PJ □ 100PJna₂ □ B □ 250CGBs □ 250PB □ AGBs □ 1PB □ 1PBna □ cCGJ □ Sleeve () □ E nt Tube □ PUF □ ear, E = Envelope, G = Glass, J = = HCl, n = HNO <sub>3</sub> , na = NaOH, na	□ 125AGB □ 125A □ 250PBn □ 500AG □ □ nCores <sup>®</sup> () □ <b>Other Matrix</b> ( = Jar, <b>P</b> = Plastic, and	B □ 500AG. □ ] TerraCores <sup>®</sup> ): □ Z = Ziploc/Res	GBp □ J □ 500 □ () ] sealable E	125PB AGJ <b>s</b> ] D Bag	
		$nna = Zn (CH_3CO_2)_2 + NaOH$			Review	ed by:	059

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eurofins work order NUMBER: 1	6-06	ge 121.0	f 122 セン
Calscience SAMPLE RECEIPT CHECKLIST co	OLER	OF	: 2
		28 1	
TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)         Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): _2_4_°C (w/ CF): _2_4_°C; □         □ Sample(s) outside temperature criteria (PM/APM contacted by:)         □ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling         □ Sample(s) received at ambient temperature; placed on ice for transport by courier         Ambient Temperature: □ Air □ Filter	Blank		e
CUSTODY SEAL: Cooler □ Present and Intact □ Present but Not Intact ☑ Not Present □ N/A Sample(s) □ Present and Intact □ Present but Not Intact ☑ Not Present □ N/A		d by: <u>6</u> d by: <u>10</u>	
SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	ø		
COC document(s) received complete			
□ Sampling date □ Sampling time □ Matrix □ Number of containers			
□ No analysis requested □ Not relinquished □ No relinquished date □ No relinquished time			_
Sampler's name indicated on COC			
Sample container label(s) consistent with COC	Ø		
Sample container(s) intact and in good condition			
Proper containers for analyses requested			
Sufficient volume/mass for analyses requested	ď		
Samples received within holding time	e		
Aqueous samples for certain analyses received within 15-minute holding time			
□ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen			Ø
Proper preservation chemical(s) noted on COC and/or sample container			
Unpreserved aqueous sample(s) received for certain analyses			
□ Volatile Organics □ Total Metals □ Dissolved Metals			
Container(s) for certain analysis free of headspace			ď
□ Volatile Organics □ Dissolved Gases (RSK-175) □ Dissolved Oxygen (SM 4500)			
□ Carbon Dioxide (SM 4500) □ Ferrous Iron (SM 3500) □ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation			e
CONTAINER TYPE: (Trip Blank Lot Numbe			)
Aqueous: VOA VOAh VOAha, 100PJ 100PJna, 125AGB 125AGB 125AGB		125PB	
Aqueous: □ VOA □ VOAh □ VOAna <sub>2</sub> □ 100PJ □ 100PJna <sub>2</sub> □ 125AGB □ 125AGBh □ 125AG □ 125PBznna □ 250AGB □ 250CGB □ 250CGBs □ 250PB □ 250PBn □ 500AGB □ 500AGJ	GBp 🗆	125PB AGJ <b>s</b>	
□ 125PBznna □ 250AGB □ 250CGB □ 250CGBs □ 250PB □ 250PBn □ 500AGB □ 500AGJ □ 500PB □ 1AGB □ 1AGBna <sub>2</sub> □ 1AGBs □ 1PB □ 1PBna □ □ □	GBp □ □ 500/ □	4GJ <b>s</b>	_
□ 125PBznna □ 250AGB □ 250CGB □ 250CGBs □ 250PB □ 250PBn □ 500AGB □ 500AGJ □ 500PB □ 1AGB □ 1AGBna₂ □ 1AGBs □ 1PB □ 1PBna □	GBp □ □ 5004 □	AGJs 	
□ 125PBznna □ 250AGB □ 250CGB □ 250CGBs □ 250PB □ 250PBn □ 500AGB □ 500AGJ □ 500PB □ 1AGB □ 1AGBna₂ □ 1AGBs □ 1PB □ 1PBna □	GBp □ □ 5004 □	AGJs 	
□ 125PBznna □ 250AGB □ 250CGB □ 250CGBs □ 250PB □ 250PBn □ 500AGB □ 500AGB □ 500AGJ □ 500PB □ 1AGB □ 1AGBna₂ □ 1AGBs □ 1PB □ 1PBna □	GBp [] 500/ 	AGJs 	
□ 125PBznna □ 250AGB □ 250CGB □ 250CGBs □ 250PB □ 250PBn □ 500AGB □ 500AGJ □ 500PB □ 1AGB □ 1AGBna₂ □ 1AGBs □ 1PB □ 1PBna □	GBp 500/ 50	AGJ <b>s</b>  □ ag	

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WORK ORDER NUMBER: 16-06- 2043

Calscience

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SAMPLE ANOMALY REPORT

## DATE: 06 / 28 / 2016

SAMPLES, CONTAINERS, AND LABELS:	Comments
□ Sample(s) NOT RECEIVED but listed on COC	
□ Sample(s) received but NOT LISTED on COC	
□ Holding time expired (list client or ECI sample ID and analysis)	
□ Insufficient sample amount for requested analysis (list analysis)	
Improper container(s) used (list analysis)	
□ Improper preservative used (list analysis)	7X
□ No preservative noted on COC or label (list analysis and notify lab)	(-16) Received 1 OFZ containers
□ Sample container(s) not labeled	(40265) labeled as
□ Client sample label(s) illegible (list container type and analysis)	PI-2
☑ Client sample label(s) do not match COC (comment)	(Date/Time matched)
□ Project information	
E Client sample ID	(-22) Received 10F2 container
Sampling date and/or time	(402CGJ) labeled as
□ Number of container(s)	PI-2 P2-1
□ Requested analysis	16 (Date/Time matched)
Sample container(s) compromised (comment)	
Broken	(-32) Labeled as P1-FL-2-
□ Water present in sample container	(Date/Time matched)
□ Air sample container(s) compromised (comment)	
□ Flat	Collection time Per label
Very low in volume	(-17)9:10 $(-18)9:15$
Leaking (not transferred; duplicate bag submitted)	(-19)9:20 $(-20)9:25$
□ Leaking (transferred into ECI Tedlar™ bags*)	
□ Leaking (transferred into client's Tedlar™ bags*)	
* Transferred at client's request.	
MISCELLANEOUS: (Describe)	Comments

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

Comments: \_

\*\* Record the total number of containers (i.e., vials or bottles) for the affected sample.

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis
	······		
	<u></u>		

Reported by:  $\frac{1053}{1059}$ 

# 🔅 eurofins

## Calscience

Supplemental Report 2

Additional requested analyses are reported as a stand-alone report.

WORK ORDER NUMBER: 16-06-2043

## The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For Client: ERM-WEST Client Project Name: NRG Coolwater Attention: Steve Williams 2875 Michelle Dr. Suite 200 Irvine, CA 92606-1021

Virender RPadel

Approved for release on 09/07/2016 by: Virendra Patel Project Manager

ResultLink >

Email your PM >

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

7440 Lincoln Way, Garden Grove, CA 92841-1432 \* TEL: (714) 895-5494 \* FAX: (714) 894-7501 \* www.calscience.com

CA ELAP ID: 2944 | ACLASS DoD-ELAP ID: ADE-1864 (ISO/IEC 17025:2005) | CSDLAC ID: 10109

# Calscience

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Work Order: 16-06-2043

Page 1 of 1

## **Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 06/28/16. They were assigned to Work Order 16-06-2043.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

#### Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

### **Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

## Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

## **Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



Client: ERM-WEST		Work Order:		16-06-2043
	Dr., Suite 200	Project Name:		NRG Coolwater
Irvine, CA 926		PO Number:		355141.02
		Date/Time Received:		06/28/16 18:40
		Number of Containers:		127
Attn: Steve William	S			
Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
P5-1	16-06-2043-1	06/27/16 07:25	2	Solid
P5-2	16-06-2043-2	06/27/16 07:30	2	Solid
P5-3	16-06-2043-3	06/27/16 07:35	2	Solid

P5-1	16-06-2043-1	06/27/16 07:25	2	Solid
P5-2	16-06-2043-2	06/27/16 07:30	2	Solid
P5-3	16-06-2043-3	06/27/16 07:35	2	Solid
P5-4	16-06-2043-4	06/27/16 07:40	2	Solid
P5-5	16-06-2043-5	06/27/16 07:45	2	Solid
P4-1	16-06-2043-6	06/27/16 08:15	2	Solid
P4-2	16-06-2043-7	06/27/16 08:20	2	Solid
P4-3	16-06-2043-8	06/27/16 08:25	2	Solid
P4-4	16-06-2043-9	06/27/16 08:30	2	Solid
P4-5	16-06-2043-10	06/27/16 08:35	2	Solid
P3-1	16-06-2043-11	06/27/16 08:20	2	Solid
P3-2	16-06-2043-12	06/27/16 08:25	2	Solid
P3-3	16-06-2043-13	06/27/16 08:40	2	Solid
P3-4	16-06-2043-14	06/27/16 08:30	2	Solid
P3-5	16-06-2043-15	06/27/16 08:35	2	Solid
P2-1	16-06-2043-16	06/27/16 09:05	2	Solid
P2-2	16-06-2043-17	06/27/16 09:10	2	Solid
P2-3	16-06-2043-18	06/27/16 09:15	2	Solid
P2-4	16-06-2043-19	06/27/16 09:20	2	Solid
P2-5	16-06-2043-20	06/27/16 09:25	2	Solid
P1-1	16-06-2043-21	06/27/16 09:00	2	Solid
P1-2	16-06-2043-22	06/27/16 09:05	2	Solid
P1-3	16-06-2043-23	06/27/16 09:10	2	Solid
P1-4	16-06-2043-24	06/27/16 09:15	2	Solid
P1-5	16-06-2043-25	06/27/16 09:20	2	Solid
P1-FL-1-0	16-06-2043-26	06/27/16 14:40	2	Solid
P1-FL-1-0.5	16-06-2043-27	06/27/16 14:45	2	Solid
P1-FL-1-1	16-06-2043-28	06/27/16 14:50	2	Solid
P1-FL-1-3	16-06-2043-29	06/27/16 14:55	2	Solid
P1-FL-2-0	16-06-2043-30	06/27/16 14:15	2	Solid
P1-FL-2-0.5	16-06-2043-31	06/27/16 14:20	2	Solid
P1-FL-2-1	16-06-2043-32	06/27/16 14:25	2	Solid
P1-FL-2-3	16-06-2043-33	06/27/16 14:30	2	Solid
P1-FL-3-0	16-06-2043-34	06/27/16 13:45	2	Solid
P1-FL-3-0.5	16-06-2043-35	06/27/16 13:50	2	Solid
P1-FL-3-1	16-06-2043-36	06/27/16 13:55	2	Solid
P1-FL-3-3	16-06-2043-37	06/27/16 14:00	2	Solid
P2-FL-4.0	16-06-2043-38	06/27/16 13:20	2	Solid
P2-FL-4-0.5	16-06-2043-39	06/27/16 13:25	2	Solid
P2-FL-4-1	16-06-2043-40	06/27/16 13:30	2	Solid
P2-FL-4-3	16-06-2043-41	06/27/16 13:35	2	Solid
P3-FL-5-0	16-06-2043-42	06/27/16 11:30	2	Solid



Client:	ERM-WEST	Work Order:	16-06-2043
	2875 Michelle Dr., Suite 200	Project Name:	NRG Coolwater
	Irvine, CA 92606-1021	PO Number:	355141.02
		Date/Time Received:	06/28/16 18:40
		Number of Containers:	127
Attn:	Steve Williams		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
P3-FL-5-0.5	16-06-2043-43	06/27/16 11:35	2	Solid
P3-FL-5-1	16-06-2043-44	06/27/16 11:40	2	Solid
P3-FL-5-3	16-06-2043-45	06/27/16 11:45	2	Solid
P4-FL-6-0	16-06-2043-46	06/27/16 11:00	2	Solid
P4-FL-6-0.5	16-06-2043-47	06/27/16 11:05	2	Solid
P4-FL-6-1	16-06-2043-48	06/27/16 11:10	2	Solid
P4-FL-6-3	16-06-2043-49	06/27/16 11:15	2	Solid
P5-FL-7-0	16-06-2043-50	06/27/16 10:45	2	Solid
P5-FL-7-0.5	16-06-2043-51	06/27/16 10:50	2	Solid
P5-FL-7-1	16-06-2043-52	06/27/16 10:55	2	Solid
P5-FL-7-3	16-06-2043-53	06/27/16 11:00	2	Solid
P5-FL-8-0	16-06-2043-54	06/27/16 10:00	2	Solid
P5-FL-8-0.5	16-06-2043-55	06/27/16 10:05	2	Solid
P5-FL-8-1	16-06-2043-56	06/27/16 10:10	2	Solid
P5-FL-8-3	16-06-2043-57	06/27/16 10:15	2	Solid
B-1	16-06-2043-58	06/27/16 15:25	2	Solid
B-2	16-06-2043-59	06/27/16 15:15	2	Solid
DUP	16-06-2043-60	06/27/16 00:00	2	Solid
B-3	16-06-2043-61	06/27/16 15:30	2	Solid
P5	16-06-2043-62	06/27/16 00:00	1	Solid
P4	16-06-2043-63	06/27/16 00:00	1	Solid
P3	16-06-2043-64	06/27/16 00:00	1	Solid
P2	16-06-2043-65	06/27/16 00:00	1	Solid
P1	16-06-2043-66	06/27/16 00:00	1	Solid



## **Detections Summary**

Client:	ERM-WEST 2875 Michelle Dr., Suite Irvine, CA 92606-1021	200		Work Ord Project N Received	ame:	16-06-2043 NRG Coolwater 06/28/16	
Attn:	Steve Williams						Page 1 of 1
Client Sa	ampleID						
Analy	<u>yte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	Extraction
P3-FL-5-	0 (16-06-2043-42)						
Arser	nic	0.199		0.150	mg/L	EPA 6010B	T22.11.5.All DI
P3-FL-5-	0.5 (16-06-2043-43)						
Arser	nic	0.176		0.150	mg/L	EPA 6010B	T22.11.5.All DI
P5-FL-7-	0 (16-06-2043-50)						
Seler	nium	0.549		0.150	mg/L	EPA 6010B	T22.11.5.All DI
DUP (16-	-06-2043-60)						
Seler	nium	0.489		0.150	mg/L	EPA 6010B	T22.11.5.All DI

Subcontracted analyses, if any, are not included in this summary.

\* MDL is shown



ERM-WEST			Date Re	ceived:			06/28/16
2875 Michelle Dr., Suite 200			Work O	rder:			16-06-2043
Irvine, CA 92606-1021			Prepara	tion:		Ţ	Г22.11.5.All DI
			Method:				EPA 6010B
			Units:				mg/L
Project: NRG Coolwater						Pa	age 1 of 3
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P3-FL-5-0	16-06-2043-42-A	06/27/16 11:30	Solid	ICP 7300	08/30/16	09/02/16 15:58	160901LA5
Parameter		Result		RL	DF	Qua	alifiers
Arsenic		0.199		0.150	1.00		
P3-FL-5-0.5	16-06-2043-43-A	06/27/16 11:35	Solid	ICP 7300	08/30/16	09/02/16 16:01	160901LA5
Parameter		Result		RL	DF	Qua	alifiers
Arsenic		0.176		0.150	1.00		
P4-FL-6-0	16-06-2043-46-A	06/27/16 11:00	Solid	ICP 7300	08/30/16	09/02/16 16:03	160901LA5
Parameter		Result		RL	DF	Qua	alifiers
Arsenic		ND		0.150	1.00		
P4-FL-6-0.5	16-06-2043-47-A	06/27/16 11:05	Solid	ICP 7300	08/30/16	09/02/16 16:04	160901LA5
Parameter		Result		RL	DF	Qua	alifiers
Arsenic		ND		0.150	1.00		
P5-FL-7-0	16-06-2043-50-A	06/27/16 10:45	Solid	ICP 7300	08/30/16	09/02/16 16:05	160901LA5
Parameter		<u>Result</u>		<u>RL</u>	DF	Qua	<u>alifiers</u>
Arsenic		ND		0.150	1.00		
Selenium		0.549		0.150	1.00		
P5-FL-7-0.5	16-06-2043-51-A	06/27/16 10:50	Solid	ICP 7300	08/30/16	09/02/16 16:06	160901LA5
Parameter		<u>Result</u>		<u>RL</u>	DF	Qua	alifiers
Arsenic		ND		0.150	1.00		
DUP	16-06-2043-60-A	06/27/16 00:00	Solid	ICP 7300	08/30/16	09/02/16 16:10	160901LA5
Parameter		Result		RL	DF	Qua	alifiers
Arsenic		ND		0.150	1.00		
Selenium		0.489		0.150	1.00		



ERM-WEST			Date Recei	ved:			06/28/16
2875 Michelle Dr., Suite 200			Work Orde	r:			16-06-2043
Irvine, CA 92606-1021			Preparation	ו:		T	22.11.5.All DI
			Method:				EPA 6010B
			Units:				mg/L
Project: NRG Coolwater						Pa	age 2 of 3
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-05-006-8611	N/A	Aqueous	ICP 7300	08/30/16	09/02/16 15:06	160901LA5
Parameter		Result	RL	-	DF	Qua	alifiers
Arsenic		ND	0.1	150	1.00		
Selenium		ND	0.1	150	1.00		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



ERM-WEST				Date F	Received	:				06/28/16
2875 Michelle Dr., Suite 200				Work (	Order:				16	6-06-2043
Irvine, CA 92606-1021				Prepa	ation:				T22.1	1.5.All DI
				Metho	d:				El	PA 6010B
Project: NRG Coolwater									Page 1	of 2
Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Bat	ch Number
P3-FL-5-0	Sample		Solid	ICP	7300	08/30/16	09/02/16	15:58	160901SA5	
P3-FL-5-0	Matrix Spike		Solid	ICP	7300	08/30/16	09/02/16	15:59	160901SA5	
P3-FL-5-0	Matrix Spike	Duplicate	Solid	ICP	7300	08/30/16	09/02/16	16:00	160901SA5	
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> <u>%Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	Qualifiers
Arsenic	0.1986	5.000	5.322	102	5.528	107	75-125	4	0-20	
Selenium	0.1805	5.000	4.909	95	5.193	100	75-125	6	0-20	

RPD: Relative Percent Difference. CL: Control Limits



ERM-WEST	Date Received:	06/28/16
2875 Michelle Dr., Suite 200	Work Order:	16-06-2043
Irvine, CA 92606-1021	Preparation:	T22.11.5.All DI
	Method:	EPA 6010B
Project: NRG Coolwater		Page 1 of 2

Flojeci.	NING	Coolwater	

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed LCS	Batch Number
097-05-006-8611	LCS	Aqueous	ICP 7300	08/30/16	09/02/16 15:07 1609	01LA5
Parameter		Spike Added	Conc. Recove	ered LCS %Red	<u>. %Rec. CL</u>	Qualifiers
Arsenic		5.000	4.886	98	80-120	
Selenium		5.000	4.838	97	80-120	

RPD: Relative Percent Difference. CL: Control Limits

Page 1 of 1

#### Calscience

#### Work Order: 16-06-2043

**Glossary of Terms and Qualifiers** 

	5
<b>Qualifiers</b>	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
В	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
Е	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
Х	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

### Virendra Patel

From: Sent: To: Cc: Subject: Steve Williams <Steve.Williams@erm.com> Tuesday, August 30, 2016 10:29 AM Virendra Patel Erick Ovalle RE: Coolwater Additional Analysis.

Yes, that is correct.

Steve Williams PG, CHG Partner

ERM 2875 Michelle Dr. Suite 200 Irvine, California 92606 Cell: 949-294-0835 Office Direct: 949-623-4674

<u>Steve.williams@erm.com</u> Visit us at <u>www.erm.com</u>

Office main: 949-623-4700

From: Virendra Patel [mailto:VirendraPatel@eurofinsUS.com]
Sent: Tuesday, August 30, 2016 10:27 AM
To: Steve Williams
Cc: Erick Ovalle
Subject: RE: Coolwater Additional Analysis.

Steve,

We don't have a sample with an ID "DUP-P5-FL-7-0" as you have listed below– We do have a sample with an ID of "Dup" – this is the same sample, correct?

Please confirm. Thank you.

Best Regards,

Virendra Patel Project Manager

Eurofins Calscience, Inc. 7440 Lincoln Way Garden Grove, CA 92841 USA P: +1 714 895 5494 F: +1 714 894 7501

Email: <u>virendrapatel@eurofinsUS.com</u> Website: <u>www.eurofinsUS.com/Calscience</u>

1

From: Steve Williams [mailto:Steve.Williams@erm.com] Sent: Tuesday, August 30, 2016 10:13 AM To: Virendra Patel Subject: RE: Coolwater Additional Analysis.

Virendra, please also run STLC DI for Selenium on the

P5-FL-7-0 DUP-P5-FL-7-0

Steve Williams PG, CHG Partner

ERM 2875 Michelle Dr. Suite 200 Irvine, California 92606 Cell: 949-294-0835 Office Direct: 949-623-4674 Office main: 949-623-4700

<u>Steve.williams@erm.com</u> Visit us at <u>www.erm.com</u>

From: Steve Williams Sent: Monday, August 29, 2016 5:02 PM To: 'Virendra Patel' Subject: Coolwater Additional Analysis.

Virendra, please run the following samples for Arsenic - STLC DI method.

P3-FL-5-0

P3-FL-5-0.5

P4-FL-6-0

P4-FL-6-0.5

P5-FL-7-0

DUP (P5-FL-7-0)

P5-FL-7-0.5

Steve Williams PG, CHG Partner

ERM 2875 Michelle Dr. Suite 200 Irvine, California 92606 Cell: 949-294-0835

#### Office Direct: 949-623-4674 Office main: 949-623-4700

<u>Steve.williams@erm.com</u> Visit us at <u>www.erm.com</u>

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Please visit ERM's web site: http://www.erm.com

## Virendra Patel

From: Sent:	Steve Williams <steve.williams@erm.com> Monday, July 25, 2016 4:26 PM</steve.williams@erm.com>
То:	Steve Ossim; Virendra Patel
Cc:	Alfonso Nunez
Subject:	RE: NRG Coolwater Additional Analyses

Virendra, please proceed.

Please also add title 22 metals 6010/6020 and mercury to sample P1-FL-1-1 and P1-FL-1-3

Steve Williams PG, CHG Partner

ERM 2875 Michelle Dr. Suite 200 Irvine, California 92606 Cell: 949-294-0835 Office Direct: 949-623-4674 Office main: 949-623-4700

Steve.williams@erm.com Visit us at www.erm.com

From: Steve Ossim
Sent: Monday, July 25, 2016 11:28 AM
To: Virendra Patel
Cc: Steve Williams; Alfonso Nunez
Subject: NRG Coolwater Additional Analyses

Hello Virendra,

Per our conversation earlier, we'd like to run analyses in accordance to the attached COC on samples that were previously held. We are aware that we are outside the hold time for TPH, but would like to run this anyway.

All new analyses are denoted in red ink with a circled "X". Please advise with any potential questions or concerns.

Sincerely appreciated, Steve

ERM 2875 Michelle Drive, Suite 200 Irvine, CA 92606

Tel: +949-623-4700 4707 (direct line) Mobile: +317-509-5989

steve.ossim@erm.com www.erm.com

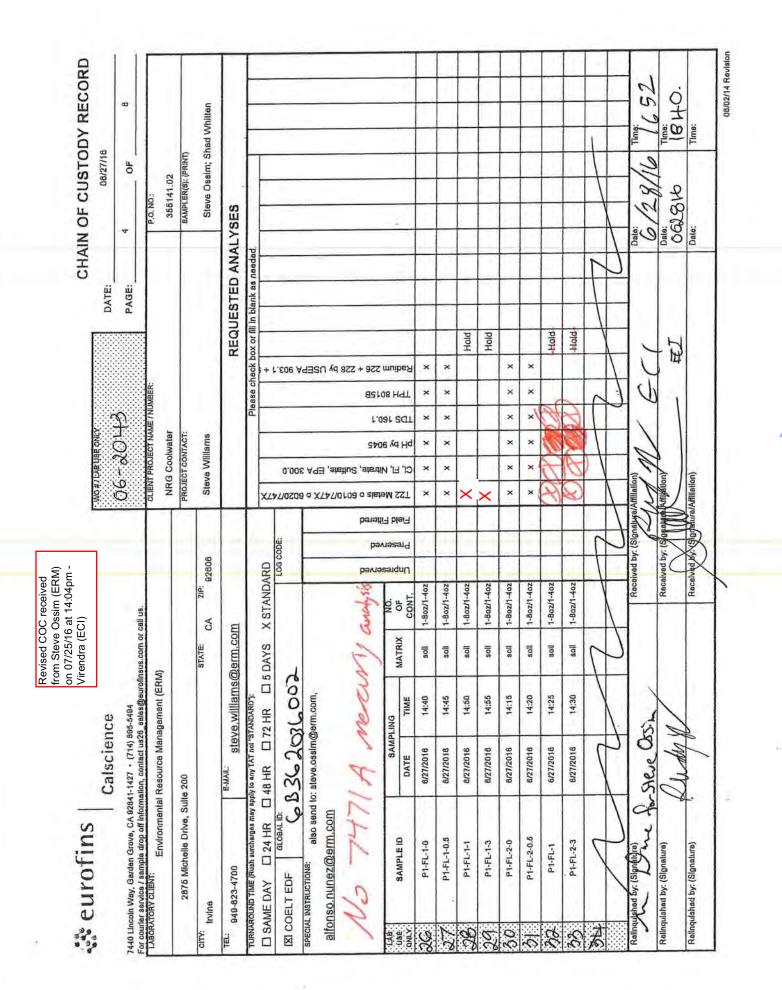
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Please visit ERM's web site: <u>http://www.erm.com</u>

Notify us here to report this email as spam.

Calscience		on 07/25/16 at 14:04pm - Virendra (ECI)				5		G	DATE:	06/27/16	18
7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494 For courter service / semple drop off information, contact us28 sales@eurofinsus.com or cell us.	94 se@eurofinsus.com c	or cell us.			R		5	2	PAGE:	1 0F	æ
Environmental Resource Management (ERM)	lent (ERM)			CLIENT	CLIENT PROJECT NAME / NUMBER	AME / NUA	HER:			P.O. NO.:	
2876 Michelle Drive, Suite 200				PROJEC	PROJECT CONTACT:					SAMPLER(S): (PRINT)	(L)
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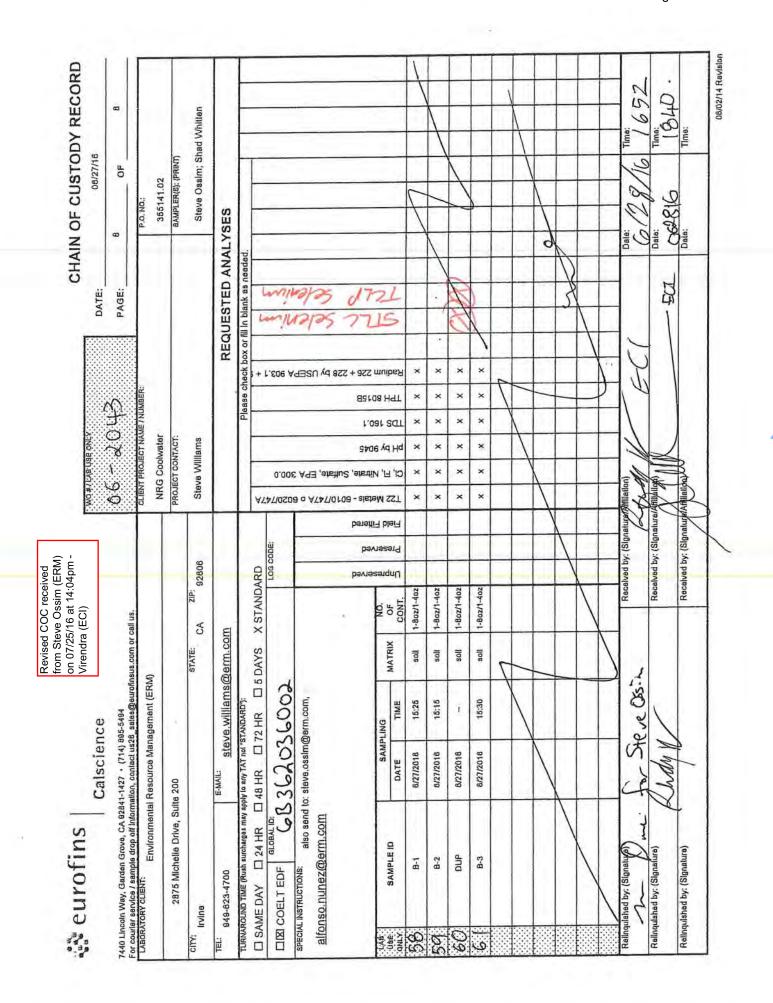
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### Virendra Patel

From:	Alfonso Nunez <alfonso.nunez@erm.com></alfonso.nunez@erm.com>
Sent:	Wednesday, June 29, 2016 12:28 PM
To:	Steve Williams; Virendra Patel; Steve Ossim
Subject:	RE: NRG Coolwater 16-06-2043 <response requested=""></response>

Sorry Virendra,

The change in labs, led to some mis-steps.

#### SAMPLE ANALYIS

The proposed sample analysis is based on the constituents of concern listed in the WDR; the requirements listed in Hazardous and Solid Waste Management System Disposal of Coal Combustion Residuals from Electric Utilities (U.S. Environmental Protection Agency [USEPA], 2014); and total petroleum hydrocarbons based on operation equipment. The list of analysis and analytical methods are summarized below.

- California Title 22 metals, boron, calcium, lithium, magnesium, potassium, and sodium by USEPA Methods 6010 and 7471;
- Chloride, fluoride, nitrate, and sulfate by USEPA 300.0;
- pH by 9045;
- Total dissolved solids by USEPA Method 106.1;
- Total petroleum hydrocarbons as diesel and as motor oil by USEPA Method 8015b; and
- Radium 226 and 228 by USEPA 903.1 and USEPA 904.0

From: Steve Williams Sent: Wednesday, June 29, 2016 11:17 AM To: Virendra Patel; Steve Ossim; Alfonso Nunez Subject: RE: NRG Coolwater -- 16-06-2043 <response requested>

Alf, please QC and verify chain with the work plan.

Steve Williams PG, CHG Partner

ERM

2875 Michelle Dr. Suite 200 Irvine, California 92606 Cell: 949-294-0835 Office Direct: 949-623-4674 Office main: 949-623-4700 From: Virendra Patel [mailto:VirendraPatel@eurofinsUS.com] Sent: Wednesday, June 29, 2016 11:16 AM To: Steve Ossim; Alfonso Nunez Cc: Steve Williams Subject: RE: NRG Coolwater -- 16-06-2043 <response requested>

The COCs didn't the following:

T22 is to include – Calcium, Lithium, Magnesium, Potassium, Sodium? TPH is to report TPH diesel and Motor Oil?

Please advise. Thanks!

Best Regards,

Virendra Patel Project Manager

Eurofins Calscience, Inc. 7440 Lincoln Way Garden Grove, CA 92841 USA P: +1 714 895 5494 F: +1 714 894 7501

Email: <u>virendrapatel@eurofinsUS.com</u> Website: <u>www.eurofinsUS.com/Calscience</u>

From: Steve Ossim [mailto:Steve.Ossim@erm.com] Sent: Wednesday, June 29, 2016 10:25 AM To: Alfonso Nunez; Virendra Patel Cc: Steve Williams Subject: RE: NRG Coolwater -- 16-06-2043 <response requested>

For the first 4 items, the correct sample times are those written on the labels. P2-2 is 9:10am, P2-3 is 9:15am, P2-4 is 9:20am, P2-5 is 9:25am.

For the last item the chain should read P1-FL-2-1. Label is correct.

From: Alfonso Nunez Sent: Wednesday, June 29, 2016 10:14 AM To: Steve Ossim Cc: Steve Williams Subject: FW: NRG Coolwater -- 16-06-2043 <response requested> Importance: High

Steve o Can you help? Lets chat From: Virendra Patel [mailto:VirendraPatel@eurofinsUS.com] Sent: Wednesday, June 29, 2016 10:03 AM To: Alfonso Nunez; Steve Williams Cc: Erick Ovalle Subject: NRG Coolwater -- 16-06-2043 <response requested> Importance: High

Alfonso/Steve,

Good Morning. For the subject project COCs, please provide clarification on the following items:

Sample #17 – P2-2, COC has collection time of 09:15am – sample label has 09:10am – What is correct collection time? Sample #18 – P2-3, COC has collection time of 09:20am – sample label has 09:15am – What is correct collection time? Sample #19 – P2-4, COC has collection time of 09:25am – sample label has 09:20am – What is correct collection time? Sample #20 – P2-5, COC has collection time of 09:30am – sample label has 09:25am – What is correct collection time? Sample #32 – COC has sample ID of P1-FL-1 – sample label has ID of P1-FL-2-1? What is correct sample ID?

Best Regards,

Virendra Patel Project Manager

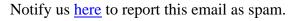
Eurofins Calscience, Inc. 7440 Lincoln Way Garden Grove, CA 92841 USA P: +1 714 895 5494 F: +1 714 894 7501

Email: <u>virendrapatel@eurofinsUS.com</u> Website: www.eurofinsUS.com/Calscience

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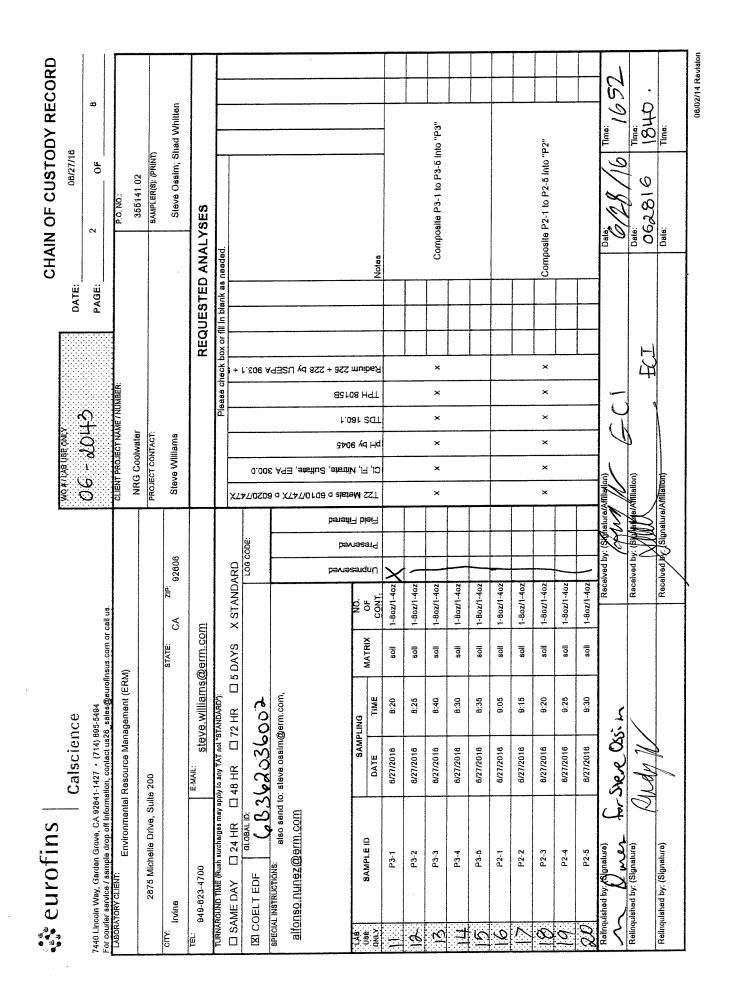
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P6-1	6/27/2016	7:25	soli	1-802/1-402	×										
2 2	6/27/2016	7:30	soll	1-802/1-40Z						L				<u> </u>	
(3) P6-3	6/27/2016	7:35	soll	1-80z/1-40z		×	×	×	×	×			Composite P5-1 to P5-5 into "P5"	Into "P5"	
P6-4	6/27/2016	7:40	soll	1-Boz/1-4oz						l	 				
5 P6-6	6/27/2016	7:45	solf	1-802/1-402						1					
6 P4-1	8/27/2018	8:15	soll	1-802/1-402											
Z P4-2	8/27/2016	8:20	Boil	1-802/1-402						L					
Ø 14-3	6/27/2018	8:25	soli	1-80z/1-40z		×	×	× 	× ×	×		ů	Composite P4-1 to P4-5 Into "P4"	"p4"	
P4-4	8/27/2018	8:30	Boll	1-80z/1-40z					•	<u>I</u>				<u></u>	
[(U] P4-5	6/27/2016	8:35	soli	1-Boz/1-4oz	-					L					
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7440 Lincoln Way, Gerden Grove, CA 92841-1427 • (714) 895-5494 For courter service / service drove of Information contectue28 setse®eurofinance.com	341-1427 • (714) methor contect us	. 895-5494 28. seles@eurof	To the other	er del ne			90-90	Ę	ŋ			PAGE:		3 OF		8
LABORATORY CLIENT: Environments	Environmental Resource Management (ERM)	inagement (ER	(W)	.00			oclent Pi	CLIENT PROJECT NAME / NUMBER	ME / NUM	BER:				P.O. NO.:		
2875 Michelle Drive, Sulte 200	lite 200						PROJECT	PROJECT CONTACT:						355141.02 SAMPLER(S): (PRINT)	<u>r</u>	
citty: Irvine			STATE:	CA ZIP:	92608		Sleve	Steve Williams						Steve Ossim; Shad Whitten	Shad Whitter	
TEL: 949-623-4700	E-MAIL: SIG	steve.williams@erm.com	@erm.col	E							REQ	UESTE	REQUESTED ANALYSES	rses		
TURIVAROUND TIME (Rush suchargas may apply to any TAT not "STANDARD").	/ apply to any TAT not		5 DAYS	X STANDARD	ARD		   x2		Plea	se check	k box or f	Piease check box or fill in blank as needed.	s needed.			
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alfonso.nunez@erm.com							(7.47\0108 o s 			ie + 528 pA A						
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UBE SAMPLE ID	DATE	TIME	MATRIX	0F CONT	nqnU Resr9	Field		Yd Ho	sa	HGT HGT			Note			
3. P1-1	6/27/2016	00:6	soll	1-Boz/1-4oz			<u>'</u>	+	-	8		_			-	
2-14	6/27/2016	9:05	Boll	1-80z/1-40z												
6-14 SS	8/27/2016	8:10	llos	1-Boz/1-4oz			× ×	×	×	×			Comp	Composite P1-1 to P1-5 into "P1"	into "P1"	
24 P1-4	6/27/2018	. 9:15	soll	1-80z/1-40z												
25 P1-5	8/27/2016	9:20	Boll	1-80z/1-40z												
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y, Garden Gro ce / sample dro	we, CA 92841- op off Informati	-1427 • (714) 8 Ion, contact us20	7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5484 For courier service / sample drop of information, contact us28, sales@eurofinsus.com or call us	nsus.com or	call us.			2 S	Ub - aC f	Ĵ.	~			PAGE:	4	OF		8
LIENT: Env	√ronmental F	tesource Man	Environmental Resource Management (ERM)	(iv				CLIEN	CLIENT PROJECT NAME / NUMBER NRG: Coolwatar	t NAME /	NUMBER				. н 	P.O. NO.: 366141 02		
2875 Michelle Drive, Sulte 200	Drive, Sulte	200						PROJ	PROJECT CONTACT:	ACT:					, A8	SAMPLER(S): (PRINT)		
				STATE:	CA ZIP:	92606		Ste	Steve Williams	ams						Steve Ossim; Shad Whitten	had Whitte	
949-623-4700		E-MAIL: Stev	steve.williams@erm.com	@erm.col	ū								REQUE	STED A	REQUESTED ANALYSES	S		
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special. INSTRUCTIONS: also sen alfonso. nunez@erm. com	also send to: <u>n.com</u>	also send to: steve.ossim@erm.com, m.com	@erm.com,					9 ° X7470	ate, EPA 3			ASU va						
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SAMPLE ID		SAMPLING	PLING	MATRIX	NO. OF	esaudur	reserve	iam 221		DS 160	.08 HdJ	, muibe;					<u>,</u>	
P1-FL-1-0		6/27/2016	14:40	soll	1-Boz/1-4oz		+	. ×	+		+	×			<u> </u>			
P1-FL-1-0.5	2	6/27/2016	14:45	solt	1-802/1-402			×	×	×	×	×						
P1-FL-1-1		6/27/2016	14:50	sol	1-802/1-402								Hold					
P1-FL-1-3		6/27/2016	14:55	soll	1-802/1-402						 		Hold					
P1-FL-2-0		6/27/2016	14:15	soll	1-802/1-402			×	×	×	×	×						
P1-FL-2-0.6	.6	6/27/2016	14:20	soll	1-802/1-402			×	×	×	×	×						
P1-FL-1		6/27/2018	14:25	soll	1-802/1-402								Hold					
P1-FL-2-3		6/27/2016	14:30	soll	1-802/1-402			,					Hold					
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LABORATORY CLIENT: Environmental Resource Management (ERM)	onmental Res	source Mane	Environmental Resource Management (ERM)	()			1	SCIENT PE	CLIENT PROJECT NAME / NUMBER NEO Controlor	WE / NUN	ABER:				P.O. NO.:			·
2875 Michelle Drive, Suite 200	rive, Sulte 20	0						PROJECT	PROJECT CONTACT:						SAMPLER(S): (PRINT)	(TN		
airy: Irvine				STATE:	CA ZIP:	92606	1	Steve	Steve Williams						Steve Ossim; Shad Whitten	Shad V	Vhilten	
TEL: 949-623-4700	24 11 11	E-MAIL: Stev	steve.williams@erm.c	@erm.com	E		<u> </u>					RE	REQUESTED ANALYSES	ANAL	YSES			
TURNAROUND TIME (Rush suichairges may apply to any TAT not "STANDARD") T SAME DAY TJ 24 LID T 46 LID TJ 77 LID	Jes mey apply to any TAT ID [7] A G LID	IS. Jou TAT Vol "SI		2770 2	V CTANDADO					ejd	ase che	ok box o	Please check box or fill In blank as needed	eded.				<del></del>
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alfonso.nunez@erm.com	com				<u>, , , , , , , , , , , , , , , , , , , </u>	pa pana	ered	ais o 6010/747) Tate, Suifate, E		۲.		50 kg 822 + 922						
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UNLY SAMPLE ID	<u></u>	DATE	TIME	MATRIX	OF CONT.		년 년		d Hq	sar		Nadi						
211 P1-FL-3-0	6	6/27/2018	13:45	soli	1-8oz/1-4oz			×	×	×	×	×						1
3.5 P1-FL-3-0.5	6	6/27/2018	13:50	soli	1-802/1-40Z			×	×	×	×	×						1
26 P1-FL-3-1	8	8/27/2018	13:55	soll	1-802/1-402							Hold	q					
57 P1-F1-3-3	9	6/27/2016	14:00	soli	1-802/1-402							Hold	q					
36 P2-FL-4-0	f	8/27/2016	13:20	soll	1-802/1-402			×	××	×	×	×						
29 P2-FL-4-0.5		6/27/2016	13:25	ilos	1-802/1-402			×	×	×	×	×						
110 P2-F1-4-1		8/27/2016	13:30	soll	1-80z/1-40z							Hold	p					
P2-F1-4-3	-	6/27/2016	13:35	soll	1-802/1-402							Hold	p					
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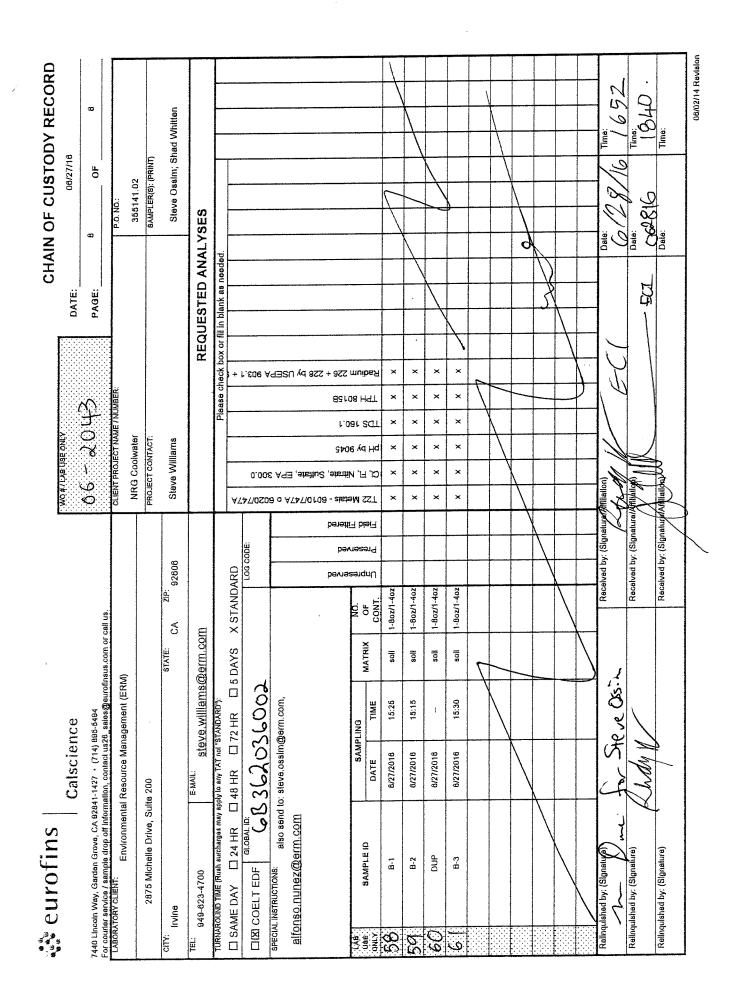
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	2876 Michelle Drive, Sulte 200	Sulte 200						PROJ	PROJECT CONTACT:	ACT:						SOB141.02 SAMPLER(S): (PRINT)		
CITY:	Irvine			STATE:	CA ZIP:	92606		Ste	Steve Willams	ms						Steve Øssim; Shad Whitten	ad Whitten	
TEL:	949-623-4700	E-MAIL: Ste	steve.williams@erm.com	Qerm.co	в								REQL	REQUESTED ANALYSES	ANAI	_YSES		
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4	P3-FL-6-0	6/27/2016	11:30	sol	1-802/1-402			×		×	×	×						
d h	P3-FL-5-0.5	6/27/2016	11:35	soll	1-Boz/1-4oz			×	×	×	×	×						
	P3-FL-5-1	6/27/2016	11:40	soli	1-8oz/1-4oz								Hold					
ŝ	P3-FL-5-3	6/27/2016	11:45	soll	1-8oz/1-4oz								Hold					
46	P4-FL-6-0	6/27/2016	11:00	soll	1-802/1-402			×	×	×	×	×						
47	P4-FL-6-0.5	6/27/2018	11:05	soll	1-8oz/1-4oz			×	×	×	×	×						
34	P4-FL-6-1	6/27/2016	11:10	llos	1-802/1-402								Hold					
μq	P4-FL-6-3	6/27/2016	11:15	soll	1-802/1-402								Hold					
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7440 Lincoln Way, Gerden Grove, CA 92841-1427 · (714) 895-5494 For courier service / sermiele dron off Information. contact us28 seleate	141-1427 • (714) E nation: contact us2	895-5494 28 នគាំទនយិតប្រាល់ពីរ	nsus.com or c	or call us		9	g	06 - 2043	Ð			PAGE:	7	OF	8	
LABORATORY CLIENT: Environmental Resource Management (ERM)	Environmental Resource Management (ERM)	agement (ERN	(V				LIENT PR	GLIENT PROJECT NAME / NUMBER. NRG. Coolwatar	VIE / NUM	JER:	****			P.O. NO.: 366141 D2		
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TEL: 949-823-4700	E-MAIL: Sto	steve.williams@erm.com	@erm.con								REC	REQUESTED ANÁLYSES	ANALY	SES		T
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UBE D SAMPLE ID	DATE	TIME	MATRIX	OF CONT.				d Hq								
50 P5-FL-7-0	8/27/2016	10:45	soll	1-8oz/1-4oz			×	×	×	×						
5 P6-FL-7-0.5	8/27/2016	10:50	soll	1-802/1-402			×	×	×	×						
60 P6-FL-1-1	8/27/2016	10:55	soli	1-80z/1-40z							Hold					
55 P5-FL-7-3	8/27/2016	11:00	soll	1-802/1-402							Hold					
5H P6-FL-8-0	6/27/2016	10:00	soli	1-802/1-402			×	×	×	×						
55 P6-FL-8-0.5	8/27/2016	10:05	soll	1-80z/1-40z			×	×	×	×						
56 P5-FL-8-1	6/27/2016	10:10	soil	1-Boz/1-4oz							Hold					
57 P6-F1-8-3	7 8/27/2018	10:15	soli	1-80z/1-40z							Hold					
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Staroni	Calscience	SAMPLE RECEIPT				o	•••
		SAMPLE RECEIPT				-	
CLIENT:	ERM			DAI	E: 00	1281	2010
Thermometer ID Sample(s) Sample(s) Sample(s) rec	2: SC2A (CF: 0.0°C); T outside temperature o outside temperature o	0°C, not frozen except sedim remperature (w/o CF): <u>2</u> criteria (PM/APM contacted by criteria but received on ice/chi perature; placed on ice for tra	5°C (w/ CF): <u>2</u> y:) illed on same day o			Ø Samp ed by:	
CUSTODY SEA							
Cooler 🗆	L: ] Present and Intact ] Present and Intact	□ Present but Not Intact □ Present but Not Intact	☑ Not Present ☑ Not Present	□ N/A □ N/A	Checke Checke	ed by: <u>6</u> ed by: <u>1</u>	<u>76</u> 153
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		with COC				Ø	
		d condition					
		sted					
Sufficient volum	e/mass for analyses r	equested		••••••			
Samples receive	ed within holding time		• • • • • • • • • • • • • • • • • • • •	••••••	Z		
Aqueous sar	nples for certain analy	ses received within 15-minute	e holding time				
🗆 pH 🗆 Re	sidual Chlorine 🛛 Di	ssolved Sulfide 🛛 Dissolved	l Oxygen				
Proper preserva	ation chemical(s) noted	d on COC and/or sample cont	tainer				
Unpreserved	l aqueous sample(s) r	eceived for certain analyses					
□ Volatile O	rganics 🛛 Total Meta	als Dissolved Metals					
Container(s) for	certain analysis free	of headspace					Ø
		Gases (RSK-175) □ Dissol					
Carbon D	ioxide (SM 4500)	Ferrous Iron (SM 3500) 🛛 H	ydrogen Sulfide (Ha	ach)			
Tedlar™ bag(s)	) free of condensation						Ø
CONTAINER T				ik Lot Numbe			)
		na₂ □ 100PJ □ 100PJna₂ [	· ·				
		B □ 250CGBs □ 250PB □					
□ 500PB □ 1A	AGB □ 1AGB <b>na₂</b> □ 1	AGBs, 🗆 1PB 🗆 1PBna 🗆		0	C	]	_
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Air: □ Tedlar™	🗆 Canister 🛛 Sorbe	nt Tube	_ Other Matrix (	): □	]	0	
		ear, <b>E</b> = Envelope, <b>G</b> = Glass, J					
Preservative: h =	= buffered. f = filtered. h	= HCl, <b>n</b> = HNO <sub>3</sub> , <b>na</b> = NaOH, <b>na</b>	<b>a₂ = Na₂S₂O₃, p =</b> H₃P	O₄, Labele	d/Check	ed by: <u>/</u>	057
		nna = Zn (CH <sub>3</sub> CO <sub>2</sub> ) <sub>2</sub> + NaOH			Review	ed by:	059
1							

a state

seurofins work or	DER NUMBER: '	16-06		37
Calscience SAMPLE RECEIPT CHECKLI	ST CO	DOLER	20	F_2
		E: 06 /		
CLIENT:       EAM         TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)         Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF):         Sample(s) outside temperature criteria (PM/APM contacted by:         Sample(s) outside temperature criteria but received on ice/chilled on same of         Sample(s) received at ambient temperature; placed on ice for transport by count         Ambient Temperature:       Air	;): <u>∠. 4</u> .°C; ⊑ day of sampling	] Blank		ble
CUSTODY SEAL:         Cooler       □ Present and Intact       □ Present but Not Intact       ☑ Not Prese         Sample(s)       □ Present and Intact       □ Present but Not Intact       ☑ Not Prese			ed by: <u>6</u> ed by: <u>f</u> e	
SAMPLE CONDITION:		Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples		ø		
COC document(s) received complete □ Sampling date □ Sampling time □ Matrix □ Number of containers				
$\Box$ No analysis requested $\Box$ Not relinquished $\Box$ No relinquished date $\Box$ No			_	-
Sampler's name indicated on COC				
Sample container label(s) consistent with COC				
Sample container(s) intact and in good condition				
Proper containers for analyses requested				
Sufficient volume/mass for analyses requested				
Samples received within holding time		Ð		
Aqueous samples for certain analyses received within 15-minute holding time		_		
□ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen				
Proper preservation chemical(s) noted on COC and/or sample container Unpreserved aqueous sample(s) received for certain analyses				
□ Volatile Organics □ Total Metals □ Dissolved Metals Container(s) for certain analysis free of headspace □ Volatile Organics □ Dissolved Gases (RSK-175) □ Dissolved Oxygen (S				ฮ
□ Carbon Dioxide (SM 4500) □ Ferrous Iron (SM 3500) □ Hydrogen Sulfic Tedlar™ bag(s) free of condensation	le (Hach)			e
	Blank Lot Numbe			)
CONTAINER TYPE:       (Trip         Aqueous: □ VOA       □ VOAh       □ VOAna₂       □ 100PJ       □ 100PJna₂       □ 125AGB       □				<i>f</i>
Aqueous: $\Box$ $VOA$ $\Box$ <t< td=""><td>00AGB 🗆 500AG.</td><td>J 🗆 500.</td><td>AGJ<b>s</b></td><td></td></t<>	00AGB 🗆 500AG.	J 🗆 500.	AGJ <b>s</b>	
$\Box 500PB \Box 1AGB \Box 1AGBna_2 \Box 1AGBs \Box 1PB \Box 1PBna \Box \ \Box$				
Solid: $\square$ 4ozCGJ $\square$ 8ozCGJ $\square$ 16ozCGJ $\square$ Sleeve () $\square$ EnCores <sup>®</sup> ()	 _) □ TerraCores <sup>®</sup>	)		
Solid: D 402CGJ       D 802CGJ       D 1002CGJ       D 002CGJ       D 002CGJ	): [): [)	]		
Container: $A = Amber$ , $B = Bottle$ , $C = Clear$ , $E = Envelope$ , $G = Glass$ , $J = Jar$ , $P = Plastic Preservative: b = buffered, f = filtered, h = HCl, n = HNO_3, na = NaOH, na_2 = Na_2S_2O_3, p$	c, and <b>Z</b> = Ziploc/Res	sealable E d/Check	Bag ed by: _ <b>_</b>	1057
s = H <sub>2</sub> SO <sub>4</sub> , u = ultra-pure, znna = Zn (CH <sub>3</sub> CO <sub>2</sub> ) <sub>2</sub> + NaOH		Keview	ed by:	<u>kr.</u>

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seurofins Calscience

WORK ORDER NUMBER: 16-06- 2043

SAMPLE ANOMALY REPORT

# DATE: 06 / 28 / 2016

SAMPLES, CONTAINERS, AND LABELS:	Comments
Sample(s) NOT RECEIVED but listed on COC	
Sample(s) received but NOT LISTED on COC	
Holding time expired (list client or ECI sample ID and analysis)	
Insufficient sample amount for requested analysis (list analysis)	
Improper container(s) used (list analysis)	
Improper preservative used (list analysis)	·····
□ No preservative noted on COC or label (list analysis and notify lab)	(-16) Received 1 orz containers
□ Sample container(s) not labeled	(40265) labeled as
Client sample label(s) illegible (list container type and analysis)	P1-2
☑ Client sample label(s) do not match COC (comment)	(Date/Time matched)
Project information	
Client sample ID	(-22) Received 10F2 container.
Sampling date and/or time	(402CGJ) labeled as
$\Box$ Number of container(s)	<u>P</u> <u>Pl-2</u> P2-1
□ Requested analysis	(Date/Time matched)
Sample container(s) compromised (comment)	<u>f</u>
Broken	(-32) Labeled as P1-FL-2-1
Water present in sample container	(Date/Time matched)
Air sample container(s) compromised (comment)	
□ Flat	Collection time Per label
□ Very low in volume	(-17)9:10 $(-18)9:15$
Leaking (not transferred; duplicate bag submitted)	(-19)9:20 $(-20)9:25$
□ Leaking (transferred into ECI Tedlar™ bags*)	
□ Leaking (transferred into client's Tedlar™ bags*)	
* Transferred at client's request.	
MISCELLANEOUS: (Describe)	Comments

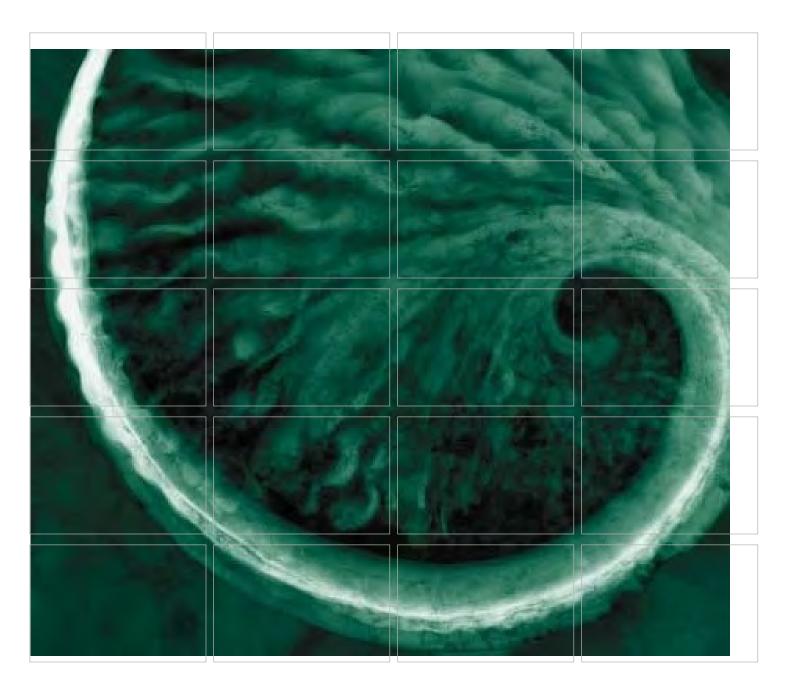
ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**
	- Humber			
	ECI Container ID			

Comments: \_\_\_\_\_

\*\* Record the total number of containers (i.e., vials or bottles) for the affected sample.

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis
			······································

Reported by:	1053
Reviewed by:	1619



# **Evaporation Impoundment Characterization Workplan Coolwater Generating Station**

NRG Energy, Inc. 3700 Santa Fe Street Daggett, California

March 2016

www.erm.com



The world's leading sustainability consultancy

Evaporation Impoundment Characterization Workplan Coolwater Generating Station 3700 Santa Fe Street

Daggett, California

March 2016

Project No. 0290120

3-17 No. 721 3-17 No.7084 CAS OF CA Steve Williams, P.G., C.HG. SSIONAL GEOLOG Partner-in-Charge PROFE MARLENE FUSA 5 DUFFY STR OF CALIF Marlene Duffy, P.G. Project Manager

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Environmental Resources Management 2875 Michelle Drive, Suite 200 Irvine, California 92606 T: 949-623-4700 F: 949-623-4711

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## 1.0 INTRODUCTION

ERM-West, Inc. (ERM) has prepared this Evaporation Impoundment Characterization Workplan (Workplan) on behalf of NRG California South LP (NRG), owner of the Coolwater Generating Station (CGS) a subsidiary of NRG Energy, Inc.

CGS is located at 3700 Santa Fe Street in Daggett, California (site; Figure 1). CGS consists of four electricity generating units (Units 1-4), five evaporation impoundment ponds, former coal gasification facility (CGF), and supporting administrative and operational/warehouse facilities and out-of-service equipment.

NRG and the Lahontan Regional Water Quality Control Board (LRWQCB) inspected CGS on 3 March 2016. Following the site inspection, the LRWQCB requested NRG to characterize the waste settled solids in the evaporation impoundment and shallow soil surrounding the respective impoundment cells. This Workplan is submitted in response to the request by LRWQCB for the assessment, and in compliance with Waste Discharge Requirements (WDR) RWQCB Order No. 6-98-54, Monitoring and Reporting Program, Section IV.

The evaporation impoundment is located to the east of CGS and consists of five manmade, lined ponds (Ponds 1 through 5), as shown on Figure 1. The ponds were constructed in 1973 and have been used to dispose of cooling water blowdown and other low-volume wastes from CGS, the former CGF, and the former Solar One and Solar Two facilities. The objective of this assessment is to characterize the current chemical composition of accumulated settled solids within each of the ponds and assess surficial soil outside of the ponds within CGS's property boundary.

To meet the above objectives, this Workplan has been prepared as follows:

- Section 1.0 Introduction.
- Section 2.0 Background This section provides relevant information regarding the site history, description of the facility and the evaporation impoundment, geology and hydrogeology of the area and local climate conditions.

- Section 3.0 Evaporation Impoundment Sampling. This section provides the methodology for sampling settled solids with the ponds and soil around the ponds, laboratory analyses, decontamination, and waste disposal.
- Section 4.0 Evaporation Impoundment Characterization Report. Contents of the Closure Report are presented in this section.
- Section 5.0 Schedule and Notifications. A schedule for proposed site activities and for LRWQCB notifications is presented in this section.
- Section 6.0 References. This section provides a list of references used in the preparation of this Workplan.

## 2.0 BACKGROUND INFORMATION

This section provides an overview of the history of the site, previous operations, and a description of the facility.

## 2.1 SITE HISTORY

CGS began operations in 1961 as a part of Southern California Edison Company (SCE). Prior to 1961, the site was agricultural land. As part of the 1996 deregulation of California's energy market, in 1998 SCE sold CGS to Alta Power Generation LLC., a subsidiary of Houston Industries Inc. In 1999 Houston Industries Inc. changed its name to Reliant Energy and subsequently to RRI Energy. The sale included CGS, the evaporation impoundments, and the former CGF property. SCE retained the surrounding property including the former solar facilities and a solid waste pile associated with the former CGF. Figure 1 provides an overview of CGS and SCE's property boundaries and facilities.

In 2010, RRI Energy and Mirant Energy merged to form GenOn Energy, Inc. In 2012, NRG Energy, Inc. acquired GenOn Energy, Inc., including CGS. NRG deactivated electricity generating Units 1-4 on 1 January 2015. NRG is currently in the process of deactivating the facility.

## 2.2 SITE DESCRIPTION

## Coolwater Generating Station

CGS covers approximately 293 acres of land situated on one irregular shaped parcel. CGS is developed with multiple structures, buildings, and roads. The main components of the site include four power generating units and ancillary structures (i.e., aboveground storage tanks [ASTs]; cooling towers; an evaporation impoundment; administration, maintenance and storage buildings; and switchyards).

The site was first developed in approximately 1960 with the construction of generation Unit #1. After 1960, the site continued to be developed with three additional electrical generation units as summarized below.

Unit No.	Initial Operation	Fuel Option	Generation Capacity
1	1961	Natural Gas, Oil	64MW
2	1964	Natural Gas, Oil	75MW
3	1978	Natural Gas, Distillate	246MW
4	1978	Natural Gas, Distillate	246MW

 Table 1 - Electric Generation Unit Summary

MW = Megawatts

## *Coal Gasification Facility*

The "Cool Water Coal Gasification Program" (CWCGP) built and operated the first commercial-scale prototype of an integrated gasification-combined cycle power plant. The objective of the project was to demonstrate the viability of integrating coal gasification with a combined-cycle power plant. The project also evaluated plant performance of four different types of bituminous coals. The CGF began operation in 1984 and ceased operation in 1989. After CGF ceased operation, CGS continued to operate using natural gas and fuel oils. The CGF was located immediately north of the current CGS (Figure 1). The CGF waste streams were discharged solely into Ponds 4 and 5. Waste streams discharged to the ponds included grey water, stripped "sour water", and coal fines from slurry lines and tank flushing.

## Former Solar Facilities

As part of the "Solar Project", Solar One and Solar Two facilities were formerly located on SCE property to the northeast of CGS. Solar One was a pilot solar-thermal project and the first test of a large-scale thermal solar power tower plant.

Solar One used hundreds of large mirror assemblies (heliostats) to concentrate the sun's energy onto a common focal point to produce heat to run a steam turbine generator. The high-temperature heat transfer fluid was used to carry the energy to a boiler on the ground where the steam was used to spin a series of turbines. Solar One was in operation from 1982 to 1986.

In 1995, Solar One was converted into Solar Two by adding a second ring of larger heliostats around the existing Solar One and using molten salt as the energy storage medium instead of oil or water as with Solar One. Solar Two was deactivated in 1999 and demolished in 2009. The footprint of the former solar facilities is currently open land maintained by SCE. Waste streams (e.g. blowdown water, demineralizer, etc.) from the former solar facilities were discharged into CGS Ponds 2 and 3.

### Source Water

CGS is provided with water for all operations and potable use from onand off-site groundwater production wells owned and operated by NRG.

## 2.3 EVAPORATION IMPOUNDMENT

The evaporation impoundment is located on the northeastern portion of the property; it was constructed in 1973 and consists of five separate ponds (Figures 1 and 2). The five ponds are single-clay lined with compacted sand layers above and below the clay-liner and total approximately 130-acres of evaporation surface area and a total design capacity of 0.82 million gallons per day of input. WDRs are currently established under RWQCB Order No. 6-98-54. Historically, the ponds received wastewater from the former solar facilities (into Ponds 2 and 3), the CGF (into Ponds 4 and 5), and the CGS (into all ponds). Until the CGS was deactivated on 1 January 2015 and the solar facilities were deactivated in 1999, approximately 90 to 95 percent of the discharge from the CGS power plant and the solar facilities was wastewater from cooling blowdown and the remaining 5 to 10 percent from the water treatment units (demineralizer, water softener brine) and an oil-water separator on CGS property. Discharges into Ponds 4 and 5 from the CGF consisted of grey water, stripped "sour water", and coal fines from slurry lines and tank flushing until the CGF was deactivated in 1989. After CGS was deactivated on 1 January 2015, the primary discharge to ponds has been the direct discharge of groundwater in order to keep the impoundment clay-liner material hydrated and prevent desiccation cracking. The discharge of groundwater into the ponds also helps minimize wind erosion of materials retained in the ponds by maintaining a moist surface.

The dimensions of each pond (measured from berm center) and a summary of waste streams are presented in Table 2.

Cell	Waste Disposal Source and Duration	Maximum Length (feet)	Maximum Width (feet)	Acres
1	CGS - 1973 to 2015	1930	830	28.2
2	CGS - 1973 to 2015	2080	620	28.4
	Solar One, Two 1982 to 1999	2000	020	20.4
3	CGS - 1973 to 2015	2100	640	28.5
3	Solar One, Two 1982 to 1999	2100	040	20.0
4	CGS - 1973 to 2015	2260	610	28.5
4	CGF 1984 to 1989	2200	010	20.5
5	CGS - 1973 to 2015	1990	880	30.2
	CGF 1984 to 1989	1790	000	50.2

Table 2 - Pond Dimensions and Wastewater Sources

In compliance with the WDR, the evaporation impoundment monitoring program consists of; quarterly groundwater sampling of four compliance groundwater monitoring wells (note; four additional monitoring wells not specified in the WDR are also sampled), quarterly soil moisture measurements from 28 Trase waveguides installed in 14 vadose zone monitoring wells, semiannual groundwater gradient determination, sampling of wastewater contained in the ponds, and measurements of freeboard in each pond. As discussed in the 2016 *Self-Monitoring Report, Monitoring and Reporting Program No* 98-54, Annual Groundwater Monitoring Report (Hamilton, 2016), based on the results of the monitoring program, no indication of a release to groundwater has occurred from the evaporation impoundment.

In addition, previous sampling and monitoring programs have been conducted to assess the concentrations of the constituents of concern within the settled deposits of the evaporation impoundment. The 18 August 1992 letter from SCE to the LRWQCB, *Article 5 Water Quality Monitoring Requirements*, provides settled deposit or "sludge" data for all 5 of the evaporation ponds (Kay, 1992). This data presented in Table 1 of the letter supports a non-hazardous waste determination for the settled deposits within the 5 evaporation ponds.

## 2.4 GEOLOGY AND HYDROGEOLOGY

### Geology

CGS is located in the Mojave Desert Geomorphic Province, a wedge shaped area bounded by the Garlock Fault to the north, San Andreas Fault to the south and west, and the Colorado River to the east (Dibblee, 1967). The site is located in the western portion of the Mojave Valley. The Mojave Valley in the site vicinity consists of a broad alluvial plain bounded on the south by the Newberry Mountains, on the north by the Calico Mountains and on the west by the Mitchell Range (U.S. Geological Survey [USGS], 1997). The geology under the CGS consists of alluvial deposits including silty sand, sand, and gravelly sand mixed with lenses of silt and clay to depths of several hundred feet.

## Hydrogeology

The site is within the Baja Sub Area of the Mojave River groundwater basin (Stamos, et al, 2001). There are two aquifers located in the vicinity of CGS, the Floodplain Aquifer and the Regional Aquifer (Stamos, et al, 2001). The Floodplain Aquifer is made up of the modern Mojave River alluvium, which consists of unconsolidated permeable, coarse sands and gravel extended to a depth of approximately 200 feet below ground surface (bgs). The Floodplain Aquifer is the principal aquifer system in the area and overlies the Regional Aquifer, which is approximately 500 feet bgs below CGS and much deeper in other areas to the east and west (Stamos et al, 2001) and consists of less permeable alluvial fan deposits and older Mojave River alluvial deposits (USGS, 1997). Based on the 7 July 2015 WDR groundwater monitoring event for the site (Hamilton, 2016), the average depth to groundwater is approximately 175 feet bgs; groundwater flow direction is to the southeast; groundwater gradient is 0.0007 foot per foot; and the estimated flow rate is approximately one foot per day.

## 2.5 WEATHER, TOPOGRAPHY, AND SURFACE WATER

According to the Mojave Water Agency, the average annual rainfall in the area is approximately 4-inches or less per year. The predominant wind direction, as measured at the Newberry Springs Weather Station east of CGS, is from the west. The temperature can fluctuate from well above 100 degrees Fahrenheit in the summer to below freezing in the winter.

### Topography and Surface Water

CGS lies at approximately 1,971 feet above mean sea level. Topographically the site is relatively flat gently sloping north towards the Mojave River. The Mojave River originates at the base of the San Bernardino Mountains and flows south then east into the Mojave Desert. In the vicinity of CGS, the Mojave River is normally dry, flowing occasionally during periods of high precipitation.

### 3.0 EVAPORATION IMPOUNDMENT SAMPLING PLAN

This section presents methodology for settled solids and soil profiling and background soil sampling. All work will be conducted in accordance with a site-specific Health and Safety Plan (Appendix A).

NRG will notify LRWQCB of the proposed sampling activities in order to coordinate and allow LRWQCB staff to observe and collect additional samples, if necessary.

Prior to sampling soil at the pond perimeter locations, both USA DigAlert and a private utility locating company will be notified of proposed sampling in order to mark underground utilities. In addition, site utility maps will be reviewed with site personnel.

Settled Solids and soil samples will be collected as follows:

- Composite samples of settled solids will be collected from each of the five ponds (Ponds 1, 2, 3, 4, and 5). For each pond, the composite sample will be a laboratory composite of five discrete samples. Discrete samples will be collected at a depth of approximately 0.2 0.5 feet bgs (above the clay liner and compacted sand). The sampled material will be collected from the bottom of the ponds using a hand auger or trowel. Discrete samples will be collected in separate containers and submitted to a laboratory for compositing and analysis. To prepare the composite sample from each pond, the laboratory will take equal portions (approximately 30 grams) from each sample container and mix the sample together. Then aliquots from the composite samples are taken for individual analyses.
- Soil samples will be collected between the berm and fence line on the north, south, and eastern (prevailing downwind) side of the ponds. Soil samples will be collected using a hand auger and/or trowel. At each location, soil borings will be advanced utilizing a hand auger to a depth of 3 feet bgs. Samples will be collected from the surface, 6 inches bgs, 1 foot bgs, and 3 feet bgs. The surface and 6-inch samples will be submitted to the laboratory for analysis and the 1- and 3-foot samples will be submitted to the laboratory and archived pending results.
- Two to three background samples will be collected from 6 inches to 1 foot bgs to establish background benchmark conditions. Two proposed background locations are shown on Figure 2; a third

location may be identified in the field in consultation with the LRWQCB.

Proposed sample locations are summarized in Table 2 and shown on Figure 2.

All samples will be in placed in clean laboratory-supplied glass containers with the appropriate preservatives (if required) for the various analyses. Samples will be sent to a California-certified laboratory in an ice chest with ice under chain-of-custody protocol.

Sample ID	Depth (feet)	Location	Rationale	
P1-1	0.2 to 0.6			
P1-2	0.2 to 0.6		Composite Sample of Pond 1 Settled	
P1-3	0.2 to 0.6	Within Pond 1	Solids	
P1-4	0.2 to 0.6		Sonus	
P1-5	0.2 to 0.6			
P1-N-1	0, 0.5, 1, 3	North of Pond 1	Crosswind Sample	
P1-N-2	0, 0.5, 1, 3	North of Pond 1	Crosswind Sample	
P1-E-1	0, 0.5, 1, 3	East of Pond 1	Downwind	
P2-1	0.2 to 0.6			
P2-2	0.2 to 0.6	]	Composite Sample of Pond 1 Settled	
P2-3	0.2 to 0.6	Within Pond 2	Solids	
P2-4	0.2 to 0.6		Solids	
P2-5	0.2 to 0.6			
P2-E-1	0, 0.5, 1, 3	East of Pond 2	Downwind Sample	
P3-1	0.2 to 0.6		<u></u>	
P3-2	0.2 to 0.6			
P3-3	0.2 to 0.6	Within Pond 3	Composite Sample of Pond 1 Settled	
P3-4	0.2 to 0.6		Solids	
P3-5	0.2 to 0.6			
P3-E-1	0, 0.5, 1, 3	East of Pond 3	Downwind Sample	
P4-1	0.2 to 0.6			
P4-2	0.2 to 0.6			
P4-3	0.2 to 0.6	Within Pond 4	Composite Sample of Pond 1 Settled Solids	
P4-4	0.2 to 0.6		Solids	
P4-5	0.2 to 0.6			
P4-E-1	0, 0.5, 1, 3	East of Pond 4	Downwind Sample	
P5-1	0.2 to 0.6			
P5-2	0.2 to 0.6	]	Composite Comple of Dand 1 Catulad	
P5-3	0.2 to 0.6	Within Pond 5	Composite Sample of Pond 1 Settled Solids	
P5-4	0.2 to 0.6	]	Solius	
P5-5	0.2 to 0.6			
P5-N-1	0, 0.5, 1, 3	North of Pond 5	Downwind Sample	
P5-E-1	0, 0.5, 1, 3	East of Pond 5	Crosswind Sample	
B-1	0.5-1	Southwest of Ponds	Background Sample	
B-2	0.5-1	West of Ponds	Background Sample	

Table 3 - Sample Plan Summary

## 3.1 SAMPLE ANALYIS

The proposed sample analysis is based on the constituents of concern listed in the WDR; the requirements listed in Hazardous and Solid Waste Management System Disposal of Coal Combustion Residuals from Electric Utilities (U.S. Environmental Protection Agency [USEPA], 2014); and total petroleum hydrocarbons based on operation equipment. The list of analysis and analytical methods are summarized below.

- California Title 22 metals, boron, calcium, lithium, magnesium, potassium, and sodium by USEPA Methods 6010 and 7471;
- Chloride, fluoride, nitrate, and sulfate by USEPA 300.0;
- pH by 9045;
- Total dissolved solids by USEPA Method 106.1;
- Total petroleum hydrocarbons as diesel and as motor oil by USEPA Method 8015b; and
- Radium 226 and 228 by USEPA 903.1 and USEPA 904.0

## 3.2 EQUIPMENT DECONTAMINATION

Decontamination of sampling equipment shall be performed to reduce the potential for cross-contamination between monitoring points. Nondedicated sampling equipment will be decontaminated before and after samples are collected. Equipment will be triple rinsed, which will consist of a detergent and water wash, a potable water rinse, and a distilled water rinse. Decontamination of personal protective equipment is addressed in the Health and Safety Plan.

## 3.3 INVESTIGATION DERIVED WASTE

Pending the results of the laboratory analysis, all investigation derived waste will be stored on site in Department of Transportation-approved drums. All manifests or other transport and disposal documents will be included in the final implementation report. All characterization derived wastes will be disposed of at an appropriate facility based on the waste profile. An Evaporation Impoundment Characterization Report will be prepared describing the profiling and confirmation sampling results. The following items will be included in the report:

- Site description and site history;
- Summary of sampling activities, including field observations collected during operations;
- Analytical results, including summary tables, data validation, and copies of the laboratory analytical reports and chain-of-custody forms;
- Conclusions and recommendations; and
- Professional Geologist or Engineer signature page.

The report will be submitted to the LRWQCB electronically.

## 5.0 SCHEDULE AND NOTIFICATIONS

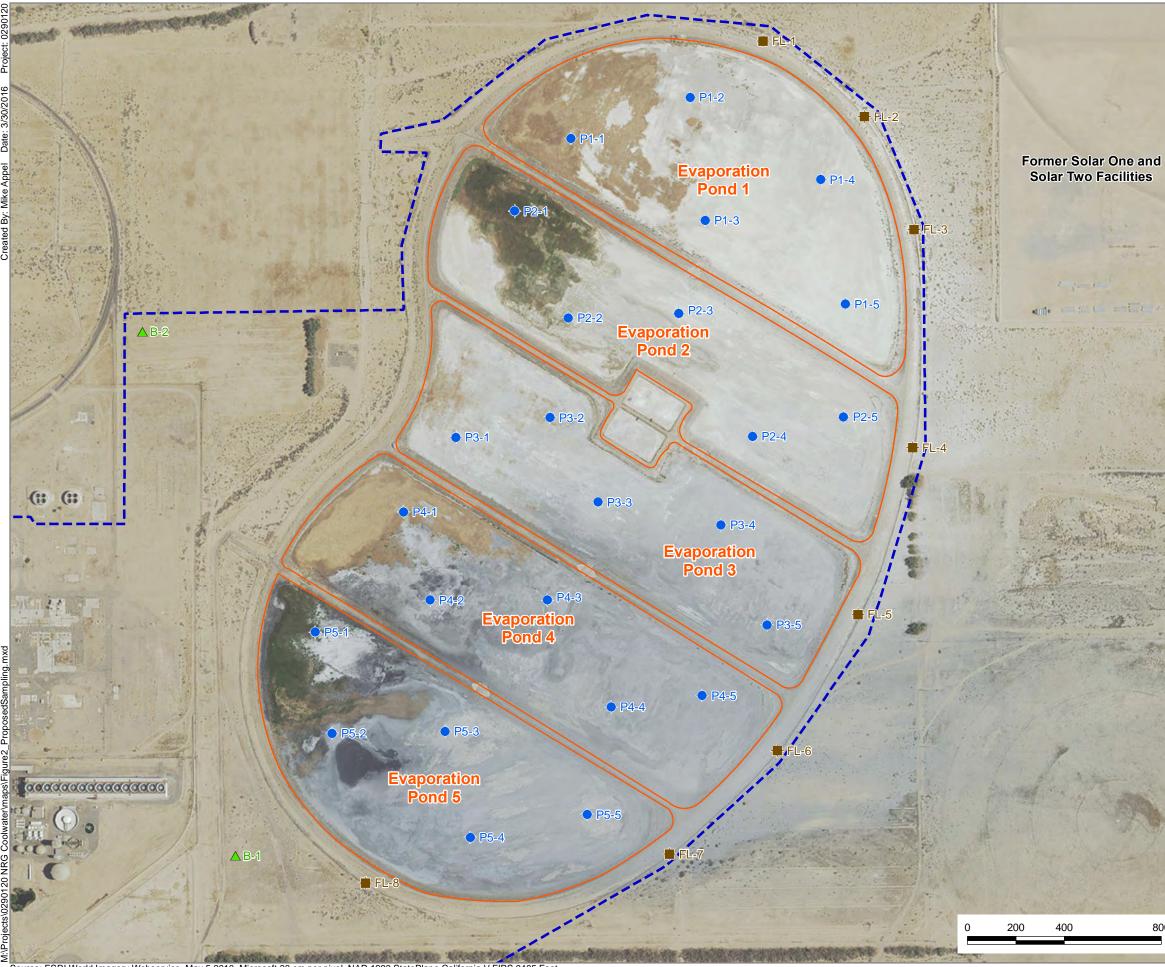
Sampling will be conducted within 2 weeks of Workplan approval from the LRWQCB.

The Evaporation Impoundment Characterization Report will be submitted to the LRWQCB approximately 3 weeks after receipt of final laboratory data.

### 6.0 **REFERENCES**

- Dibblee, Thomas W. Jr. 1967. Areal Geology of the Western Mojave Desert California; U.S. Geological Survey Professional Paper 522.
- Hamilton, P. 2016. Self-Monitoring Report, Monitoring and Reporting Program No 98-54, Annual Groundwater Monitoring Report. 11 January.
- Kay, D. 1992. Article 5 Water Quality Monitoring Requirements, SCE Letter to Lahontan Regional Water Quality Control Board. 18 August.
- Stamos, Christina L., Nishikawa, Tracy, and Martin, Peter. 2001. Water Supply in the Mojave River Ground-Water Basin, 1931-99, and the Benefits of Artificial Recharge. U.S. Geological Survey, Water Fact Sheet 122-01.
- U.S. Environmental Protection Agency (USEPA). 2014. *Hazardous and* Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities. 19 December.
- U.S. Geological Survey (USGS). 1997. Geohydrology and Water Quality of Marine Logistics Base, Nebo and Yermo Annexes, Near Barstow, California U.S. Geological Survey, Water Resources Investigation Report 96-4301.

Figures



Source: ESRI World Imagery Webservice, May 5,2010, Microsoft 30 cm per pixel NAD 1983 StatePlane California V FIPS 0405 Feet





## Legend

- Pond Surface Sample Location ٠
- Fence Line Sample Location
- Background Sample Location  $\land$
- Evaporation Ponds
- Property Boundary

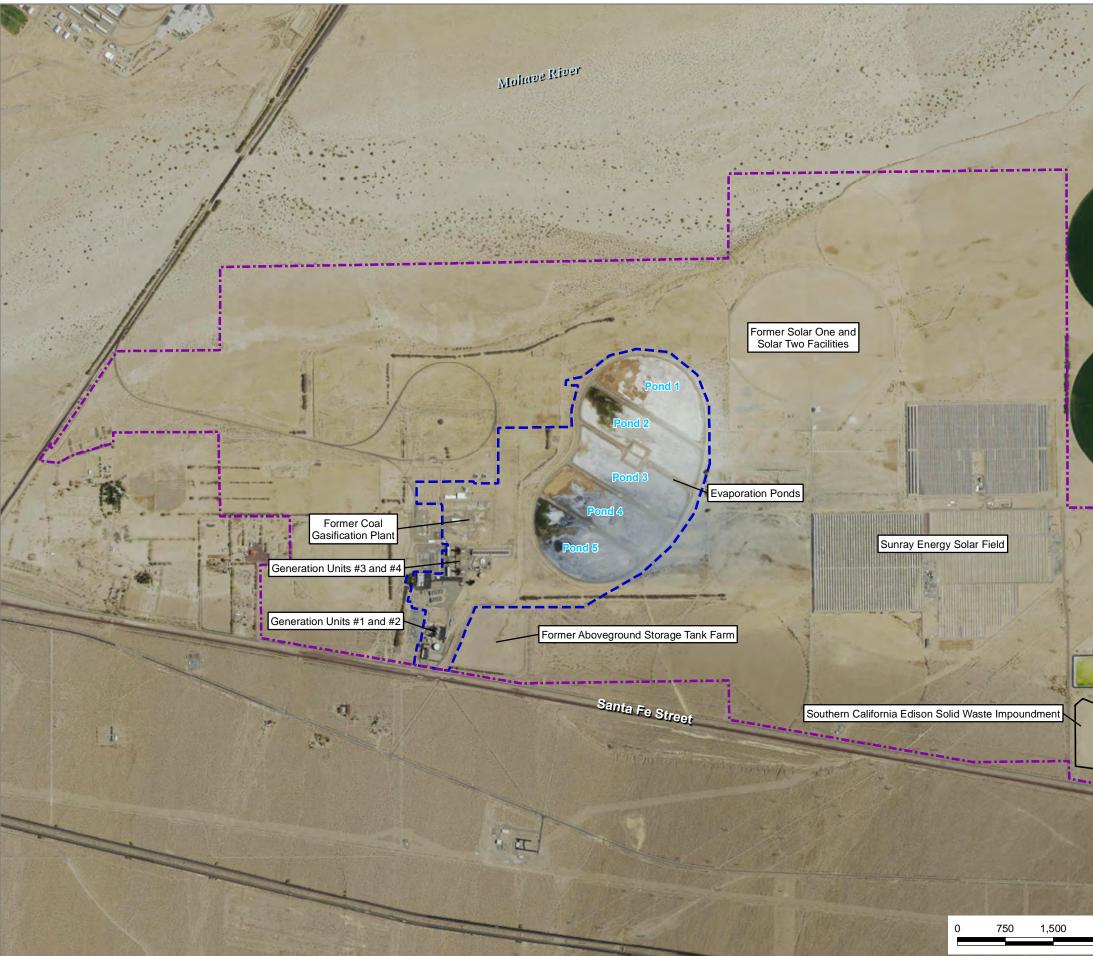
Notes: Property Boundary from San Bernadino GIS.

Figure 2 Proposed Sampling Locations NRG Coolwater Facility Daggett, California

Environmental Resources Management www.erm.com







Source: ESRI World Imagery Webservice, July 4, 2014, USDA (NAIP) 1 meter per pixel NAD 1983 StatePlane California V FIPS 0405 Feet





## Legend

- NRG Coolwater Property Boundary
- Southern California Edison Solid Waste Impoundment
- Southern California Edison Property Boundary

Notes: Parcel Boundary from San Bernadino County GIS.

**Figure 1** Site Location NRG Coolwater Facility Daggett, California

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Appendix A Health and Safety Plan

	Applicability:		Form	<b>Document Number:</b>	Version:
	North A	merica	Form	S3-NAM-029-FM3	3
ERM	Title:	Level 2 Hea	lth and Safety Plan	Last Revision Date:	12/15/15

This Level 2 health and safety plan (HASP) is intended to provide health and safety guidelines for project work meeting one or more of the following criteria:

- Some likelihood of physical and/or chemical hazard exposure (e.g., sampling, use of equipment and tools);
- Number of job tasks is five or greater;
- Use of subcontractors;
- Work meets the definition of being "high hazard", which includes, but is not limited to:
  - Activities that could have an adverse effect on the environment (e.g., use of bulk liquid storage tanks, generators, etc.);
  - o Air or boat transport via charter or non-commercial carrier/vendor;
  - Confined space entry;
  - o Construction;
  - Demolition, Decontamination and Demolition (DDD) operations;
  - o Diving;
  - Excavations, trenching, drilling, or other ground disturbance activities (i.e., activities requiring subsurface clearance [SSC] operations);
  - o Hazardous energy control operations;
  - Hot work (e.g., welding, flame cutting, or other spark-producing activities);
  - Injection well operations;
  - Off-shore or over water work (including oil platform visits);
  - Rigging and lifting operations; and
  - Work at heights in excess of four feet.

The HASP should be developed with input from the project team and reviewed with all ERM project personnel, including subcontractors. A signed copy of the HASP must be maintained at the project site during work and must be archived in the project files.

H&S Team review is required for the Level 2 HASP. You can e-mail completed plans requiring review the ERM North America HASP Review to Team (ERMNASafetyLeads@erm.com). This HASP must be reviewed by the Project Manager and reviewed/approved by the Partner in Charge (PIC) and updated as warranted to address changes in scope, hazards present, project personnel, etc. At a minimum, HASPs must be reviewed annually or if the scope of work changes. Updated HASPs should also be sent to the H&S Team for review and PIC for approval.

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### **Administrative Information**

This document has been developed for the sole use of ERM staff. Subcontractors and other project participants must develop their own HASP.

This document is valid for a maximum time period of one year after completion. The document must be reviewed if the scope of work or nature of site hazards changes and must be updated as warranted.

Project Name: NRG Coolwater	Site Name & Location: Coolwater Generating Station 37000 Santa Fe St. Daggett, CA				
Client Contact and Phone: Jeff Edwards 760-250-8060	GMS Project #: 0290120				
Health & Safety Plan Date: 03/23/2016	Revision Number and Date: N/A				
Field Work Start Date: 4/4/2016	Anticipated Field Work End Date: April / May 2016				
Project Manager: Marlene Dawes	Partner In Charge: Steve Williams				
Field Safety Officer: Staci DeSantis	Additional ERM Personnel on site: Steve Ossim, Pete Grasso, Shad Whitten				
H&S Team Review					
Reviewer Name: Click have to enter text					

Reviewer Nam	e: Click here to enter text.
Review Date:	Click here to enter a date.

### Site Description and Scope of Work

Include relevant background information regarding the site, such as location, size, type of facility, topography, weather, infrastructure, security, previous site use, etc. Describe nature and extent of any soil/air/water/groundwater contamination. Describe any other aspects of the site that may potentially affect the health, safety, or security of on-site personnel.

Signature File:

Include a description of work to be completed during the project. From this, develop a list of tasks to be completed by ERM personnel, as well as a list of tasks to be completed by subcontractor personnel.

Site Description: The NRG Coolwater Generation Station is a deactivated electric power generating facility consisting of two natural gas- or low sulfur fuel oil-fired units rated at 65 and 81 megawatts, respectively, and two combined cycle generating units (each consisting of two combustion turbines, two heat recovery steam generators, and a steam turbine) rated at 246 megawatts each.

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### **Project Background and Scope of Work**

Include list of tasks to be completed by ERM personnel during this project, and a separate list of tasks to be completed by any contractors at the site. A site-specific Job Hazard Analysis (JHA; ERM Form S1-ERM-002-FM4) must be completed for each task to be performed. Contractors must provide their own HASP and a JHA for each task they will perform for ERM review.

A JHA template and reference/example JHAs for more common tasks can be found at: Americas H&S Page - JHAs.

ERM Scope of Work: ERM will collect environmental sludge and soil samples using a hand auger and other hand tools. The sludge samples will collected from evapoartion ponds and surrounding soil. The objective of this study is to characterize the sludge within the ponds and assess surficial soil downwind of the ponds which may have been impacted by wind-blown dust from the ponds.

☑ JHA Attached?
☑ JHA Attached?
□ JHA Reviewed?
□ JHA Reviewed? □ JHA Reviewed?
□ JHA Reviewed?
□ JHA Reviewed? □ JHA Reviewed?
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Contractor(s) to be used:		Approved under Contractor Management Program?
1.	TBD	$\Box$ Yes $\Box$ No
2.	Click here to enter text.	$\Box$ Yes $\Box$ No
3.	Click here to enter text.	$\Box$ Yes $\Box$ No
4.	Click here to enter text.	□ Yes □ No
5.	<u>Click here to enter text.</u>	$\Box$ Yes $\Box$ No

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Site	Site/Project General Information					
Site	Type (check all applicable boxes)					
$\boxtimes$	Industrial		Hazardous waste release (Hazwoper)			
	Residential		Remote or Inactive Facility*			
	Unsecured		Other (specify): Vitamin Manufacturing Facility			
	Coastal/offshore (on or near water)		Other (specify): Click here to enter text.			
*ERN	I Form S3-NAM-029-FM6 (Undeveloped, Remote, or Inactive Si	tes) mu	st be completed and attached to this document.			
Mai	n Project Hazards (check all applicable boxes)					
	Aerial Lift Use (e.g., Scissor Lifts, Cherry Pickers) <sup>1</sup>		Helicopter/Fixed Wing Aircraft Transportation <sup>3</sup>			
	All-Terrain Vehicle Use <sup>1</sup>		High Noise (>85 dBA)			
	ASTs/USTs		Hot Work (Welding, Cutting, Brazing) <sup>2</sup>			
	Biological Hazards		International Travel <sup>4</sup>			
$\boxtimes$	Chemical Exposure Potential (including asbestos)		Long Distance/Duration Driving <sup>5</sup>			
	Chemical Mixing/Injection		Mining (Surface/Underground)			
	Compressed Gas	$\boxtimes$	Natural Hazards (Plants, Animals, Insects)			
	Confined Space Entry <sup>2</sup>		Off-Shore Platform Work <sup>6</sup>			
	Construction <sup>1</sup>		Overhead Power Lines			
	Control of Hazardous Energy (i.e., Lockout/Tagout) <sup>2</sup>		Portable/Fixed Ladders			
	DDD Operations <sup>1</sup>		Radiation (Ionizing/Non-ionizing)			
	Diving <sup>1</sup>		Rigging/Lifting <sup>2</sup>			
$\boxtimes$	Ergonomics/Material Handling		Scaffold Use			
	Excavation/Trenching/Drilling <sup>2</sup>		Shift Work (e.g., night work)			
	Extended or Nonstandard Work Shifts (>14 hours)		Short Service Employees			
$\boxtimes$	Extreme Weather	$\boxtimes$	Slips/Trips			
	Explosives Use <sup>1</sup>		Subsurface Clearance (Buried Utilities) <sup>2</sup>			
	Falls from height $(>4 \text{ feet})^1$		Working on/over Water (including transport) <sup>1</sup>			
	Forklift/Industrial Truck Use <sup>1</sup>		Unexploded Ordnance/Munitions and Explosives of			
$\boxtimes$	Hand/Power Tool Use		Concern (UXO/MEC) <sup>1</sup>			
	Heavy Equipment Use		Other (specify): Click here to enter text.			
1	High hazard work requiring H&S team coordination. Additional	contro	l measures may be required beyond JHA.			

- Permit-required high hazard work requiring H&S Team coordination and ERM or equivalent client-required permit to be completed.
   If traveling using a helicopter or fixed wing aircraft, ERM employees are required to follow the provisions of ERM Standard S1-ERM-009-ST (*Fixed Wing Aircraft and Helicopter Safety*).
- 4 A Travel Risk Assessment (TRA) is required for all international travel (with the sole exception of travel to a Low Risk country where ERM has a permanent office). Consult ERM Standard S1-ERM-005-ST.

5 If driving more than 500 km (310 miles) in a single day, driving in excess of 4.5 hours in a single day, or driving in a remote location, a Journey Management Plan (see ERM Standard S1-ERM-008-PR) is required and should be appended to this HASP.

6 If traveling to/from and working on an off shore platform, ERM employees are required to follow the provisions of ERM Standard S1-ERM-006-ST (*Offshore Platform Safety*).

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Che	Chemical Products Used or Stored On-Site						
For e	ach chemical product identified, a Safety Data Sheet (SDS	) mus	t be attached to this HASP.				
$\boxtimes$	Alconox or Liquinox		Household bleach (NaOCl)				
	Hydrocholoric acid (HCl)		Calibration gas				
	Nitric acid (HNO <sub>3</sub> )		Other (specify): Click here to enter text.				
	Sulfuric acid (H <sub>2</sub> SO <sub>4</sub> )		Other (specify): Click here to enter text.				
	Sodium hydroxide (NaOH)		Other (specify): Click here to enter text.				
	Isopropyl alcohol		Other (specify): Click here to enter text.				
Note:	Eyewash solution must be readily available on all project sites who	ere ma	terials are used or stored that pose a risk of getting into the eyes				

Note: Eyewash solution must be readily available on all project sites where materials are used or stored that pose a risk of getting into the eyes via splashing or through contact with airborne gases, vapors, dusts, or mists. This includes sample preservatives. The eyewash unit, whether stationary or portable, must be large enough to provide at least 15 minutes of eye flushing.

#### **Regulated Chemicals of Concern**

Check any chemicals known or suspected to be present on the site to which the ERM team may be exposed. These chemicals include OSHA-regulated potential carcinogens (29 CFR 1910.1003 through 1016) as well as those chemicals for which OSHA has established specific respiratory protection requirements (29 CFR 1910.134). If any of these chemicals are present on site, contact your H&S team member for guidance and describe any additional protective measures to be taken, as necessary.

Friable asbestos		Hexavalent chromium
3,3'-Dichlorobenzidine		Coke oven emissions
Benzidine		Ethylene oxide
Beta-Propiolactone		1,2-Butadiene
N-Nitrosomethylamine		Methyl chromoethyl ether
Lead		Beta-Napthylamine
Benzene		Ethyleneimine
Acrylonitrile		4-Dimethylaminoazobenzene
Methylenedianiline		Inorganic arsenic
4-Nitrobiphenyl		Cadmium
alpha-Napthylamine		1,2-Dibromo-3-chloropropane
bis-Chloromethyl ether		Formaldehyde
4-Aminodiphenyl		Methylene chloride
2-Acetyaminoflourene	$\boxtimes$	No ERM exposure to these compounds
Vinyl chloride		

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	illed out for all confirmed or sus	pected chemicals present on the st be provided to all team membe			
Material name: Title 22 Meta	ıls	Highest reported concentration*: previously ND			
Primary hazards: Low levels exposure limits are not defi can greatly vary.		Exposure symptoms: Symptoms and physical findings associated with heavy metal poisoning vary accordin to the metal accumulated. Many of the heavy metals, such as zinc, copper, chromium, iron and manganese are essential to body function in very small amounts. If these metals accumulate in the body in concentrations sufficient to cause poisoning, then serious damage may occur.			
OSHA Exposure Limits**	NIOSH Exposure Limits**	ACGIH Exposure Limits**	IDLH Level**:		
PEL:	REL:	TLV:			
STEL:	STEL:	STEL: Ionization Potential (in eV			
Other: Click here to enter text.	Other:	Other: Click here to enter text.			
Material name: Petroleum Hy	ydrocarbon	Highest reported concentration*: previously ND			
Primary hazards: Low levels found in soil exposure lin because concentrations can site sample results were no	greatly vary. Previously,	Exposure symptoms: <b>Potential Symptoms:</b> Irritation of eyes, skin, respiratory tract; dizziness, headache, nausea; chemical pneumonitis (from aspiration of liquid); dry, red skin; irritant contact dermatitis; eye redness, pain Health Effects: Irritation-EyesMild (HE-16); Kidney damage (HE3), Potential lung damage (HE- 10); Suspected carcinogen (Marine diesel fuel) (HE2			
OSHA Exposure Limits**	NIOSH Exposure Limits**	ACGIH Exposure Limits**	IDLH Level**:		
PEL: Click here to enter text.	<b>REL:</b> Click here to enter text.	TLV: 300 ppm	Click here to enter text.		
<b>STEL:</b> Click here to enter text.	<b>STEL:</b> Click here to enter text.	STEL: 500 ppm	Ionization Potential (in eV):		
Other: OSHA does not have a PEL for diesel fuel, but it is designated as an OSHA Select Carcinogen.	Other: Click here to enter text.	<b>Other:</b> Click here to enter text.	Click here to enter text.		
Material name: Radium		Highest reported concentration*: Click here to enter text.			

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Primary hazards: Low levels Exposure limits are not def agencies. Previously, site st detect.	Exposure symptoms: Radium is a chemical used mainly as an anti-cancer agent . Ingestion and other exposures to the chemical can cause various symptoms. The type and severity of symptoms varies depending on the amount of chemical involved and the nature of the exposure.					
OSHA Exposure Limits**	NIOSH Exposure	Limits**	ACGIH Exposure Limits**	IDLH L	evel**:	
PEL: Click here to enter text.	REL: Click here t	o enter text.	TLV: Click here to enter text.	Click he	re to enter te	ext.
<b>STEL:</b> Click here to enter text.	<b>L</b> : Click here to enter text. <b>STEL</b> : Click here to enter text.		<b>STEL:</b> Click here to enter text.		on Potential	
Other: Click here to enter text.	Other: Click here	to enter text.	Other: Click here to enter text.	Click he	re to enter te	ext.
Material name: Click here to en	ter text.		Highest reported concentration*	Click h	ere to enter	text.
Primary hazards: Click here to e	Exposure symptoms: Click here	to enter	text.			
OSHA Exposure Limits**	NIOSH Exposure	Limits**	ACGIH Exposure Limits**	IDLH L	evel**:	
PEL: Click here to enter text.	REL: Click here t	o enter text.	TLV: Click here to enter text.	Click he	re to enter te	ext.
<b>STEL:</b> Click here to enter text.	STEL: Click here	to enter text.	<b>STEL:</b> Click here to enter text.	Ionization Potential (in eV):		(in eV):
Other: Click here to enter text.	to enter text.	Other: Click here to enter text.	Click here to enter text.			
NIOSH Recommended Exposure Li ACGIH Threshold Limit Values (TI Personal Protective Equi	(PEL) and Short Ten mits (REL), STELs, LV) and STELs; cont pment	and Immediatel act your Divisio	mits (STEL); https://www.osha.gov/d y Dangerous to Life and Health (IDL on H&S Leader for additional informa- quired on site at all times. NA = 1	H); http:// ation on th	www.cdc.gov lese values.	
Equipment	Req	NA NA	Supplies		Req	NA
Steel-toed Boots			Inner Chemical Gloves			
Outer Disposable Boots		$\boxtimes$	Outer Chemical Gloves			$\boxtimes$
Long Sleeve Shirt/Pants			Leather or Kevlar Gloves		$\boxtimes$	
Tyvek Suit		$\boxtimes$	Safety Glasses/Goggles		$\boxtimes$	
Poly-Coated Tyvek Suit		$\boxtimes$	Face Shield			$\boxtimes$
Fully Encapsulated Chemical Su	it 🗆	$\boxtimes$	Hearing Protection			$\boxtimes$
Flame Resistant Clothing/Covera	alls 🗌	$\boxtimes$	Half-face Respirator			$\boxtimes$
High Visibility Traffic Vest	$\boxtimes$		Full-face Respirator			$\boxtimes$
Hard Hat	$\square$		If either half or full-face respirator checked:			
Other (specify): Click here to en text.	ter 🗌		<ul> <li>Define cartridge type: Click h</li> <li>Define cartridge change frequ</li> </ul>			nter text.

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Respirator selection should be based on the Assigned Protection Factor (APF) and the Maximum Use Concentration (MUC). To determine the appropriate respirator selection, the lowest appropriate published exposure guideline should be known. The Division H&S Leader or project H&S consultant can provide assistance in defining the APF and MUC, as necessary. They can also assist in defining actions levels and cartridge change schedules when air-purifying respirators are used. Note that cartridge change schedules must be outlined above and in the JHA for any task requiring respiratory protection.

Use of respiratory protection requires three elements: training in respiratory protection techniques, completion of medical surveillance confirming that you are fit to wear a respirator, and fit testing with the make and model of respirator you will be using. Refer to S3-NAM-026-PR (*Respiratory Protection*) for additional information.

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<i>Req</i> = <i>Required</i> ; <i>requirements are based on the specific tasks performed in the field and the type of environments, chemicals, or hazards encountered. NA</i> = <i>Not applicable to this project.</i>							
Training	Req	NA	Medical Surveillance**	Req	NA		
40-Hour Hazwoper	$\boxtimes$		Medical Clearance	$\boxtimes$			
Current 8-hour Hazwoper Refresher	$\boxtimes$		Respirator Clearance and Fit Test		$\boxtimes$		
8-Hour Hazwoper Supervisor*		$\boxtimes$	Blood Lead and ZPP		$\boxtimes$		
Current First Aid/CPR	$\boxtimes$		Other (specify): Click here to enter text.				
40-Hour MSHA New Miner		$\boxtimes$	Other (specify): Click here to enter text.				
Current 8-hour MSHA Refresher		$\boxtimes$	Safety Supplies	Req	NA		
ERM Field Safety Officer (FSO)	$\boxtimes$		First Aid Kit	$\boxtimes$			
DDD Practice FSO/DM		$\boxtimes$	Eyewash Solution (15 minute flush)	$\boxtimes$			
Subsurface Clearance (SSC)	$\boxtimes$		Air Horn		$\boxtimes$		
EPA Hazardous Waste		$\boxtimes$	Decontamination Supplies	$\boxtimes$			
Hazmat/Dangerous Goods Shipping		$\boxtimes$	Fire Extinguisher	$\boxtimes$			
International Traveler		$\boxtimes$	Potable Water	$\boxtimes$			
Other (specify): Click here to enter text.			Toilets		$\boxtimes$		
Other (specify): Click here to enter text.			Other (specify): decontamination supplies are for sampling equipment.				

I hysical examination requirements should be discussed with workeare wen in advance of project to anow adequate time to schedule exami

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### Monitoring Equipment

All monitoring equipment on site must be calibrated per manufacturer specifications (including daily bump tests) and results recorded. Under stable conditions, measurements must be made in the breathing zone at least once every 30 minutes.

Combustible Gas Indicator	Reading	Action Guideline	Comments
Check if required:	0 to 10% LEL	Monitor. Evacuate if confined space.	Click here to enter text.
Model: Click here to enter text.	10 to 25% LEL	Potential fire or explosion hazard.	
Task number(s): Click here to enter text.	>25% LEL	Fire/explosion hazard. Evacuate.	
Oxygen Meter	Reading	Action Guideline	Comments
Check if required: $\Box$	>23.5%	Fire hazard. Evacuate.	Click here to enter text.
Model: Click here to enter text.	23.5 to 19.5%	Normal oxygen levels.	
Task number(s): Click here to enter text.	<19.5%	Oxygen deficient conditions. Evacuate.	
Radiation Survey Meter	Reading	Action Guideline	Comments
Check if required: $\Box$	Normal background	Proceed with normal operations.	Annual exposure not to exceed 1250 mrem per quarter.
Model: Click here to enter text.	3x background	Notify Radiation Safety Officer.	Background reading must be taken in an area known to be
Task number(s): Click here to enter text.	>3x background	Radiological hazard. Evacuate.	free of radiation sources.
Photoionization Detector	Reading	Action Guideline	Comments
	Any response		
Check if required: □	below Click here to enter text. ppm, sustained for 1 minute	Level "D" PPE is acceptable up to the action level. For response above established background level(s), appropriate level PPE requirements must be met.	The action level for upgrading the level of protection is typically <sup>1</sup> / <sub>2</sub> the lowest
Check if required: Model: Click here to enter text.	below Click here to enter text. ppm, sustained for 1	level. For response above established background level(s), appropriate level PPE	the level of protection is

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Flame Ionization Detector	Reading	Action Guideline	Comments	
Check if required:	Any response below Click here to enter text. ppm, sustained for 1 minute	Level "D" PPE is acceptable up to the action level. For response above established background level(s), appropriate level PPE requirements must be met.	The action level for upgrading the level of protection is typically ½ the lowest	
Model: Click here to enter text.	Click here to enter text. ppm to Click here to enter text. ppm, sustained for 1 minute	Level "C" is acceptable as appropriate.	published exposure limit for the potential COCs at the site. For COCs with extremely low exposure limits (e.g., <5 ppm), contact your Division H&S Leader for guidance on action levels.	
Task number(s): Click here to enter text.	Greater than Click here to enter text. ppm above background, sustained for 1 minute	Stop work. Tasks requiring Level B or Level A PPE are not anticipated during this project. If Level B or Level A PPE is needed, as determined by the FSO and/or the PM, the Division H&S Leader will be notified and the HASP will be revised.	See end of this section for additional information on respirator selection.	
Colorimetric Detector Tubes	Reading	Action Guideline	Comments	
Check if required:				
Model: Click here to enter text.	Specify: Click here to enter	Specify: Click here to enter text.	Click here to enter text.	
Task number(s): Click here to enter text.	text.			
<b>Other (specify):</b> Click here to enter text.	Reading	Action Guideline	Comments	
Check if required:	~			
Model: Click here to enter text.	Specify: Click here to enter	Specify: Click here to enter text.	Click here to enter text.	
Task number(s): Click here to enter text.	text.			

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#### Work Zones

Complete if exclusion zones are necessary because of chemical and/or equipment hazards. Describe the set-up of these zones. Include landmarks, dimensions (as necessary), and whether they are for equipment or personnel decontamination.

Exclusion Zone: NA. Very low at or below non detect levels.

Contamination Reduction Zone: NA

Support Zone: NA

### Site Access/Control

Describe procedures for limiting unauthorized entry to the work zone(s). Describe any security requirements.

Access Control Procedures: NA. Site is remote. Only facility personnel will have access to the sampling area, client will be oniste during sampling.

#### **Decontamination Procedures**

Describe procedures for the decontamination of personnel and equipment.

Personnel: ERM employees will take care not to take soils from the pond area into other areas and rinse boots if necessary before mobilization.

Equipment: Equipment will be decontaminated with brushes and equinox followed by DI water. Rinsing fluids will be caught in a bucket and properly disposed of by client facility staff.

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#### **Spill Prevention and Response**

Ensure all chemical containers on site are labeled and lids are secured when not in use. When transferring chemicals from one container to another, or when refueling vehicles or equipment, provide containment beneath the transfer point to capture potential spills. Immediately report all chemical spills to the PIC/PM and submit an ECS entry with 24 hours.

Will ERM staff or ERM-hired contractors possess containerized chemicals on the project site?  $\boxtimes$  Yes  $\square$  No

Will container size be greater than or equal to one gallon?  $\Box$  Yes  $\boxtimes$  No

If the answer to both of these questions is Yes, follow the requirements outlined in ERM Procedure S3-NAM-042-PR (*Spill Prevention and Response*)?

#### Waste Management Planning

Will ERM's project activities generate waste materials?  $\square$  Yes  $\square$  No

Will ERM undertake some level of contractual responsibility for handling waste for the client? 
Yes 
No

If the answer to either of these questions is Yes, follow the requirements outlined in ERM Procedure S3-NAM-038-PR (*Waste Management Planning*).

Describe any waste reduction/minimization techniques to be used on the site: Very little waste will be created. What waste is created will be handled by the client.

#### **Client-Specific Emergency Response**

In the event of an emergency, client-specific emergency response procedures may take precedence over ERM established procedures.

While engaging in field-related activities on an active client site, measures they have in place to signal either emergency response or evacuation need to be reviewed and documented.

Once completed, this summary should be discussed with all visitors, contractors, and others subject to HASP review upon site visit.

Contributing factor initiating emergency response (process, material, weather): Emergency at site manufacturing facility could occur and client site contact will notify ERM field staff of Emergency alarms, lights, and/or sounds associated with an emergency.

Lights and/or sounds associated with evacuation: see above.

Drill requirements for contractors on-site: NA

Initial and alternative muster points: Client site contact will inform ERMers of muster point locations in the case of an emergency.

Specific evacuation procedures: Site/client specific procedures will be disucssed at the site with the site contact upon arrival.

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Method for accounting for site visitors: ERMers will check in with a the site contact at the facility (sign in-sign out)
PPE and spill kit requirements (if emergency response is spill related): Level D PPE will be on hand for all field
personnel.

Map associated with evacuation attached?  $\Box$  Yes  $\boxtimes$  No

### **Emergency Contacts**

All ERM employees are empowered to pause or stop work to address any unsafe acts/conditions, questions, concerns or changed conditions. All work-related safety events should be shared with the project team and promptly entered into the Event Communication System (ECS).

FOR ALL MEDICAL EMERGENCIES, CALL 911 OR THE LOCAL EMERGENCY NUMBER.

#### For ALL non-emergency incidents resulting in any injury or illness, you must:

- *Give appropriate first aid care to the injured or ill individual and secure the scene.*
- Immediately notify the PM, PIC, and the H&S Team.
- At direction of PM, PIC, or H&S Team, call WorkCare Incident Intervention at (888) 449-7787 (available 24 hours/7 days per week in US only).
- Clients may have their own procedures which we may need to follow.

For all incidents (injuries, illnesses, spills, fires, property damage, etc.) and significant near misses, enter the event into ECS within 24 hours.

Contact	Name	Location	Phone
Hospital (attach map)	Bastow Community Hospital	820 E Mountain View St, Barstow, CA 92311	760-255-3200
Police	Barstow PD	220 E Mountain View	911 or 760-256-2211
Fire	Daggett FD	33702 2nd Street	911 or 760-254-5474
Incident Intervention	WorkCare	NA	888-449-7787
	Store Williams	Invine CA	Work: 949-623-4674
Partner-in-Charge	Steve Williams	Irvine, CA	Cell: 949-294-0835
			Work: 949-623-4689
Project Manager	Marlene Duffy	Irvine, CA (on site)	Cell: 714-234-9156
Eistd Manager (if not DM)	Maggia Tymlroyy	Click have to anten terrt	Work: Click here to enter text.
Field Manager (if not PM)	Maggie Tymkow	Click here to enter text.	Cell: Click here to enter text.
Eight Safety Officer (if not DM)	Maasia Temlean	Click have to anten terrt	Work: 949-623-4706
Field Safety Officer (if not PM)	Maggie Tymkow	Click here to enter text.	Cell: 562-882-4402
SSC Experienced Democr	Maggia Tumkow	Click have to enter text	Work: Click here to enter text.
SSC Experienced Person	Maggie Tymkow	Click here to enter text.	Cell: Click here to enter text.

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Division H&S Contact	Steven Perkins	Invine CA	Work: 949-623-4700
Division H&S Contact	Steven Perkins	Irvine, CA	Cell: 714-928-3608
Decion II & C Director	Mork Hickory	Colorado	Work: 720-200-7172
Region H&S Director	Mark Hickey	Colorado	Cell: 720-625-2869
Sach a sector store Countrast	ΝΙΑ		Work: Click here to enter text.
Subcontractor Contact	NA	Click here to enter text.	Cell: Click here to enter text.
	Leff Determ		Work:
Client Contact	Jeff Peters		Cell: 760-250-8060
Additional Contact	N A	Click have to anter tout	Work: Click here to enter text.
Additional Contact	NA	Click here to enter text.	Cell: Click here to enter text.

### Acknowledgement

I have read, understood, and agree with the information set forth in this health and safety plan (HASP), and will follow guidance in the plan and in ERM's Document Control System (DCS). I understand the training and medical monitoring requirements (if any) for conducting activities covered by this HASP and have met these requirements.

ERM has prepared this plan solely for the purpose of protecting the health and safety of ERM employees. Contractors, visitors, and others at the site are required to follow provisions in this document at a minimum, but must refer to the organization's health and safety program for their protection.

Printed Name	Signature	Organization	Date
Approval Signatures		Project Manager	Date

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Signatures in this section indicate the signing employee will comply with and enforce this HASP, as well as procedures and guidelines established in ERM's DCS. Signatures also indicate that any subcontractors performing work under contract to ERM have met the minimum safety standards in S3-NAM-030-PR (Contractor Management).	Typed Name: Marlene Duffy Signature File:	Click here to enter a date.
	Partner-in-Charge	Date
	Typed Name: Steve Williams	
	Signature File:	Click here to enter a date.

	Applica	ability:	Form	<b>Document Number:</b>	Version:
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<b>Attachments</b> <i>Check all appropriate documents to be attached to this HASP.</i>	
□ Site-specific JHAs for all tasks (including contractors)	$\boxtimes$ Map of route to hospital with turn-by-turn instructions
Subsurface Clearance (SSC) Project Plan	$\Box$ Facility site map(s)
Site Safety Meeting Form (S3-NAM-029-FM5)	□ SNAP Cards
☑ Vehicle Inspection Forms (S1-ERM-008-FM2)	□ Project/Field Audit Checklist (M1-ERM-016-FM3)
Journey Management Plans (S1-ERM-008-FM1)	□ Industrial Hygiene Sample Data (S3-NAM-005-FM1)
☑ Safety Data Sheets (SDS) for chemicals brought to site	□ Ambient Air Monitoring Form (S3-NAM-005-FM2)
$\square$ Information on chemicals of concern (ICSC cards or like)	□ Client-specific requirements
PLAN Risk Assessment	□ <b>Other:</b> Click here to enter text.

## Applicable ERM Safety Standards/Procedures

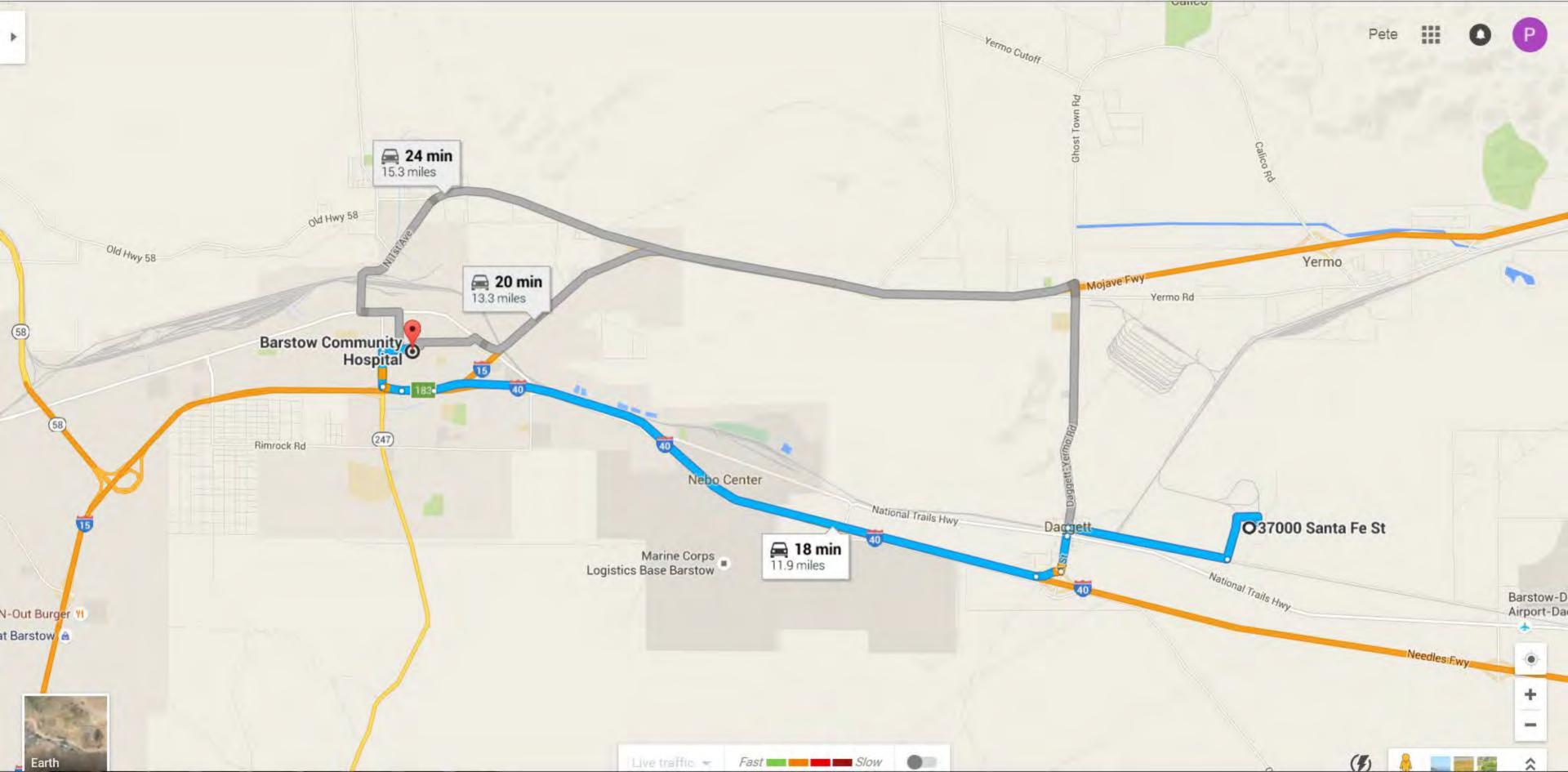
Check all that procedures/standards that are applicable to this project. Refer to the standards/procedures for guidance and, where applicable, use forms, work instructions, and guideline documents associated with these standards/procedures in the completion of site work. Copies of all standards/procedures must be procured from ERM's Document Control System.

Global (Tier I) Standards/Procedures	
Short Service Employees (S1-ERM-003-PR)	□ Travel Risk Assessment (S1-ERM-005-ST)
□ Offshore Platform Safety (S1-ERM-006-ST)	Subsurface Clearance Standard (S1-ERM-007-ST)
Driver and Vehicle Safety (S1-ERM-008-PR)	□ Fixed Wing Aircraft/Helicopter Travel (S1-ERM-009-ST)
Local (Tier III) Standards/Procedures	
Demolition (S3-NAM-004-PR)	□ Excavation and Trenching (S3-NAM-008-PR)
□ Fall Protection (S3-NAM-009-PR)	□ Setting Occ. Exposure Guidelines (S3-NAM-010-PR)
Hazard Communication (S3-NAM-011-PR)	□ Ladder Safety (S3-NAM-012-PR)
Cold Stress (S3-NAM-013-PR)	□ Hearing Conservation (S3-NAM-014-PR)
Heat Stress (S3-NAM-015-PR)	□ Incident Reporting and Investigation (S3-NAM-016-PR)
□ Medical Services (S3-NAM-019-PR)	□ Medical Surveillance (S3-NAM-020-PR)
Personal Protective Equipment (S3-NAM-021-PR)	□ Hot Work (S3-NAM-023-PR)
□ Regulatory Inspection (S3-NAM-024-PR)	□ Respiratory Protection (S3-NAM-026-PR)
Contractor Management (S3-NAM-030-PR)	Contractor Management (S3-NAM-030-PR)
□ High Risk Activity Driving (S3-NAM-031-PR)	Hand Tools/Portable Power Equipment (S3-NAM-033-PR)
Electrical Safety (S3-NAM-035-PR)	□ Incident/Illness Management (S3-NAM-037-PR)
U Waste Management Planning (S3-NAM-038-PR)	□ Energy Isolation (S3-NAM-039-PR)
□ Working Over Water (S3-NAM-041-PR)	□ Spill Prevention and Response (S3-NAM-042-PR)
□ Fatigue Management (S3-NAM-044-PR)	□ Cutting Tools and Hand Safety (S3-NAM-047-PR)
Lone Worker (S3-NAM-048-PR)	Compressed Gas Cylinders (S3-NAM-049-PR)

Uncontrolled when printed. Controlled version available on Minerva.

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See It; Own It; Share It	Stop Work Authority
<ul> <li>It means that:</li> <li>We know that we have a responsibility to look out for each other, to intervene when necessary, to be proactive and to help keep safety issues from becoming problems.</li> <li>We also look out for ourselves. If we recognize that a situation is unsafe, we are expected to stop what we're doing, reassess the situation and consult with others if necessary before proceeding safely.</li> <li>We assign no blame to anyone who raises safety issues.</li> <li>We strive to learn lessons from the large and small events that are part of our daily experience.</li> </ul>	<ul> <li>It is ERM policy that all ERM and ERM Contractor employees have the authority, without fear of reprimand or retaliation to:</li> <li>Immediately stop any work activity that presents a danger to the site team or the public.</li> <li>Get involved, question and rectify any situation or work activity that is identified as not being in compliance with the HASP or with broader ERM health and safety policies.</li> <li>Report any unsafe acts or conditions to supervision or, preferably, intervene to safely correct such acts or conditions themselves.</li> </ul>



# Google Maps

## 37000 Santa Fe St, Daggett, CA 92327 to Dr Barstow Community Hospital

Drive 11.9 miles, 18 min

		Map data ©2016 Google	2 mi
		Santa Fe St CA 92327	
Get	on I-4	40 W from Santa Fe St	
1	1.	Head north toward Santa Fe St	8 min (3.4 mi)
Ļ	2.	Turn right onto Santa Fe St	0.8 mi
4	3.	Turn left onto Daggett-Yermo Rd	1.8 mi
t	4.	Continue onto A St	476 ft
*	5.	Turn right to merge onto I-40 W toward Barstow	0.4 mi
Follo	ow I-4 6.	40 W to Barstow Rd in Barstow. Take exit 183 from I-15 S Merge onto I-40 W	0.3 mi 7 min (7.8 mi)
*	7.	Use the right lane to merge onto I-15 S	
r	8.	Use the right lane to take exit 183 for CA-247/Barstow Rd	
Cont	tinue	on Barstow Rd. Drive to Lance Dr	0.2 mi
<b>r</b> ≯	9.	Turn right onto Barstow Rd	3 min (0.7 mi)
L,	10.	<ul> <li>Turn right onto Lance Dr</li> <li>Destination will be on the right</li> </ul>	0.4 mi
			0.3 mi

## **Barstow Community Hospital**

820 East Mountain View Street, Barstow, CA 92311



JHA Job Hazard Analysis

Project Number:	029	0120				NRG Coolwater					
Project Manager:	Mar	rlene Dawes	Location:			Co	Coolwater Generating Station 37000 Santa Fe St. Daggett, CA				
Partner-in-Charge:	Stev	ve Williams	Date and Revision Number:			3/3	3/30/16 Rev. 1				
SPECIFIC TASK:											
Minimum Required PPE for Entire Task:	mum Required PPE for Entire Task: Safety Glasses Reflective Vest Gloves nitrile					<enter and<="" td="" type=""><td>nd cartri</td><td>idge type&gt;  Cher (specify):</td></enter>	nd cartri	idge type>  Cher (specify):			
Additional Task-Step Specific PPE: (as indicated below under Controls)	none	e		Equipment / T	Fools Require	ed:	Har	nd auger			
Training Required for this Task:	none	e		Permits Requ	ired for this T	Fask:					
Forms Associated with This Task:	none	e									
		JHA Developed / Reviewed By:						JHA Review In Field			
Name / Job Title:		Name / Job Title:		Name / Job T	itle:			Field Safety Officer (FSO) to ensure all personnel performing this task have reviewed JHA and agree to follow it. Site-specific changes to this JHA have been made as			
Steve Ossim/Assoc Geologist		Pete Grasso/ Staff Engineer						warranted based on this review. <u>FSO Signature/Date:</u>			
								-			
Task Steps <sup>1</sup>	Pot	tential Hazards & Consequences <sup>2</sup>	select	Likelihood	Severity	RISK	Co	ntrols to Eliminate or Reduce Risks <sup>3</sup>			
1 All Site Visits	1	General Hazards	multiple	2	4	8	1	Wear long-sleeved clothing, steel-toed boots, refletive vest, and safety glasses at all times.			
2 Soil Sampling	2a	Dermal Contact with Contaminated					2a	Wear PPE (e.g., nitrile gloves to handle hydrocarbons) required for contact with			
	┢	Materials	H&S	3	3	9	ŀ	affected materials. Refer to HASP to determine constituents of concern for the site to determine the appropriate type of PPE. If clothing becomes wet or saturated with liquid, hydrocarbons, waste, etc., remove clothing immediately, wash affected area, and change into dry clothing before			
	_				<b> </b>			completing work.			
								Containerize all fluids during decontamination procedures to minimize contact with contaminated materials.			
								Do not stand near other samplers or those performing decontamination procedures to avoid contact with contaminated materials.			
	2b	Airborne Particulates and Debris	H&S	3	3	9	2b				
								If prescribed by the HASP, monitor air concentrations in the breathing zone using direct-reading, real-time instruments such as OVM, Draeger tubes, and/or Mini-Ram as outlined in the Ambient Air Monitoring section of HASP.			
	-							If hazardous conditions are identified, stop work until precautions are taken. Wear PPE including face shield or safety glasses with side shields, nitrile or PVC gloves and long sleeves.			
								Use water to control dust in area if doing so will not create other hazards on site (slipping, environmental impact, etc.).			
								If prescribed by the HASP, monitor air concentrations in the breathing zone using direct-reading, real-time instruments such as OVM, Draeger tubes, and/or Mini-Ram as outlined in the Ambient Air Monitoring section of HASP.			
	2c	Pinch Hazard Sampling Tools	H&S	3	3	9	2c	One person must operate the extruder while the second person receives the core.			
	1							Wear PPE including leather or ASTM Blade Cut Resistant Level 2 work gloves when operating soil sample extruder			

Task Steps <sup>1</sup>		Potential Hazards & Consequences <sup>2</sup>			Likelihood	Severity	RISK	Controls to Eliminate or Reduce Risks <sup>3</sup>			
								Workers shall not place hands within 18 inches of mechanically actuated or rotating equipment, and equipment must be de-energized and locked out before handling.			
								Keep hands 18 inches away from pinch points and rough or sharp sample tube edges.			
		24	Sharp Sampling Tools	H&S	3	3	9	2d Keep hands away from cutting surfaces of tools.			
		zu		1183	5	5		When opening sleeve (for samples collected while drilling or geoprobing), cut away from body. Use leather, ASTM Blade Cut Resistant Level 2 work gloves when using facility approved utility knife, keep hands away from pinch points and sharp tool edges.			
		l						When collecting samples from a hand auger bit, keep hands away from sharp edges of auger.			
								Do not use glass sample jars with broken or jagged edges.			
								Only use scissor or cutting tools with shielded blade.			
		2e	Physical Injury from Managing Equipment	H&S	3	3	9	2e Use the proper tool for the job (e.g., hammer for striking, etc.).			
						-		Position hands/fingers away from work area when using tool.			
								Avoid repetitive motion and overstraining muscles.			
								Wear PPE including leather or ASTM Blade Cut Resistant Level 2 work gloves.			
		2f	Cross Contamination	PL	1	3	3	2f Decontaminate or dispose of sampling equipment between sampling locations. Double-check sample labels to ensure accuracy and adhesion to containers.			
3	Decontaminate Equipment	3a	Dermal Contact with Contaminated Materials	H&S	3	3	9	3a See above.			
		3b	Airborne Particulates and Debris	H&S	3	3	9	3b See above.			
		3c	Sharp Sampling Tools	H&S	3	3	9	3c See above.			
4	Waste Disposal	4	General Hazards	multiple	3	3	9	<ol> <li>Refer to Waste Management JSA for descriptions of Job Steps, Potential Hazards, and Controls.</li> </ol>			
5	Heat Stress	5	Heat Stress	H&S	3	4	12	5 Check the weather forecast in advance & be prepared for those conditions Schedule regular breaks, watch your colleagues using the buddy system. Use sun block for skin protection, drink cool drinks regularly (i.e.: before you become thirsty), take breaks in the shade or vehicle Stop work if fatigue or physical stress situations develop in your or those around you			

	Task Steps <sup>1</sup>	Potential Hazards & Consequences <sup>2</sup>	Likelihood	Severity	RISK	Controls to Eliminate or Reduce Risks <sup>3</sup>
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ONE JHA PER TASK. SUBCONTRACTORS MUST PROVIDE THEIR OWN JHAS. JHAS SHOULD BE WRITTEN IN PLAIN LANGUAGE AND SHOULD BE NO MORE THAN 2-3 PAGES IN LENGTH. INSERT ADDITIONAL ROWS AS NEEDED ABOVE (MUST MANUALLY COPY AND PASTE FORMULA IN COLUMN H). ROW HEIGHTS MAY NEED TO BE MANUALLY EXPANDED TO VIEW ALL TEXT. LEAVE SEVERAL BLANK OVERSIZED ROWS TO ALLOW HANDWRITTEN FIELD ADDITIONS. CAN ALSO DELETE UNNEEDED ROWS TO FIT PAGE(S).

1. Each task consists of a set of steps. List and number all the steps in the sequence they are performed. Specify the equipment or other details.

2. List potential health & safety hazards and consequences - ONE PER ROW - and select "H&S" from the drop-down list. Then list any potential security, environmental, and/or property loss impacts - ONE PER ROW - and select the corresponding code(s) from the drop-down list. Use numbers and letters for each hazard/impact listed (1a, 1b, etc.). Hazards should be described in terms of their specific origin and negative consequences (e.g., instead of "moving equipment", write "injury from getting struck by forklift").

3. Describe the specific actions or procedures that will be implemented to eliminate or reduce each hazard. Be clear, concise, and specific. Use objective, observable, and quantified terms (e.g., instead of "use good body positioning," write "don't bend at waist or reach above head"). Use numbers and letters corresponding to listed hazards.

4. Select the likelihood of occurrence and severity of each hazard, <u>AFTER</u> implementation of the planned control measures (use the Risk Matrix as a guide). The corresponding risk rating will then be automatically calculated [RISK = Likelihood x Severity]. A risk rating shaded red indicates that work cannot continue without additional control measures and approval of Partner-in-Charge.

#### WAYS TO ELIMINATE OR REDUCE RISKS (IN ORDER OF PREFERENCE):

ELIMINATE / AVOID --> SUBSTITUTE / MODIFY --> ISOLATE --> ENGINEER / SAFEGUARD --> TRAINING AND PROCEDURES --> WARNING AND ALERT MECHANISMS --> PPE



JHA Job Hazard Analysis

Project Number:	029	0120	Project / C	lient Name:		NR	G Coolwater			
Project Manager:	Mar	lene Dawes	Location:	Location:			coolwater Generating Station 37000 Santa Fe St. Daggett, CA			
Partner-in-Charge:	Stev	ve Williams	Date and F	Date and Revision Number: 3/3			30/16 Rev. 1			
SPECIFIC TASK:										
Hard Hat Safety-Toe Shoes Hearing Protection Gog				Shield Respirator	<enter an<="" td="" type=""><td>d cartrio</td><td>dge type&gt; Other (specify):</td></enter>	d cartrio	dge type> Other (specify):			
Minimum Required PPE for Entire Task:	_	afety Glasses Reflective Vest Gloves <- enter type here:					<pre>so yru so yru &lt;, FRC, long sleeves)&gt;</pre>			
Additional Task-Step Specific PPE:						1				
(as indicated below under Controls)	none	2	Equipment	t / Tools Require	ed:	non	e			
Training Required for this Task:	Permits Re	equired for this	Task:	Driv	ver's License					
Forms Associated with This Task:										
		JHA Developed / Reviewed By:					JHA Review In Field			
Name / Job Title:		Name / Job Title:	Name / Jol	b Title:			Field Safety Officer (FSO) to ensure all personnel performing this task have reviewed			
Steve Ossim/Assoc Geologist		Pete Grasso / Staff Engineer					JHA and agree to follow it. Site-specific changes to this JHA have been made as warranted based on this review. FSO Signature/Date:			
							warranted based on this review. FSU Signature/Date:			
			-				1			
		I	<u> </u>		-					
Task Steps <sup>1</sup>	Potential Hazards & Consequences <sup>2</sup>			od Severity	RISK		ontrols to Eliminate or Reduce Risks <sup>3</sup>			
1 Vehicle Inspection	1a	Unsafe Vehicle H&S	2	3	6	1a	Before entering vehicle, inspect vehicle for body damage.			
						-	Before entering vehicle, check tires for inflation and tread.			
	-		-	_		-	Before entering vehicle, check under vehicle for leaks/obstructions. Before driving, check to see that registration/insurance/last maintenance report			
							are current and present.			
							Before driving, check to verify that horn, lights, and instrument panel are operational.			
							Before driving, check wipers and washer; clean windows; and adjust mirrors .			
						_	Before driving, secure all loose items.			
						-	Before driving, adjust seat, head rest, and mirrors. Before driving, driver and passengers must fasten seat belts/shoulder			
							harness.			
	1b	Vehicle Problems on Long Journey (>100 miles)	1	4	4	1b	Before driving, check fluid levels in vehicle.			
							Before driving, verify that fire extinguisher, traffic triangles, first aid kit, jack, and spare tire are in vehicle.			
2 Driving	2a	Inattentive Driving H&s	1	4	4	2a	Keep eyes on roadway at all times.			
							Yield right-of-way to others and allows other vehicles to merge, change lanes, turn,			
						-	etc. Respect pedestrians, cyclists, other drivers.			
							Remain courteous and tolerant of others' poor driving.			
	2b	Unsafe Operation of Vehicle H&s	1	4	4	2b	Keep two hands on wheel at 9 and 3 o'clock positions.			
							Do not answer cell phone or pager while driving, do not read or answer text messa while driving, and do not change radio stations while vehicle is moving.			
							Adjust to traffic conditions, including driving below the speed limit on congested roadways.			
			<b>_</b>				Use turn signals when turning or switching lanes.			
<b></b>						-	Maintain safe following distance behind other vehicles (4-second rule). Follow posted speed limits, and reduce speed as necessary due to road conditions.			
							r onow posted speed innits, and reduce speed as necessary due to road conditions.			
	1						Before backing up, look behind vehicle/checks for traffic, pedestrians, and parked vehicles.			
	2c	Failure to Scan Roadway H&S	3	3	9	2c	Scan the road ahead (2-3 blocks or 1/4 mile) and anticipate actions of others to avoid sudden swerves, stops, lane changes, tight merges, etc.			

Task Steps <sup>1</sup>	Potential Hazards & Consequences <sup>2</sup>	select	Likelihood	Severity	RISK	Controls to Eliminate or Reduce Risks <sup>3</sup>
						Check mirrors every 5-8 seconds and stay out of other drivers' blind spots.
						Check for hazards on the road, e.g., animals, debris, and road conditions.
						Read and obey traffic signals.
	2d Abrupt Slowing and Stopping	H&S	3	2	6	2d Make complete stop at signals, at a safe distance; allow front vehicle to move before accelerating.
						Scan intersection left and right; anticipate intent of other vehicles before reaching "point of no return."
						Cover brakes safely and adjust speed.
	2e Unsafe Merging and Lane Changes	H&S	3	3	9	2e Use signals, check blind spots, and leave adequate space before pulling back into lane.
3 Parking	3 Unsafe Operation of Vehicle	H&S	1	4	4	3 Obey signs and use signals in parking lot.
						Maintain proper speed inside the lot.
						Ensure vehicle is legally/properly parked.
						Set parking brake and secure vehicle.
						Use wheel chocks on sloped terrain.
						Park to allow a forward exit from the parking spot unless limited by parking lot
		_				configuration, parking attendant, or other controlling factor.

ONE JHA PER TASK. SUBCONTRACTORS MUST PROVIDE THEIR OWN JHAS. JHAS SHOULD BE WRITTEN IN PLAIN LANGUAGE AND SHOULD BE NO MORE THAN 2-3 PAGES IN LENGTH. INSERT ADDITIONAL ROWS AS NEEDED ABOVE (MUST MANUALLY COPY AND PASTE FORMULA IN COLUMN H). ROW HEIGHTS MAY NEED TO BE MANUALLY EXPANDED TO VIEW ALL TEXT. LEAVE SEVERAL BLANK OVERSIZED ROWS TO ALLOW HANDWRITTEN FIELD ADDITIONS. CAN ALSO DELETE UNNEEDED ROWS TO FIT PAGE(S).

1. Each task consists of a set of steps. List and number all the steps in the sequence they are performed. Specify the equipment or other details.

2. List potential health & safety hazards and consequences - ONE PER ROW - and select "H&S" from the drop-down list. Then list any potential security, environmental, and/or property loss impacts - ONE PER ROW - and select the corresponding code(s) from the drop-down list. Use numbers and letters for each hazard/impact listed (1a, 1b, etc.). Hazards should be described in terms of their specific origin and negative consequences (e.g., instead of "moving equipment", write "injury from getting struck by forklift").

3. Describe the specific actions or procedures that will be implemented to eliminate or reduce each hazard. Be clear, concise, and specific. Use objective, observable, and quantified terms (e.g., instead of "use good body positioning," write "don't bend at waist or reach above head"). Use numbers and letters corresponding to listed hazards.

4. Select the likelihood of occurrence and severity of each hazard, <u>AFTER</u> implementation of the planned control measures (use the Risk Matrix as a guide). The corresponding risk rating will then be automatically calculated [RISK = Likelihood x Severity].

A risk rating shaded red indicates that work cannot continue without additional control measures and approval of Partner-in-Charge.

#### WAYS TO ELIMINATE OR REDUCE RISKS (IN ORDER OF PREFERENCE):

ELIMINATE / AVOID --> SUBSTITUTE / MODIFY --> ISOLATE --> ENGINEER / SAFEGUARD --> TRAINING AND PROCEDURES --> WARNING AND ALERT MECHANISMS --> PPE



## ERM Vehicle Safety Checklist

	Operator				D · · //		2.61			
Date			1	Project#		Mileage				
Vehicle Make/Model L	icense#					C	company Vehicle	e? 🗌 Y	🗌 N	
I. Inspection		В	efore Drivi	ng:			Commonto			
1. Inspection		OK Deficient N/					Comments			
Prior to Use, and Week	<u>ly Thereaft</u>	<u>er</u> for a	ll vehicles ı	used fo	or field work.					
All glass and mirrors										
Engine Fluids (oil, radia coolant)	ator									
Headlights (incl Hi/Lo	lights)									
Horn										
Instrumentation warning	ng lights									
Misc. vibration, noise, l										
(requires comment)										
Overall vehicle										
cleanliness/damage										
Reverse warning/alarn	1									
Seatbelts for all seats										
Tail Lights / Brake ligh	ts									
Tires - visual										
condition/tread/press										
Turn signal / hazard lig Under vehicle – leaks	gnts									
	11 1									
Windshield cleanliness and lack of damage/cracks										
Windshield wipers & fluid										
-	ti-lock	Air b		rst	Reflective		Spare tire and	Road		
	akes		a	id kit	safety vest		jack – in good	wari		
supplies/					(for all		condition (triangles flares)			
equipment Optional H&S		Ium	per cables		occupants) e Extinguisher		rch /		/	
supplies/equipment		յսուլ	ci cabies		e Extiliguistier	ishlight		L		

Name & signature of reviewer : .....

### **Safety Reminders**

- 1. Drive defensively scan road ahead and anticipate actions of other drivers.
- 2. Ensure sufficient rest before and during the trip. Take a 15 minute break after every 2 hours of continuous driving.
- 3. Seat belts to be worn by all passengers and driver at all times.
- 4. Adjust seat / mirrors / headrest / steering wheel and ensure clean windows with no obstructions; Secure loose items.
- 5. Eliminate distractions do not use mobile phones or any other electronic devices while driving. Refer to ERM's *Global Policy on Mobile/Cellular Telephone and Personal Digital Assistant (PDA) Use While in a Vehicle.*
- 6. Secure all loose loads.
- 7. Obey all posted road signs and speed limits.
- 8. Maintain safe following distance use "3-second rule." in good weather conditions. Adjust speed / following distance for adverse road/weather conditions.
- 9. Do not consume any alcohol or drugs, or any other substance or medication that could impair their ability to drive. Refer to ERM's *Global Policy on Drug and Alcohol Use*.

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	Applica	bility:	Form	<b>Document Number:</b>	Version:
	North America		FOIM	S3-NAM-029-FM5	2
ERM	Title:	Site Safety I	Meeting Form	Last Revision Date:	6/24/15

Project Name/ Location:			Phone:			
Project Number:			Т	Time:		
Meeting Leader:						
Today's Work Tasks(s)	Conducto	Conducted By:				

- 1. Review relevant sections of the Health and Safety Plan (HASP), Job Hazard Analyses (JHAs) for planned tasks, and any other applicable procedures. Discuss potential hazards of planned work and control measures to be used to eliminate or reduce risks (including PPE). Pay specific attention to overlapping/ simultaneous operations.
- 2. Review emergency response procedures including emergency phone numbers, location of emergency equipment (fire extinguishers, first aid kit, AED, eyewashes, safety showers, etc.), exit routes, muster points, methods of conducting head count at muster point, and identity of first responders trained in first aid/CPR.
- 3. Does everyone fully understand the task(s)? Are there any changes that need to be assessed? Use SNAP cards to assess risks associated with changed or unplanned tasks.
- 4. Remind the team that everyone on the job site is empowered to stop work if something is unsafe or if there are any questions or concerns regarding safety.

What tools and equipment are required for today's tasks? Have they been inspected and are they in good condition?

What training/qualifications/experience is necessary for today's assigned tasks?

List any new or Short Service personnel on site today:

Discuss any recent incidents, near misses, field inspection findings, or other safety observations (or observations from similar tasks performed at other sites):

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	Applicability:		Form	<b>Document Number:</b>	Version:
	North America		FOIM	S3-NAM-029-FM5	2
ERM	Title:	Site Safety I	Meeting Form	Last Revision Date:	6/24/15

	Additional Safety Meeting Topics (check those discussed)				
	What client safety rules or procedures are applicable to today's activities?				
	How will you communicate	with others on site? How will y	ou communicate with the PIC	and PM?	
	What are the potential impa	cts of planned activities to visitor	rs, nearby workers, or the publ	ic?	
	Who do you contact if you	have questions or before deviatin	g from written procedures?		
	What happens and who do y be alerted of an emergency		r other emergency? If working	g at an active facility, how will you	
		cility and how would we get an i e person on site trained in first ai			
		ondition or allergy that the project the event of an emergency.	t team needs to be aware of?	Write this down and keep it in	
	Are any work permits requi	red?			
	Has anything unexpected or	out-of-the-ordinary occurred on	this job recently to share?		
	Is there anything different about today's operations as compared to yesterday or previous days?				
	What is the worst that could happen if something goes wrong today?				
	What natural hazards are pr	esent (including plants, animals,	and insects)?		
	What areas of the site have	slip/trip/fall hazards? Can these	be avoided? Are everyone's w	ork boots in good shape?	
	Other items:				
Meeting Attendees (including employees, contractors, and visitors)					
	NameCompanySign-In*Sign-Out**				

\* Signature/initials in this space verify that the employee is fit for performing work.

\*\* Signature/initials in this space verify that the employee was uninjured during the workday.

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	Applicability:		Standard	Document Number:	Version:
	Global	Standard S1-ERM-(		S1-ERM-007-ST	2
ERM	Title:	Subsurfac	e Clearance	Last Revision Date:	21 Jan 2016

## 1. Purpose and Scope

This document establishes the minimum requirements for subsurface obstruction and utility clearance [collectively, Subsurface Clearance (SSC)], and applies to all ERM project-related ground disturbance activities. This document is supported by the mandatory requirements in the *Global Subsurface Clearance Process Document* (S1-ERM-007-WI).

## 2. Roles and Responsibilities

**Business Unit Managing Partner (BU MP).** Review and either approve or reject any waiver associated with the SSC process for projects under their control. Ensure field verification audits are conducted in accordance with the *Global Subsurface Clearance Process Document*.

**Partner in Charge (PIC).** Ensure all elements of the SSC process are implemented on their project; determine if a project site meets the criteria for a Remote/Greenfield site.

**Project Manager (PM).** Ensure a qualified SSC Experienced Person (EP) participates in all projects involving ground disturbance activities.

**SSC Experienced Person (EP).** Lead the execution of the SSC Process on projects not considered Remote/Greenfield; complete required SSC documentation and field forms; be present in the field during all clearance activities.

## 3. Definitions

Critical Zone: 10 feet (3 meters) distance in all directions from the surface projection of:

- All known or suspected underground pipes, cables, conduits, drains, galleries, edges of tanks, or any other useful property; and
- Aboveground structures with associated subsurface pipes and/or cables.

**Ground Disturbance Activities:** activities which require penetration of the ground surface and/or the drilling, coring, or removal of engineered surfaces.

**Point Disturbance**: ground disturbance activities associated with soil borings; well installation; well over-drilling; or digging small test pits.

**Remote/Greenfield Site**: a site (or portion of a site) meeting the requirements in Appendix F of the *Global Subsurface Clearance Process Document*, as determined by the PIC.

	Applicability:		Standard	Document Number:	Version:
	Global		Stanuaru	S1-ERM-007-ST	2
ERM	Title:	Subsurfac	e Clearance	Last Revision Date:	21 Jan 2016

## 4. Requirements

## 4.1 Subsurface Clearance

No ground disturbance activities, with the exception of Remote/Greenfield sites, shall occur without at least one person in the field being a designated SSC EP. This is subject to waiver when only hand digging will occur in the uppermost 1 foot (0.3 meters) below ground surface. The SSC EP is responsible for ensuring that the SSC Process as defined in the *Global Subsurface Clearance Process Document* is fully implemented.

No ground disturbance activities are permitted within the Critical Zone unless a waiver is granted and the Subsurface Clearance Location Disturbance Permit has been completed.

All <u>point disturbance activities</u> require physical clearance, unless a waiver is granted, and shall meet the following minimum requirements:

- 125% of the outer diameter (OD) of the largest downhole tool to the following depth:
  - i. 2 feet (0.6 meters) beyond the bottom of the frost line at the site, or:
  - ii. Inside Critical Zones:
    - To 2 feet (0.6 meters) deeper than the known or suspected invert elevation of the subsurface structure, or
    - If the depth of the service is unknown, physical clearance should be performed to 8 feet (2.4 meters).
  - iii. Outside Critical Zones: 5 feet (1.5 meters).

For all <u>excavation and trenching</u>, mechanical digging is prohibited within 2 feet (0.6 meter) of subsurface structures. There can be no waiver of this requirement.

## 4.2 Remote/Greenfield Site

It is the responsibility of the PIC to ensure that the Remote/Greenfield Subsurface Clearance Process, as defined in the *Global Subsurface Clearance Process Document* is fully implemented.

Mechanical digging is prohibited if the site is to be cleared using the Remote/Greenfield Subsurface Clearance Process. There can be no waiver of this requirement.

## 4.3 Training Requirements

It is the responsibility of the project PIC to ensure that all ERM employees working on or managing projects are trained in accordance with the *Global Subsurface Clearance Process Document*.

SSC EPs shall complete competency testing as described in the *Global Subsurface Clearance Process Document*.

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All personnel training required by this standard shall be documented in ERM Academy.

## 4.4 Issuance of a Waiver

There are five waivers to the SSC Process that may potentially be issued:

- 1. Waive the requirement for an SSC EP to be present on site, when ONLY hand digging will occur in the uppermost 1 foot (0.3 meters) below ground surface;
- 2. Waive the requirement for Public Utility markouts (where allowed by law);
- 3. Waive the requirement for Private Utility markouts;
- 4. Waive the requirement for full physical clearance of point disturbance locations; and
- 5. Allow ground disturbance activities within Critical Zones.

Both the Project PIC and BU MP (or designee) must approve any waivers; all waivers shall be documented in the Subsurface Clearance Project Plan.

## 4.5 Field Verification Auditing

It is the responsibility of the BU MP to ensure that field verification audits are completed in accordance with the *Global Subsurface Clearance Process Document*. Identified findings shall be managed in accordance with the *Event and Non-conformance Management Procedure* (M1-ERM-015-PR).

## 5. References

- S1-ERM-007-WI Global Subsurface Clearance Process Document
- M1-ERM-015-PR Event and Non-conformance Management Procedure

### **Document Control Information**

Original Effective Date: 1 April 2015

Approved by: Gary Beswick on 21 January 2016

by Besure Approval Signature:

	Applicability:		Standard	Document Number:	Version:
	Global		Stanuaru	S1-ERM-007-ST	2
ERM	Title:	Subsurfac	e Clearance	Last Revision Date:	21 Jan 2016

## **Revision History**

Section	Version: Reason for Revision	Date
All	1.0: New document.	29 Dec 2014
3, 4.1, 4.2, 4.4	1.1: changed definition of ground disturbance; changed definition of point disturbance, added waiver for shallow hand digging; revised language for clarity.	15 May 2015
5	2.0 - corrected link to SSC Global Process document	21 Jan 2016

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## Subsurface Clearance (SSC) **Considerations for Private Utility Locates**

This form provides additional guidance and considerations for conducting effective private utility locates.

SSC PROCEDURE REQUIREMENTS
<ul> <li>Excluding remote-greenfield sites, private utility locates are required on all SSC projects. Only the Partner in Charge (PIC) and Business Unit Managing Partner (BU MP) may waive this requirement.</li> </ul>
<ul> <li>Locates must be performed by: (1) a prequalified contractor, with direct ("eyes on") supervision by the ERM SSC Experienced Person (EP); or (2) an ERM employee who has an appropriate level of formal training and experience to perform utility locates.</li> </ul>
<ul> <li>Locates must be conducted to: (1) verify the routes and locations of all known or suspected services associated with a site; <u>AND</u> (2) clear a minimum distance of 10 feet (3 meters) around each planned ground disturbance location, including excavations / trenches.</li> </ul>
<ul> <li>Vegetation or surface obstructions must be cleared / removed as necessary to facilitate private utility markouts. If engineered surfaces such as reinforced concrete are interfering with private locate signals, consider doing an additional locate AFTER removal of the surface but prior to additional ground disturbance.</li> </ul>
<ul> <li>Utilities should be marked with paint or other semi-permanent markings whose meaning is clearly understood by the site team. Markings must remain clear and visible for the duration of the ground disturbance activities, and re-marked if necessary.</li> </ul>
PLANNING PHASE
• Communicate the detailed scope of work and review all available SSC information with private locators in advance, prior to mobilizing to the site. This way they can bring the right equipment and schedule sufficient time to achieve the clearance objectives.
• Select the right equipment and methods to be used, based on your discussions with the contractor and the "Guidance on Selection and Applicability of Detection Equipment Used for Private Utility Location" in Appendix G of the SSC Process Document.
PRE-CLEARANCE PHASE
• Provide all available information to locators to help them confirm the routes of all known or suspected services. This includes but may not be limited to: as-builts, public locator responses/markings, knowledgeable site contact information, and results of visual clues survey.
• We must ensure that utility locators are thorough and use multiple tools and methods, including active tracing techniques. Ground penetrating radar (GPR) surveys should be used wherever possible.
For electromagnetic (EM) location, insist on inducement of a signal and active tracing of all conductors, wherever possible.
<ul> <li>Perform at least two different depth scans with GPR: (1) a higher frequency near-surface scan and (2) a lower-frequency scan within the target depth range for site services. This is especially critical for sites with concrete slabs or other engineered surfaces, where utilities may be direct buried within or directly below the surface.</li> </ul>
Ask the private locators about any issues or limitations with their surveys. Have them     provide a written report of their findings.



## Subsurface Clearance (SSC) **Field Review Checklist for Contractors**

Site Name:
Client:
ERM Project No.:
Contractor activities to be
performed on Site:

Use this form to conduct and document review with contractor field personnel, to ensure they have been properly briefed on the applicable components of ERM's SSC Process.

TOPIC	REVIEWED	N/A	COMMENTS
All personnel on ERM projects are empowered to stop work, without fear of reprimand, if it is unsafe to proceed or if there are concerns or questions.			
If at any time during project execution, the scope of work or jobsite conditions change, work should be stopped and the potential H&S effect of the change discussed.			
Ground disturbance activities may NOT be performed at any location without authorization by the ERM SSC Experienced Person (EP). Clearance activities may NOT be performed at any location unless the ERM EP is physically present.			
<ul> <li>Unless explicitly authorized by ERM's Partner-in-Charge and Business Unit Managing Partner, ground disturbance may NOT be performed within 10 feet (3 meters) distance (referred to as the "Critical Zone") of the surface projection of:</li> <li>Any known or suspected underground pipes, cables, conduits, drains, galleries, edges of tanks, or any other useful property; or</li> <li>Aboveground structures with associated subsurface pipes and/or cables, including but not limited to pump islands, pump galleries, manifolds, electrical transformers, compressors, production wells, loading racks, or other process equipment.</li> </ul>			"The Critical Zone"
Unless authorized by the ERM EP, ground disturbance / clearance activities must NOT be performed in areas that are in direct conflict with any markings made by public or private utility locators.			
<ul> <li>Unless explicitly authorized by ERM's Partner-in-Charge and Business Unit Managing Partner, all borehole and small test pit locations must be physically cleared prior to use of mechanized equipment. Required physical clearance depths and diameters for point disturbances are as follows:</li> <li>Physically clear to a diameter at least 125% of the largest downhole tool to be used.</li> <li>Physically clear to the deeper of: <ul> <li>2 feet (0.6 meters) beyond the bottom of the frost line at the site, or:</li> <li>Outside Critical Zones to 5 feet (1.5 meters), or</li> <li>Inside Critical Zones to the deeper of: 8 feet (2.4 meters), or 2 feet (0.6 meters) deeper than the expected invert elevation of the subsurface structure</li> </ul> </li> </ul>			"The Excavation Buffer"

TOPIC	REVIEWED	N/A	COMMENT:
Mechanical digging is prohibited inside a 2-foot (0.6-meter) distance (referred to as the "Excavation Buffer") in all directions from subsurface structures that will be intentionally exposed due to ground disturbance activities. Removal of material inside the Excavation Buffer may only proceed by hand using non-conductive tools.			
For all equipment brought to the site, the minimum horizontal distance from any point on the equipment to the nearest overhead electrical power line must adhere to the minimum safe clearance requirements stipulated by regulation, utility companies, client requirements, and/or industry best practice.			
If subsurface structures are to be de-energized prior to ground disturbance activities, only trained personnel may do so via a formal, written energy isolation program.			
Contractor personnel should be observant during ground disturbance activities for the presence of warning signs indicating non-native soil, fill materials, and/or the presence of unexpected subsurface structures. Any evidence of warning signs, unexpected encounters with subsurface structures, or any other near misses or incidents must be immediately reported to the ERM EP or field supervisor. Contractor personnel must participate, as requested, in investigations of near misses and incidents.			
Other topics discussed:			

N/A = Not applicable to this project.

ERM

#### **REQUIREMENTS FOR TOOLS AND EQUIPMENT:**

- Hand digging tools must have a non-conductive handle (e.g., fiberglass, wood, composite) AND / OR fully
  insulated handles and upper shaft. It is a best practice to also wear insulated electrical gloves certified to
  appropriate standards.
- Blades on shovels and post-hole diggers must have rounded or blunt edges.
- Pick axes or pointed spades are not to be used for physical clearance.
- Electric-powered equipment must have ground fault protection. If this is not feasible, fully insulated electrical gloves certified to appropriate standards must be worn at all times during equipment use/operation.
- Equipment must be inspected prior to use, maintained according to manufacturer recommendations, and operated only by trained personnel.
- Rig- or stand-mounted concrete coring equipment must be anchored to the ground/floor using proper anchors.

Checklist Completed By: (SSC Experienced Person)		
Name (Print)	Name (Sign)	Date / Time
Reviewed By: (All Contractor Personnel)		
Name (Print)	Name (Sign)	Date / Time



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This Subsurface Clearance (SSC) Project Plan should be completed for each phase of ground disturbance activities at a project location, and included as an addendum to the Project-Specific Health & Safety Plan (HASP).

Ground disturbance activities that fall under this SSC Project Plan include <u>ALL</u> activities which require penetration of the ground surface (regardless of depth), and/or the drilling, coring or removal of engineered surfaces (pavement, concrete, etc.). Examples of ground disturbance activities include, but are not limited to:

- Hand digging / hand augering
- Drilling
- Direct-push or Geoprobe® borings
- Well installation
- Well decommissioning by over-drilling

- Excavation (by hand or with mechanical equipment)
- Trenching
- Grading
- Concrete coring
- Driving of posts, stakes, rods, poles, or sheet pile.

This SSC Project Plan summarizes the types and sources of SSC information obtained, describes the Site Services Model, and documents any waivers to ERM's Global SSC Process. The ERM Partner-in-Charge (PIC), Project Manager (PM), and SSC Experienced Person (EP)<sup>1</sup> must review and approve this SSC Project Plan, and maintain a copy (1) at the project location for the duration of ground disturbance activities and (2) in the project files. *All waivers must be approved by BOTH: (1) the ERM PIC and (2) the Business Unit Managing Partner (BU MP) or the BU MP's designee (cannot be the same person as the PIC).* 

Administrative Information	Project Name and Location: NRG Coolwater CUPA 37000 Sante Fe St. Daggett, CA Scope of Ground Disturbance Activities:							
	Check all that apply:         ☑ Point disturbances         ☑ Excavation / trenching         ☑ Removal of engineered surfaces         ☑ Other - Describe:         SSC Project Plan Date: 3/23/2016         Project Manager:         Signature:	Use field documentation to document SSC: <ul> <li>Process Checklist – broadly across the site</li> <li>Remote/Greenfield Site Process Checklist – broadly across the site for those projects that meet these criteria and where ONLY hand digging will occur (refer to SSC Process Document Section 1.2)</li> <li>Location Disturbance Permit – for each location inside a Critical Zone</li> </ul> Field Work Start Date: 4/4/2016 Partner In Charge: Signature:						
	SSC EP: Signature: List any SSC General Employees (GEs) w	BU MP (req'd for waivers): Signature: orking on this project:						

<sup>&</sup>lt;sup>1</sup> SSC EP not required for project sites determined to be Remote/Greenfield sites (as defined in the ERM Global SSC Process), where ONLY hand digging will occur.

Subsurface	Information Sources	Yes	No	N/A	Comments
Clearance Information Sources Summary	Facility-provided as-built drawings, maps, site plans showing subsurface structures / utilities	$\boxtimes$			Date(s):
Document the information sources that ERM used or will use to locate Subsurface Structures on site.	Other information obtained (e.g., easements, right-of-ways, historical plot plans, current/historical aerial photographs, fire insurance plans, tank (dip) charts, SSC information obtained as part of previous site investigations, soil surveys, boring logs				List (including dates):
	Knowledgeable Contact Person	$\boxtimes$			Who: TBD Time in Job: Time at Site:
	Utility Markouts	Yes	No	N/A	Comments
	Site is Remote/Greenfield site <u>AND</u> only hand digging will occur				If "YES", utility markouts are not required by ERM process (Note that public markouts may be legally required based on jurisdiction of project site – it is the responsibility of the PIC and PM to determine these requirements and comply)
	Public Utility Markouts (where they are available)				Required where available – if not available check "N/A". If available and checked "NO", a Waiver is required (if legally able to do so). Who:
	Private Utility Markouts				If checked "NO" and site is not a Remote/Greenfield site, a Waiver is required ERM employee  or Subcontractor Who: List methods / equipment used:

For Remote/Greenfield Sites where ONLY hand digging will occur - the remaining sections of this SSC Project Plan do not apply and can be left blank.

Site Services	Utility / Service	Present	Anticipated Depth	Loca	ted?	Absent	Unknown	Status (active/ inactive/	<b>Comment</b> (how located? Lines of evidence – types and
Model	Dunity / Service	Flesent	(note units)	Yes	No	Absent	UIKIIOWII	abandoned)	quality. How will gaps be addressed?)
List the utilities or other below ground	Electricity								Voltage:
services present on site.	Gas								
Do we know the locations of these	Petroleum Pipeline								
services, their conveyance on site (to the site	Other Pressurized Lines								Туре:
boundary, as appropriate) and	Process Sewer								
the location of isolation switches or valves?	Sanitary Sewer								
If "Present" and	Storm Sewer								
not located or "Unknown", comment on how	Potable Water								
those gaps will be addressed.	Telephone / Communication								
Attach a site plan / drawing (to scale)	Fiber Optic								
showing planned ground	Plant air / steam								
disturbance location(s), the locations/routes of	Fuel / oil								
all identified or suspected	Reclaimed / waste water								
subsurface structures and	Fire suppression								
services, and associated critical zones.	Underground tank(s)								
20.000	Other:								

Subsurface Clearance	Process Component Being Waived:	Waived By (PIC)	Waived by (BU MP)	Date	Reason
Process Waivers	Performance of Public Utility Markouts (where they are available)				
Document any waivers to the process approved	Performance of Private Utility Markouts				
by BOTH the PIC and BU MP. Legally required	No ground disturbance inside a Critical Zone				
steps cannot be waived.	Physical Clearance to required depth(s) and diameters(s) at Point Disturbance Location(s). Indicate specific location(s):				
	Requirement for SSC EP to be present on site, when ONLY hand digging/hand augering will occur in the uppermost 1 foot (0.3 meters)				

Subsurface and Overhead Utility Clearance Map	Attach a site plan / drawing (to scale) showing planned ground disturbance location(s), the locations/routes of all identified or suspected subsurface structures and services, associated critical zones, and location of all isolation devices and/or shutoff valves.
---	---

ERM	Locatio Permit		Disturbance Location Designation: ERM Project No.: SSC Exp. Person:	Location Designation: ERM Project No.:						
Contact Person Ap	proval of Ground	Disturbance Locations (indicate ve	erbal approval by printing "Ve	rbal" in the si	gnature space)					
Name (Pr	int)	Company	Name (Sign)		Date / Time					
Critical Zone Determination and Clearance Depth (It is not preferred to initiate ground disturbance activities within a Critical Zone)         If the Disturbance Location is known or suspected to fall within a Critical Zone, then a sketch (see reverse) or other map must be developed showing the location of all potential utilities within 10 feet (3 m) of the disturbance location. Sketch / map must be to scale.       This Location Is: Inside a Critical Zone. Partner-in-Charge (PIC) and Business Unit Managing Partner (BU MP) must BOTH grant waiver for disturbance at this location. Ensure documentation in the SSC Project Plan addendum to the HASP. Physical Clearance for point disturbances will proceed to the deeper of: 0.6 m / 2 feet below the frost line, 0.6 m / 2 feet deeper than the expected invert elevation of the service, OR 2.4 m / 8 feet below ground level.         Outside a Critical Zone.       Outside a Critical Zone.         Physical Clearance for point disturbances will proceed to the deeper of: 0.6 m / 2 feet below the frost line or 1.5 m / 5 feet below ground level.										
Utility Markouts	an algorized through	both public and private utility locates	2 Y		"N" requires waiver					
Clearance de	epth and diameter (	iniques / equipment: (specify units): uired depth or diameter. For point di SC Project Plan addendum to HASP		,	nd BU MP. / Time:					
Physical Clearance Compar		Representative(s)	Date / Time Complete		Notes					
Was any Subsurfac	e Structure disco	vered (damaged or undamaged) d	uring Clearance?							
No (Proceed)	Yes	Work stopped and discus PIC (Date / Time): Agreed Action:								
SSC Process Comp	blete									
Name of SSC ERM Health & Safety	Experienced Perso	n (Print) Page 1 o	Name (Sign) f 2		Date / Time Version 3.2 – January 2016 S1-ERM-007-FM3					

#### Critical Zone Determination Sketch (use this or other map to confirm proximal Critical Zones).

tructions:											
Create a skete the space to le	1.										
to scale and c											
a. The distu			 							 	
b. Surface l obstructi											
overhead c. Critical la											
c. Critical la Structure wells, rad											
d. Undergro i. Ider											
Moo ii. Mar											
utili iii. As i											
Per iv. Nea med										 	
e. Any surfa											
undergro boxes, d signage,											
f. The site											
Use your sket (3m or 10 fee	2.									 	
landmarks an / services.		 	 	 		 	 	 	 	 	
For Excavatio											
mark Excavate feet) from Sub	5.										
If the disturba the Critical Zo	4.										
of action is ste outside a Criti											
Disturbance v	5.										
only proceed (or designee)	5.										

- Create a sketch of the disturbance (in the space to left or attach) that is drawn to scale and contains the following information:
  - a. The disturbance location
  - b. Surface landmarks and overhead obstructions (buildings, roads, overhead lines, etc.)
  - c. Critical landmarks and Subsurface Structures (tanks, transformers, wells, racks, etc.)
  - d. Underground services:
    - i. Identified in the Site Service Model
    - ii. Marked by Public and Private utility markouts
    - iii. As relayed by the Contact Person
    - iv. Nearest shutoff / isolation mechanism for each
  - e. Any surface clues as to potential underground services (junction boxes, drains, disturbed concrete, signage, etc.)
  - f. The site property boundary
- Use your sketch to mark Critical Zones (3m or 10 feet) around critical landmarks and underground structures / services.
- . For Excavations, use your sketch to mark Excavation Buffers (0.6m or 2 feet) from Subsurface Structures.
- . If the disturbance location falls inside the Critical Zone, the preferred course of action is step out to a safe location outside a Critical Zone.
- Disturbance within a Critical Zone can only proceed with both PIC and BU MP (or designee) approval.

Version 3.2 – January 2016 S1-ERM-007-FM3



# Subsurface Clearance Field Process Checklist

Client:	
Cilent.	

ERM Project No.:

SSC Exp. Person:

Project Information Utilized for Field SSC Activities	Yes	No	N/A	Comments
Knowledgeable Contact Person(s) requested and identified				
Contractors prequalified and approved				
ERM / client SSC requirements have been communicated to all field personnel (including contractors)				
As-built drawings, site plans, aerial photographs, and/or other information sources available and reviewed				
Site plan(s) / drawing(s) developed showing subsurface lines/structures, Critical Zones, and planned ground disturbance locations				
SSC Experienced Person (EP) with current SSC certification assigned				
Project staff with current SSC certification assigned				
UXO / MEC risks assessed: UXO / MEC is present or potentially present				If Yes, stop work and contact PIC

General Field Activity & Site Walk					Yes	No	N/A	Commer	nts	
HASP available, reviewed, and signed by project team										
Site walk visual clues / site features (below) integrated	into Site S	Services	Мос	del						
Identified Visual Clue	Yes	No				Identi	fied Vis	sual Clue	Yes	No
Lights				Heate	d floors	(in-floo	r radian	t heating)		
Signage				Fire hydrants						
Sewer drains / cleanouts				Sprink						
Cable / pipeline markers			Water meters							
Utility poles with conduit leading to the ground	Natur				latural gas meters					
Utility boxes	UST fill ports and vent pipes									
Manholes				Equipment / manifold locations						
Pavement scarring				Steam lines						
Distressed vegetation or vegetation in linear pattern		Remote buildings with no visible utilities								
Comments / Others:										

## Contact Person Approval of Ground Disturbance at All Locations (indicate verbal approval by printing "Verbal" in the signature space)

Name (Print) Company				Name	e (Sign)	Dat	te / Time
Utility Markouts		Yes	No	N/A		Comments	
Public Utility Markouts completed (where if "NO")	available; waiver required						
List utilities notified:					•		
Responses received from ALL compani	es notified?						
Private Utility Markout completed (waiver	required if "NO");						
NOTE: Private utility markouts must be "eyes on" supervision".	e performed by competent,	trained	personr	nel. Col	ntractors must be	e overseen directly k	by SSC EP with
Performed by:							
Type of equipment / methods used:							
Note any issues or limitations (e.g., sou	rces of interference, geolog	gy, etc.)	:				



# Subsurface Clearance Field Process Checklist

ERM Project No.:

SSC Exp. Person:

Final Critical Zone determinations made by the SSC EP		
Critical Zones		

Are there any ground disturbance	Yes.	PIC and BU MP (or designee) must BOTH grant waiver for work within the Critical Zone. The SSC Location Disturbance Permit or equivalent is required for those locations.
locations <u>known</u> or <u>suspected</u> to be inside Critical Zones?	No.	Physical Clearance will proceed to the deeper of: 0.6 m / 2 feet below the frost line or 1.5 m / 5 feet below ground level, whichever is deeper.

Overhead Clearance	Yes	No	N/A	Comments
Overhead utility lines in the general vicinity of ERM work onsite?				
If overhead utilities are present, has nominal voltage been determined? If yes, list in comments section.				Voltage:
Overhead clearances confirmed with equipment operators for safely deploying equipment to the location? (The minimum horizontal distance from any point on the equipment to the nearest overhead electrical power line should adhere to the minimum clearance requirements stipulated by regulation, utility companies, client requirements, and/or industry best practice.)				Clearance distance(s):
Proximity alarms and /or spotters necessary to ensure safe clearances?				
If the equipment is to be closer than the minimum clearance distance to the overhead utility, can utility be de-energized via formal lockout/tagout (LOTO) program?				
If utility cannot be de-energized, alternate plan developed with approval from the PIC, H&S Team, and client/site owner?				

Clearance for Point Disturbances	Yes	No	N/A	Comments
Physical Clearance technique used:				Specify:
(waiver required if no Physical clearance performed)				Specity.
Diameter of physical clearance at least 125% of outside diameter				
of largest downhole tool (150% is best practice)				
Physical Clearance successfully completed at all locations				

Clearance for Excavations	Yes	No	N/A	Comments
Communicate excavation plan and Excavation Buffer location(s) to contractor. Delineate excavation buffers.				
There are disturbance locations known or suspected to be inside Critical Zones (waiver required if yes)				
De-energize subsurface services via formal LOTO program prior to beginning excavation				

Additional Notes:

#### SSC Process Completed By (SSC Experienced Person)

Name (Print)

Name (Sign) Page 2 of 3 Date / Time Version 3.2 – January 2016

ERM Health & Safety



# Subsurface Clearance **Field Process Checklist**

Site/Project Name:	
Client:	
ERM Project No.:	
SSC Exp. Person:	



Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union REACH Regulations



## **SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME:

CHEMICAL FAMILY NAME: PRODUCT USE: U.N. NUMBER: U.N. DANGEROUS GOODS CLASS: SUPPLIER/MANUFACTURER'S NAME: ADDRESS: EMERGENCY PHONE:

BUSINESS PHONE: DATE OF PREPARATION: DATE OF LAST REVISION:

## **ALCONOX**®

Detergent. Critical-cleaning detergent for laboratory, healthcare and industrial applications Not Applicable Non-Regulated Material Alconox, Inc. 30 Glenn St., Suite 309, White Plains, NY 10603. USA **TOLL-FREE in USA/Canada**800-255-3924 International calls8813-248-0585 914-948-4040 May 2011 February 2008

## **SECTION 2 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** This product is a white granular powder with little or no odor. Exposure can be irritating to eyes, respiratory system and skin. It is a non-flammable solid. The Environmental effects of this product have not been investigated.

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

Non-Regulated



EUROPEAN and (GHS) Hazard Symbols



#### EU LABELING AND CLASSIFICATION:

Classification of the substance or mixture according to Regulation (EC) No1272/2008 Annex 1 EC# 205-633-8 This substance is not classified in the Annex I of Directive 67/548/EEC EC# 268-356-1 This substance is not classified in the Annex I of Directive 67/548/EEC EC# 231-838-7 This substance is not classified in the Annex I of Directive 67/548/EEC EC# 231-767-1 This substance is not classified in the Annex I of Directive 67/548/EEC EC# 207-638-8 Index# 011-005-00-2 EC# 205-788-1 This substance is not classified in the Annex I of Directive 67/548/EEC

#### GHS Hazard Classification(s):

Eye Irritant Category 2A

Hazard Statement(s):

H319: Causes serious eye irritation

#### Precautionary Statement(s):

P260: Do not breath dust/fume/gas/mist/vapors/spray P264: Wash hands thoroughly after handling P271: Use only in well ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection/

Hazard Symbol(s): [Xi] Irritant

Risk Phrases:

R20: Harmful by inhalation R36/37/38: Irritating to eyes, respiratory system and skin

#### Safety Phrases:

S8: Keep container dry S22: Do not breath dust S24/25: Avoid contact with skin and eyes

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#### HEALTH HAZARDS OR RISKS FROM EXPOSURE:

ACUTE: Exposure to this product may cause irritation of the eyes, respiratory system and skin. Ingestion may cause gastrointestinal irritation including pain, vomiting or diarrhea.

CHRONIC: This product contains an ingredient which may be corrosive.

**TARGET ORGANS:** 

ACUTE: Eye, respiratory System, Skin

CHRONIC: None Known

## **SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	HAZARD CLASSIFICATION; RISK PHRASES
Sodium Bicarbonate	144-55-8	205-633-8	1044	33 - 43%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Sodium (C10 – C16) Alkylbenzene Sulfonate	68081-81-2	268-356-1	Not Listed	10 – 20%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Sodium Tripolyphosphate	7758-29-4	231-838-7	1469	5 - 15%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Tetrasodium Pyrophosphate	7722-88-5	231-767-1	1140	5 - 15%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Sodium Carbonate	497-19-8	207-638-8	1135	1 - 10%	HAZARD CLASSIFICATION: [Xi] Irritant RISK PHRASES: R36
Sodium Alcohol Sulfate	151-21-3	205-788-1	0502	1 – 5%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Balance of other ingredients are carcinogens, reproductive toxins,					

**NOTE:** ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard *JIS Z 7250: 2000.* 

## **SECTION 4 - FIRST-AID MEASURES**

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

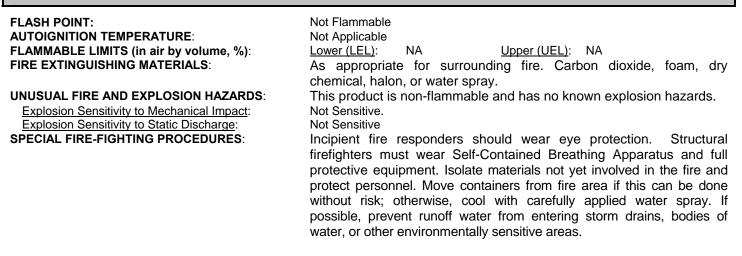
- **EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.
- **SKIN CONTACT:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.
- **INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing dificulty continues.

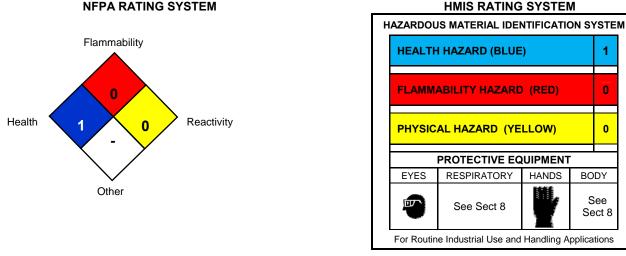
**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing skin, or eye problems may be aggravated by prolonged contact.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and reduce over-exposure.

### SECTION 5 - FIRE-FIGHTING MEASURES





Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**SPILL AND LEAK RESPONSE:** Personnel should be trained for spill response operations.

**SPILLS:** Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Sweep, shovel or vacuum spilled material and place in an appropriate container for re-use or disposal. Avoid dust generation if possible. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

### **SECTION 7 - HANDLING and STORAGE**

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

**STORAGE AND HANDLING PRACTICES:** Containers of this product must be properly labeled. Store containers in a cool, dry location. Keep container tightly closed when not in use. Store away from strong acids or oxidizers.

## **SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION**

#### EXPOSURE LIMITS/GUIDELINES:

Chemical Name	CAS#	ACGIH TWA	OSHA TWA	SWA
Sodium Bicarbonate	144-55-8	10 mg/m <sup>3</sup> Total Dust	15 mg/m <sup>3</sup> Total Dust	10 mg/m <sup>3</sup> Total Dust
Sodium (C10 – C16) Alkylbenzene Sulfonate	68081-81-2	10 mg/m <sup>3</sup> Total Dust	15 mg/m <sup>3</sup> Total Dust	10 mg/m <sup>3</sup> Total Dust
Sodium Tripolyphosphate	7758-29-4	10 mg/m <sup>3</sup> Total Dust	15 mg/m <sup>3</sup> Total Dust	10 mg/m <sup>3</sup> Total Dust
Tetrasodium Pyrophosphate	7722-88-5	5 mg/m³	5 mg/m³	5 mg/m³
Sodium Carbonate	497-19-8	10 mg/m <sup>3</sup> Total Dust	15 mg/m <sup>3</sup> Total Dust	10 mg/m <sup>3</sup> Total Dust
Sodium Alcohol Sulfate	151-21-3	10 mg/m <sup>3</sup> Total Dust	15 mg/m <sup>3</sup> Total Dust	10 mg/m <sup>3</sup> Total Dust

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

**RESPIRATORY PROTECTION:** Based on test data, exposure limits should not be exceeded under normal use conditions when using Alconox Detergent. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Use chemical resistant gloves to prevent skin contact.. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

## **SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES**

PHYSICAL STATE: APPEARANCE & ODOR: ODOR THRESHOLD (PPM): VAPOR PRESSURE (mmHg): VAPOR DENSITY (AIR=1): BY WEIGHT: EVAPORATION RATE (nBuAc = 1): BOILING POINT (C°): FREEZING POINT (C°): pH: SPECIFIC GRAVITY 20°C: (WATER =1) SOLUBILITY IN WATER (%) COEFFICIENT OF WATER/OIL DIST.: VOC: CHEMICAL FAMILY: Solid White granular powder with little or no odor. Not Available Not Applicable Not Applicable. Not Available Not Applicable. Not Applicable. 9.5 (1% aqueous solution) 0.85 - 1.1 >10% w/w Not Available None Detergent

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## **SECTION 10 - STABILITY and REACTIVITY**

STABILITY: Product is stable

**DECOMPOSITION PRODUCTS:** When heated to decomposition this product produces Oxides of carbon (COx) **MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** Strong acids and strong oxidizing agents. **HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Contact with incompatible materials and dust generation.

## SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICITY DATA: Toxicity data is available for mixture: CAS# 497-19-8 LD50 Oral (Rat) 4090 mg/kg CAS# 497-19-8 LD50 Oral (Mouse) 6600 mg/kg CAS# 497-19-8 LC50 Inhalation 2300 mg/m<sup>3</sup> 2H (Rat) CAS# 497-19-8 LC50 Inhalation 1200 mg/m<sup>3</sup> 2H (Mouse) CAS# 7758-29-4 LD50 Oral (Rat) 3120 mg/kg CAS# 7758-29-4 LD50 Oral 3100 mg/kg (Mouse) CAS# 7722-88-5 LD50 Oral (Rat) 4000 mg/kg

**SUSPECTED CANCER AGENT:** None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies. **IRRITANCY OF PRODUCT:** Contact with this product can be irritating to exposed skin, eyes and respiratory system.

SENSITIZATION OF PRODUCT: This product is not considered a sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No information concerning the effects of this product and its components on the human reproductive system.

## **SECTION 12 - ECOLOGICAL INFORMATION**

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: No Data available at this time.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No evidence is currently available on this product's effects on plants or animals.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

## **SECTION 14 - TRANSPORTATION INFORMATION**

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION. PROPER SHIPPING NAME: Non-Regulated Material HAZARD CLASS NUMBER and DESCRIPTION: Not Applicable UN IDENTIFICATION NUMBER: Not Applicable PACKING GROUP: Not Applicable. DOT LABEL(S) REQUIRED: Not Applicable

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004): Not Applicable

MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is not classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is not classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

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This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

### **SECTION 15 - REGULATORY INFORMATION**

#### UNITED STATES REGULATIONS

SARA REPORTING REQUIREMENTS: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

#### SARA 311/312:

Acute Health: Yes Chronic Health: No Fire: No Reactivity: No

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

#### U.S. CERCLA REPORTABLE QUANTITY (RQ): None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): None of the ingredients are on the California Proposition 65 lists.

#### CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** This product is categorized as a Controlled Product, Hazard Class D2B as per the Controlled Product Regulations

#### EUROPEAN ECONOMIC COMMUNITY INFORMATION:

**EU LABELING AND CLASSIFICATION:** 

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

#### AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed on the AICS. STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

#### JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

#### **INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:<br/>Asia-Pac:ListedAustralian Inventory of Chemical Substances (AICS):ListedKorean Existing Chemicals List (ECL):ListedJapanese Existing National Inventory of Chemical Substances (ENCS):ListedPhilippines Inventory if Chemicals and Chemical Substances (PICCS):ListedSwiss Giftliste List of Toxic Substances:ListedU.S. TSCA:Listed

## **SECTION 16 - OTHER INFORMATION**

PREPARED BY: Paul Eigbrett Global Safety Management, 10006 Cross Creek Blvd. Suite 440, Tampa, FL 33647

## **ALCONOX**®

**Disclaimer:** To the best of Alconox, Inc. knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type either express or implied are provided. The information contained herein relates only to this specific product.

#### ANNEX:

#### IDENTIFIED USES OF ALCONOX® AND DIRECTIONS FOR USE

**Used to clean:** Healthcare instruments, laboratory ware, vacuum equipment, tissue culture ware, personal protective equipment, sampling apparatus, catheters, tubing, pipes, radioactive contaminated articles, optical parts, electronic components, pharmaceutical apparatus, cosmetics manufacturing equipment, metal castings, forgings and stampings, industrial parts, tanks and reactors. Authorized by USDA for use in federally inspected meat and poultry plants. Passes inhibitory residue test for water analysis. FDA certified.

**Used to remove:** Soil, grit, grime, buffing compound, slime, grease, oils, blood, tissue, salts, deposits, particulates, solvents, chemicals, radioisotopes, radioactive contaminations, silicon oils, mold release agents.

**Surfaces cleaned:** Corrosion inhibited formulation recommended for glass, metal, stainless steel, porcelain, ceramic, plastic, rubber and fiberglass. Can be used on soft metals such as copper, aluminum, zinc and magnesium if rinsed promptly. Corrosion testing may be advisable.

**Cleaning method:** Soak, brush, sponge, cloth, ultrasonic, flow through clean-inplace. Will foam—not for spray or machine use.

**Directions:** Make a fresh 1% solution (2 1/2 Tbsp. per gal., 1 1/4 oz. per gal. or 10 grams per liter) in cold, warm, or hot water. If available use warm water. Use cold water for blood stains. For difficult soils, raise water temperature and use more detergent. Clean by soak, circulate, wipe, or ultrasonic method. Not for spray machines, will foam. For nonabrasive scouring, make paste. Use 2% solution to soak frozen stopcocks. To remove silver tarnish, soak in 1% solution in aluminum container. RINSE THOROUGHLY—preferably with running water. For critical cleaning, do final or all rinsing in distilled, deionized, or purified water. For food contact surfaces, rinse with potable water. Used on a wide range of glass, ceramic, plastic, and metal surfaces. Corrosion testing may be advisable.

Grey arsenic As Atomic mass: 74.9 ICSC # 0013		CAS # 7440-38-2 RTECS # <u>CG0525000</u> UN # 1558 EC # 033-001-00-X October 18, 1999 Validated	
TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with strong oxidizers. NO contact with hot surfaces.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Risk of fire and explosion is slight when exposed to hot surfaces or flames in the form of fine powder or dust.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT! AVOID EXPOSURE OF (PREGNANT) WOMEN!	IN ALL CASES CONSULT A DOCTOR!
•INHALATION	Cough. Sore throat. Shortness of breath. Weakness. See Ingestion.	Closed system and ventilation.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
•SKIN	Redness.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
•EYES	Redness.	Face shield or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Abdominal pain. Diarrhoea. Nausea. Vomiting. Burning sensation in the throat and chest. Shock or collapse. Unconsciousness.	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

# Self-Monitoring Report Monitoring and Reporting Program No. 98-54 Groundwater Monitoring Coolwater Generating Station

Daggett, California

#### Prepared for: NRG California South LP Coolwater Generating Station

April 27, 2018

Prepared by:

Patrick Hamilton

P. Hamilton, CEG #998 Engineering Geologist 2715 Altamira Circle West Covina, CA 91792

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10/12/17 Sampling Event 2/7/18 Sampling Event

#### **Appendix B: Weck Analytical Laboratory Reports**

4/27/17 Sampling Event 10/12/17 Sampling Event 2/7/18 Sampling Event

#### **Appendix C: Vadose Zone Monitoring**

#### Introduction

This report summarizes the major events of the groundwater monitoring program for the period from September 2017 through March 2018. For continuity, the report contains a tabular listing of the analytical data collected during the previous 6-month period. The analytical data is presented in time-series plots for each of the monitoring parameters. To better display the data, the last two years have been included on the plots. The field forms for the two sampling events in the 6-month period (occurring on October 12, 2017 and February 7, 2018) are included in Appendix A. The laboratory analytical reports have been included in Appendix B along with the 4/27/2017 reports missing from the last semi-annual report. Figure 1 is a site map showing the location of sampling wells, piezometers, and site facilities.

The evaporation ponds are inspected by station personnel for evidence of any physical problems with the dikes or intake facilities. Since the station is no longer in operation, wastewater is no longer being generated and conveyed to the ponds. Inspections of the ponds still occur. However, the purpose of the inspections is to determine the condition of the ponds and if any dust control measures are necessary. Table 1 shows the dates of the pond inspections during September 2017 through March 2018. About 72 million gallons of water was conveyed to the ponds over the monitoring period for dust control. The water quality data presented on Table 6 shows the water was station service water not wastewater.

The groundwater monitoring program consists of quarterly groundwater sampling, quarterly soil moisture measurements adjacent to the ponds by use of time domain reflectometry (TDR), semi-annual groundwater gradient determination, and sampling of wastewater contained in the ponds when present. The Monitoring and Reporting Program No. 98-54 defines the monitoring points for the Impoundments as groundwater monitoring wells MW-1, MW-2, MW-4, B, and 2A. The background groundwater sample is collected from well 2A. Figure 1 shows the location of the monitoring wells. The positions of the TDR stations are presented on Figure 1 in Appendix C. Table 2 contain a description and use of each monitoring well on the site. The table shows that five wells are used to collect groundwater samples and groundwater level measurements. Six additional wells are only used for water level measurements.

There are also two wells used as piezometers for a specific purpose. A clay layer was encountered at a depth of 75 feet in each of the bore-holes for wells MW-2 and MW-4. Since this layer had the potential to create a perched zone of either leaked wastewater (MW-2) or groundwater (MW-4), it was decided to

install a piezometer about five feet from each well. These two piezometers are sounded at each quarterly event to determine if water is present. If water is present, a sample would be collected for analysis.

#### **Changes to the Monitoring Program**

The groundwater monitoring components were in good operating conditions during the October 2017 and February 2018 sampling events with a single exception at each event. The repaired sampling pump placed in well MW-4 again failed at the October event. The new pump has been ordered.

#### Vadose Monitoring System

In 1997, a vadose zone monitoring system was installed adjacent to the five evaporation ponds at the site. The first survey occurred on January 21, 1998. The system is composed of twenty-eight TDR waveguides installed in fourteen, forty foot deep borings. The waveguides were installed at the twenty and forty foot horizons in each drill hole. These instruments determine the soil moisture by volume of the material in which they are installed. A detailed report of the installation activities titled "Vadose Zone Monitoring System, Coolwater Generating Station" dated December 26, 1997 was submitted to the Regional Board. The report included a discussion of the geologic material encountered, the initial moisture readings, background soil moistures, and proposed action values. A survey of the system is performed each quarter.

The position of the system array is shown on Figure 1 in Appendix C. The data gathered from each probe is displayed graphically on Figures 2 through 15 in Appendix C. These graphs use all data from the inception of the soil moisture monitoring. Table 1 in Appendix C is a tabulation of the last four surveys by station. Besides the soil moisture readings, the table lists the background soil moisture and the Action Limits for each station listed in the Waste Discharge Permit No. 6-98-54. The final column lists the twenty year average soil moisture value which includes about eighty readings. The background values were determined by averaging the first four quarterly readings.

No wastewater leak from the evaporation ponds has been detected in the moisture data. Each of the stations continues to measure minor moisture changes between quarterly readings. These are normal variations since the manufacturer's operating manual indicates the measuring accuracy is plus or minus two percent of the full scale. The graphical plots show that the Action Limits have not been approached by the moisture readings. The most recent readings are similar the twenty year average data.

In January 2004, the manufacturer installed a software update in the reading electronics. This resulted in a sudden change in the readings at several of the TRD stations.

The signature of a wastewater leak has been detected twice at other facilities where the TRD system was in use. At both events, the response of the instruments was dramatic rather than subtle. Within two quarterly surveys, the soil moisture elevated from below ten percent to saturation (one hundred percent). Increased soil moistures were measured in other TRD stations moving away from the leak. After the leak was located and repaired, the soil moisture immediately began to decease at all TRD locations affected by the leak. The soil moisture readings returned to near background values within six months or two surveys.

#### Groundwater

#### **Groundwater Levels**

The measured depth to water and calculated groundwater elevation for the station monitoring wells on 7/20/17 and 2/7/18 are presented on Table 3. A groundwater elevation plot for the 2/7/18 measurements is shown on Figure 2. This plot illustrates an east to southeast flow direction beneath the impoundments. The 2/7/18 plot has a calculated slope between wells 2A and SWM-1 of 2.16 feet per mile. The gradient beneath the basin complex was calculated at 0.0006 foot per foot. The rate of groundwater flow can be estimated using aquifer characteristics developed for the Hydrologic Assessment Report (1986). These parameters show that the estimated flow rate is about one foot per day.

#### **Groundwater Quality**

The analytical results from groundwater samples obtained at the 10/12/17 and 2/7/18 sampling events from site monitoring wells are submitted on Table 5. Table 5 shows that the monitoring program consists of seven general mineral and three general physical parameters. Of these parameters, only nitrate has an established Maximum Contamination Level (MCL) of 10 mg/L. Time-series plots are presented on Figures 3 through 7 for the following monitoring parameters: electrical conductivity, total dissolved solids, sodium, sulfate, and chloride. Background groundwater data was collected from well 2A.

The groundwater quality beneath the evaporation ponds is influenced by two sources. The water quality in the area of well MW-4 is subject to recharge from the alluvial fans south of the site. The groundwater in the fan deposits tends to have a higher mineral content. Wells located close to the Mojave River channel normally detect the lowest mineral concentrations.

In the past, agricultural operations adjacent to the ponds have influenced the groundwater quality at wells MW-1, MW-2, and B. Irrigation in the summer months would cause an increase in the measured parameters. A corresponding decrease would occur in the winter months with groundwater recharge to the basin. The irrigation operation apparently mobilizes constituents in the soil which are transported to the groundwater. This trend is no longer observed in the monitoring data since the agricultural operations were abandoned. The time-series plots for the last 6-months (Figures 3 through 7) show only minor fluctuations of parameters in the samples collected from the site monitoring wells.

The purpose of the groundwater monitoring is to detect any leakage from the impoundments. When available, samples of water from the ponds have been analyzed for the same parameters as the groundwater. The ponds have normally been dry since the station is presently not operating. The analytical results are included on Table 6. The concentration values for these samples have historically been extremely high. There is no indication or trend in the monitoring data that any highly saline wastewater is entering the groundwater. The variations observed on the time-series plots are normal for the station monitoring wells.

#### **Quality Control**

Table 7 contains the quality control data for the duplicate sample (Dup) collected at the 10/12/17 (well B) and 2/7/18 (well B) sampling events. The relative percentage deviation, RPD, indicates repeatability in the laboratory analysis.

#### **Statistical Analysis**

To indicate evidence of a release, the parametric interval method and inter well comparisons for sample analysis of water quality data have been utilized in this report. The four parameters compared are TDS, sodium, sulfate, and chloride. Tables have been generated to facilitate this statistical analysis. Constituent concentrations from each downgradient well are divided by the constituent concentration determined in the upgradient well. The resulting concentration ratio is compared to a predetermined test statistic calculated from historical well data. If the concentration ratio exceeds the test statistic, then this is considered a statistically significant result, the cause of which must be further investigated.

The 10/12/17 and 2/7/18 quarterly groundwater data are shown on Tables 8 and 9, respectively. The results of all calculations for the July event indicated that

there was no statistically significant event. However, the data from the February event indicated a statistically significant event for the groundwater sample collected from well MW-4 for sulfate. The calculated downstream to background ratio was 1.436 and the threshold for a statistically significant event is 1.422. The sulfate data listed on Table 5 indicates the sulfate concentration contained in the background sample (well 2A) reduced to a lower than normal value, 72 to 55 ppm, while the value recorded in the MW-4 sample remained consistent to previous quarterly samples. As viewed on Figure 2, well MW-4 is in a cross-gradient position related to the evaporation ponds. The second quarter sampling event occurred on 4/19/18 and is presently in the laboratory for analysis. The analytical report should be available in early May. When the report is available, the ratio will be calculated and the Board notified.

#### Conclusions

The groundwater monitoring data has not detected any release of wastewater to the soil or groundwater beneath the evaporation ponds. The vadose monitoring system has not recorded any abnormal soil moisture trends. There is no surface evidence of a release at the impoundments such as vegetation loss or unusual soil discoloration. No sludge was detected in the Pond Sump while the grab sample was collected. The groundwater elevation data indicates a normal flow direction to the southeast beneath the ponds. No mound has been detected on the groundwater surface that would be indicative of a leaking pond. The analytical groundwater data collected from the compliance wells shows normal trends anticipated from past monitoring.

#### Pond ID POND 1 POND 2 POND 3 POND 4 POND 5 **Minimum Permited** 2.00 2.00 2.00 2.00 2.00 Freeboard (feet) Date 10/17/2017 7.00 6.99 7.00 7.00 6.95 11/14/2017 7.00 6.99 7.00 7.00 6.95 12/14/2017 7.00 6.99 7.00 7.00 6.95 1/18/2018 7.00 6.99 7.00 7.00 6.95 2/20/2018 7.00 6.99 7.00 7.00 6.95 3/14/2018 7.00 6.99 7.00 7.00 6.95

6.99

7.00

7.00

6.95

7.00

4/19/2018

# Freeboard Measurements -- Wastewater Evaporation Ponds Coolwater Generating Station

# Description and Use of Monitoring Wells Coolwater Generating Station

Well No.	Elevation Top of Casing (feet)	Well Depth (feet)	Well Diameter (inches)	Perforated Interval (feet)	Depth to Pump Intake (feet) (Measured from top of casing)	Type of Pump						
	Well Use: Groundwater Sampling and Measuring Groundwater Levels											
MW-1	1952.11	250	6	100-250	200	Redi-Flo 2						
MW-2	1952.92	250	6	100-250	200	Redi-Flo 2						
MW-4	1974.55	284	6	121-284	225	Redi-Flo 2						
2A	1953.76	403	14	163-403	300	Turbine						
В	1948.65	320	20	120-320	200	Redi-Flo 2						
		Well Use: Me	asuring Grou	ndwater Levels								
1A	1940.28	400	16	160-400	180	Grundfos						
13	1960.65	300	16	200-300	205	Grundfos						
С	1936.90	360	20	160-360	340	Grundfos						
SWM-1	1944.55	208	4	50-208								
Domestic	1960.60	300	8	200-300	280	Grundfos						
MW-3	1942.63	250	6	100-250								
	Well Use: Potential Perched Water											
MW-2A	1952.69	75	2	65-75								
MW-4A	1969.49	75	2	65-75								

# **Groundwater Elevations Coolwater Generating Station**

Well No.	Well Elevation	Depth to Water 7/20/17	Water Elevation 7/20/17	Depth to Water 2/7/18	Water Elevation 2/7/18
MW-1	1952.11	180.71	1771.40	180.76	1771.35
MW-2	1952.92	181.80	1771.12	181.87	1771.05
MW-4	1974.55	203.54	1771.01	203.88	1770.67
2A	1953.76	180.75	1773.01	181.29	1772.47
В	1948.65	178.63	1770.02	178.69	1769.96
13	1960.65	188.21	1772.44	188.42	1772.23
1A	1940.28	169.25	1771.03	169.46	1770.82
С	1936.90	166.24	1770.66	166.46	1770.44
SWM-1	1944.55	177.65	1766.90	176.18	1768.37
DW	1960.60	187.54	1773.06	188.20	1772.40
MW-3	1942.63	168.48	1774.15	168.58	1774.05

# **Groundwater Elevations Coolwater Generating Station**

Piezometer No.	Date	Comment								
	4/27/2017	Well was Dry								
MW-2A	7/20/2017	Well was Dry								
IVIVV-2A	10/12/2017	Well was Dry								
	2/7/2018	Well was Dry								
	4/27/2017	Well was Dry								
MW-4A	7/20/2017	Well was Dry								
10100-474	10/12/2017	Well was Dry								
	2/7/2018	Well was Dry								
	4/27/2017	Well was Dry								
MW-5	7/20/2017	Well was Dry								
14144-2	10/12/2017	Well was Dry								
	2/7/2018	Well was Dry								

Table 5

# **Groundwater Chemistry -- Coolwater Generating Station**

	Date	EC	рН	Mg	Na	К	SO4	CI	NO3-N	F	TDS
Well No.	Units	uS	units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	MCL	*	*	*	*	*	*	*	10	*	*
	•										
	4/27/2017	750	7.7		59		110	72			430
MW-1	7/20/2017	870	7.8		81		100	80			520
101 0 0 - 1	10/12/2017	780	7.8		59		100	69			470
	2/7/2018	770	7.6	14.3	65	3.6	100	75	1.8	0.38	450
	4/27/2017	920	8.1		110		120	100			530
MW-2	7/20/2017	1,000	7.9		100		120	110			600
10100-2	10/12/2017	1,000	7.9		100		120	110			600
	2/7/2018	1,000	7.8	14.1	100	3.6	120	100	2.7	0.56	590
	4/27/2017	Pump Fail	ure								
MW-4	7/20/2017	600	8.1		85		74	37			380
10100-4	10/12/2017	Pump Fail	ure								
	2/7/2018	580	8.2	4.2	88	2.1	79	39	1.2	0.49	360
	4/27/2017	730	7.9		73		89	74			430
2A	7/20/2017	620	8		60		72	67			360
20	10/12/2017	630	8.1		63		72	68			350
	2/7/2018	550	8.2	8.8	70	3.5	55	92	ND	0.37	290
									· · · · · · · · · · · · · · · · · · ·		
	4/27/2017	910	7.9		97		110	89			540
В	7/20/2017	930	7.9		98		110	86			550
	10/12/2017	1,000	7.9		100		110	84			580
	2/7/2018	850	8	13.2	100	3.6	100	96	0.3	0.38	490

Note: \* indicates that an MCL has not been established

# **Evaporation Pond Wastewater Chemistry -- Coolwater Generating Station**

	Date	EC	рН	Mg	Na	к	SO4	CI	NO3-N	F	TDS
Pond No.	Units	uS	units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	MCL	*	*	*	*	*	*	*	10		*
	4/27/2017	Pond was	Dry								
Pond 1	7/20/2017	Pond was	Dry								
Fond I	10/12/2017	Pond was	Dry								
	2/7/2018	Pond was	Dry								
	4/27/2017	Pond was	Dry								
Pond 2	7/20/2017	Pond was	Dry								
	10/12/2017	Pond was	Dry								
	2/7/2018	Pond was	Dry								
	4/27/2017	Pond was	Dry								
Pond 3	7/20/2017	Pond was	Dry								
i ond 5	10/12/2017	Pond was	Dry								
	2/7/2018	Pond was	Dry								
	4/27/2017	Pond was	Dry								
Pond 4	7/20/2017	Pond was	Dry								
	10/12/2017	Pond was	Dry								
	2/7/2018	Pond was	Dry								

Note: \* indicates that an MCL has not been established

	Date	EC	рН	Mg	Na	К	SO4	CI	NO3-N	F	TDS
Pond No.	Units	uS	units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	MCL	*	*	*	*	*	*	*	10		*
	4/27/2017	Pond was	Dry								
Pond 5	7/20/2017	Pond was	Dry								
Ponu 5	10/12/2017	Pond was	Dry								
	2/7/2018	Pond was	Dry								
	4/27/2017	420	8		38		44	32			240
Pond	7/20/2017	900	7.9		75		110	93			550
Sump	10/12/2017	920	8		74		110	91			550
	2/7/2018	490	8.1	7	47	2.3	57	42	1.6	0.55	280

# **Evaporation Pond Wastewater Chemistry -- Coolwater Generating Station**

Note: \* indicates that an MCL has not been established

# Quarterly Sampling -- Quality Control Coolwater Generating Station

	10/12/17 Sampling Event										
Parameter Units B Dup R											
EC	uS	1000	1000	0							
рН	units	7.9	7.9	0							
Sodium	mg/l	100	98	2							
Sulfate	mg/l	110	110	0							
Chloride	mg/l	84	85	1							
TDS	mg/l	580	580	0							

	2/7/18 Sampling Event										
Parameter Units B Dup RPD											
EC	uS	850	860	1							
рН	units	8.0	8.0	0							
Sodium	mg/l	100	99	1							
Sulfate	mg/l	100	100	0							
Chloride	mg/l	96	97	1							
TDS	mg/l	490	480	2							

# **Statistical Analysis -- Groundwater Data Coolwater Generating Station**

Constituent:	Na		Date: 10/12/17			
Downstream Well	Downstream Concentration (ppm)	Background Well	Background Concentration (ppm)	Ratio: Downstream / Background	Significant Event if Ratio is greater than	Mark if Significant
MW-1	59	2A	63	0.937	4.501	
MW-2	100	2A	63	1.587	3.925	
В	100	2A	63	1.587	3.270	
MW-4		2A	63	0.000	2.431	

Constituent: **SO4** Date: 10/12/17

Downstream Well	Downstream Concentration (ppm)	Background Well	Background Concentration (ppm)	Ratio: Downstream / Background	Significant Event if Ratio is greater than	Mark if Significant
MW-1	100	2A	72	1.389	6.540	
MW-2	120	2A	72	1.667	3.685	
В	110	2A	72	1.528	7.280	
MW-4		2A	72	0.000	1.422	

Constituent: CI Date: 10/12/17

Downstream Well	Downstream Concentration (ppm)	Background Well	Background Concentration (ppm)	Ratio: Downstream / Background	Significant Event if Ratio is greater than	Mark if Significant
MW-1	69	2A	68	1.015	7.708	
MW-2	110	2A	68	1.618	4.334	
В	84	2A	68	1.235	7.766	
MW-4		2A	68	0.000	2.347	

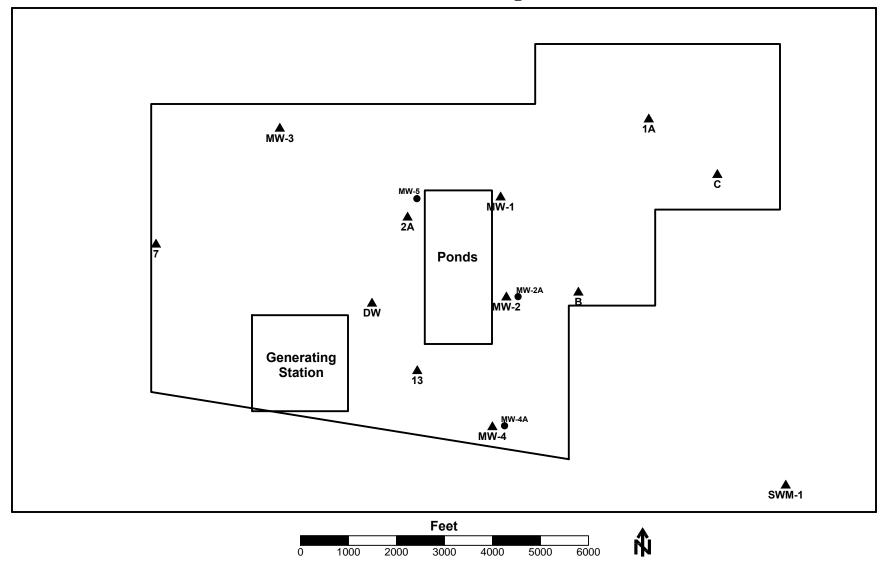
Constituent: TDS Date: 10/12/17

Downstream Well	Downstream Concentration (ppm)	Background Well	Background Concentration (ppm)	Ratio: Downstream / Background	Significant Event if Ratio is greater than	Mark if Significant
MW-1	470	2A	350	1.343	6.286	
MW-2	600	2A	350	1.714	3.393	
В	580	2A	350	1.657	9.525	
MW-4		2A	350		2.824	

# Statistical Analysis -- Groundwater Data Coolwater Generating Station

Constituent:	Na		Date: 2/7/18			
Downstream Well	Downstream Concentration (ppm)	Background Well	Background Concentration (ppm)	Ratio: Downstream / Background	Significant Event if Ratio is greater than	Mark if Significant
MW-1	65	2A	70	0.929	4.501	
MW-2	100	2A	70	1.429	3.925	
В	100	2A	70	1.429	3.270	
MW-4	88	2A	70	1.257	2.431	
Constituent:	SO4		Date: 2/7/18			
Downstream Well	Downstream Concentration (ppm)	Background Well	Background Concentration (ppm)	Ratio: Downstream / Background	Significant Event if Ratio is greater than	Mark if Significant
MW-1	100	2A	55	1.818	6.540	
MW-2	120	2A	55	2.182	3.685	
В	100	2A	55	1.818	7.280	
MW-4	79	2A	55	1.436	1.422	Х
Constituent:	CI		Date: 2/7/18			
Downstream Well	Downstream Concentration (ppm)	Background Well	Background Concentration (ppm)	Ratio: Downstream / Background	Significant Event if Ratio is greater than	Mark if Significant
MW-1	75	2A	92	0.815	7.708	
MW-2	100	2A	92	1.087	4.334	
В	96	2A	92	1.043	7.766	
MW-4	39	2A	92	0.424	2.347	
Constituent:	TDS		Date: 2/7/18			
Downstream Well	Downstream Concentration (ppm)	Background Well	Background Concentration (ppm)	Ratio: Downstream / Background	Significant Event if Ratio is greater than	Mark if Significant
	Concentration		Concentration	Downstream /	Event if Ratio	
Well	Concentration (ppm)	Well	Concentration (ppm)	Downstream / Background	Event if Ratio is greater than	
Well MW-1	Concentration (ppm) 450	Well 2A	Concentration (ppm) 290	Downstream / Background 1.552	Event if Ratio is greater than 6.286	
Well MW-1 MW-2	Concentration (ppm) 450 590	Well 2A 2A	Concentration (ppm) 290 290	Downstream / Background 1.552 2.034	Event if Ratio is greater than 6.286 3.393	

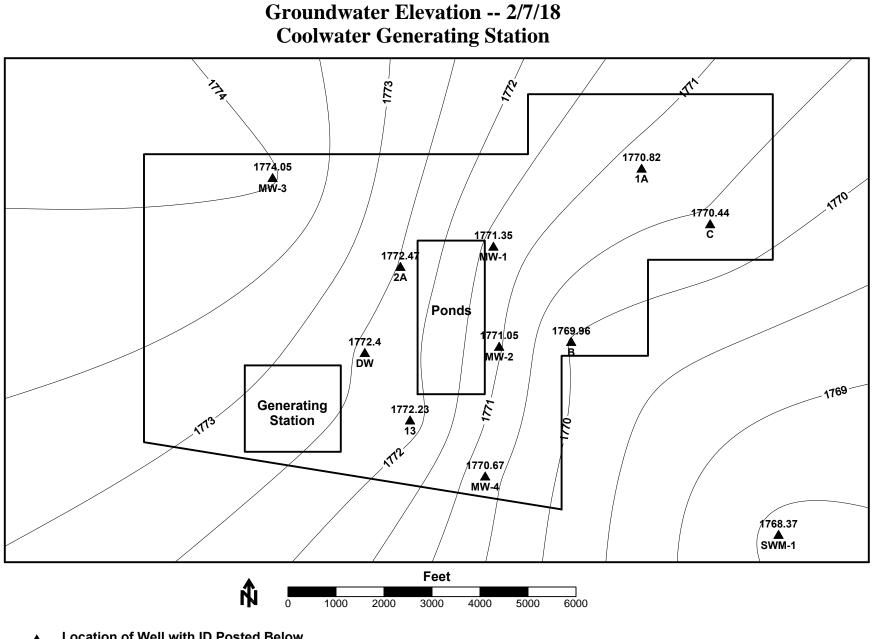
### Groundwater Sampling Well and Piezometer Locations Coolwater Generating Station



▲ Location of Sampling Well with ID Posted Below

• Location of Piezometer

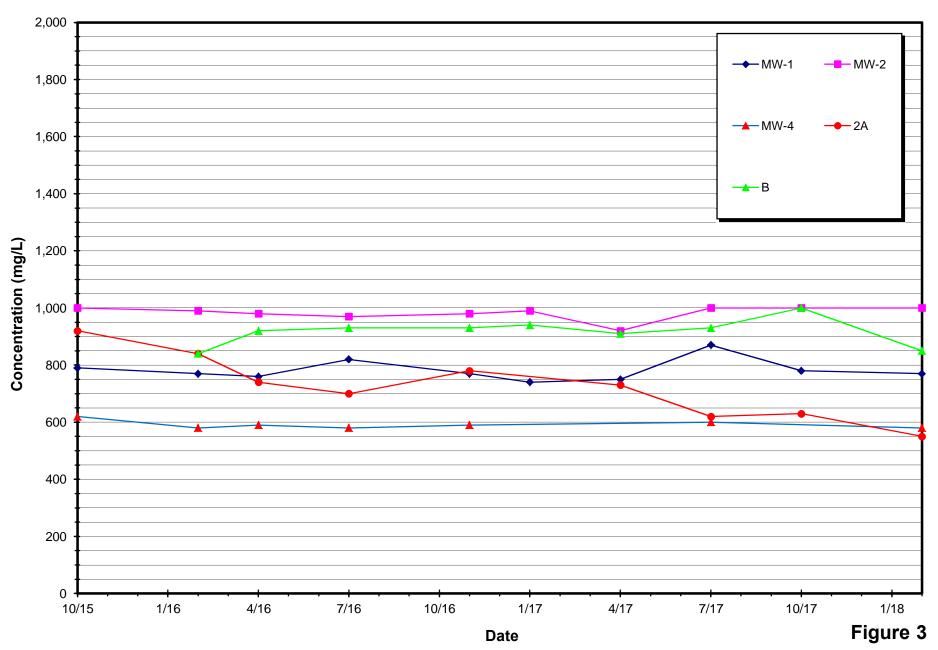
Figure 1



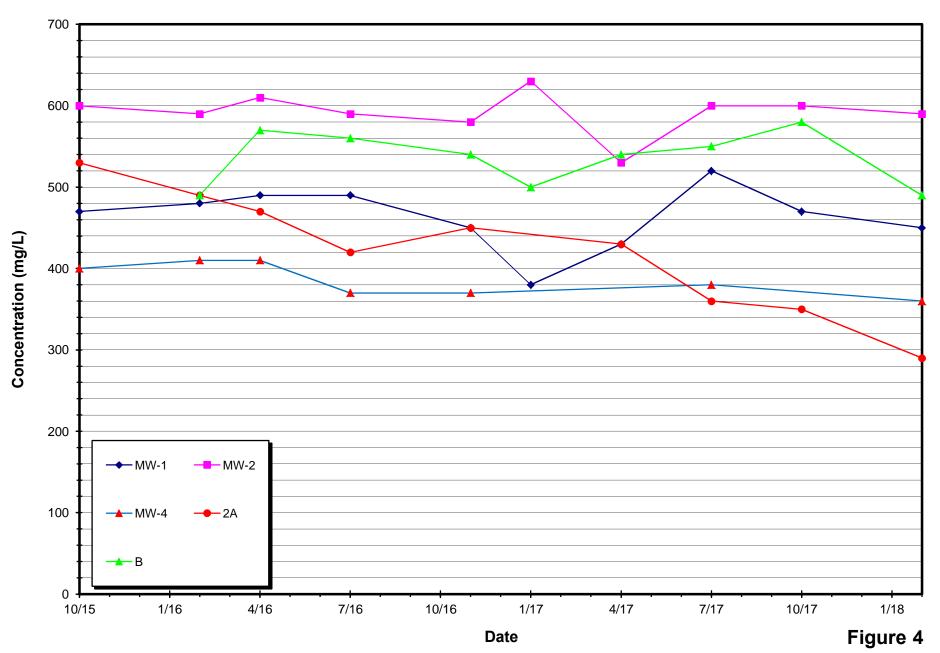
Location of Well with ID Posted Below Depth to Water Measurements and Samples

Figure 2

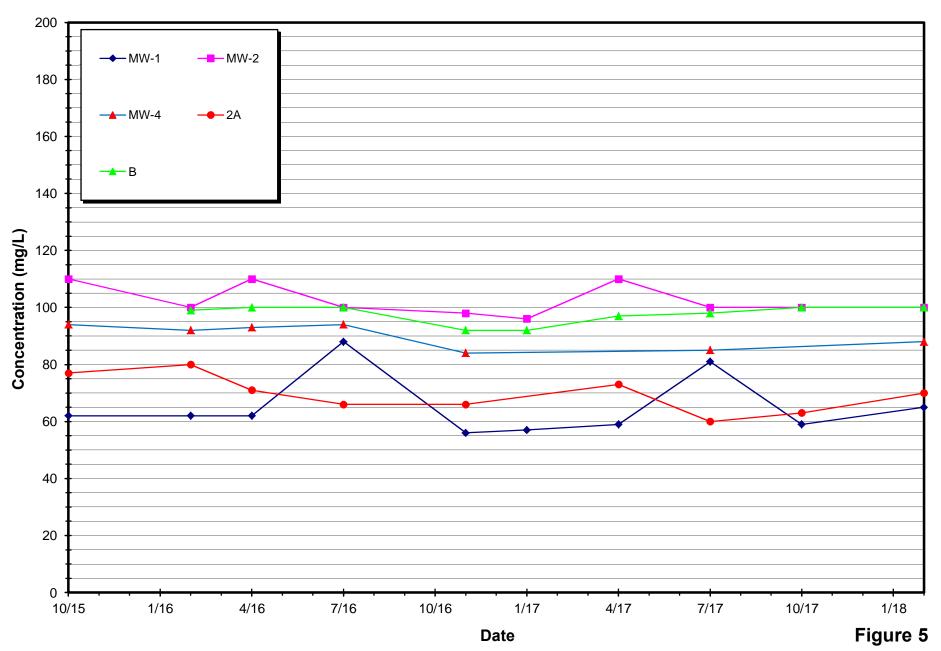
# **Electrical Conductivity**

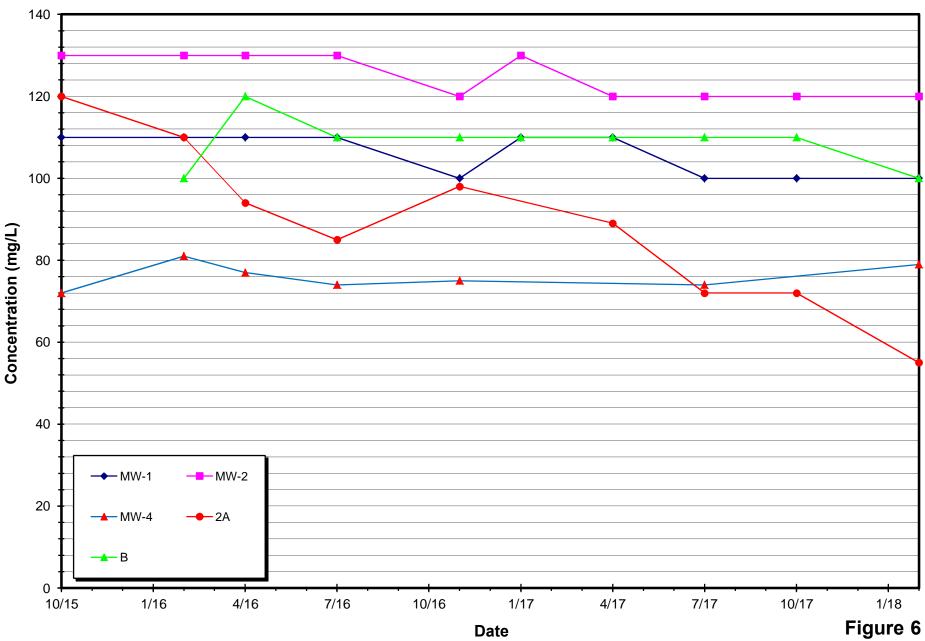


#### **Total Dissolved Solids**



# **Sodium Concentration**

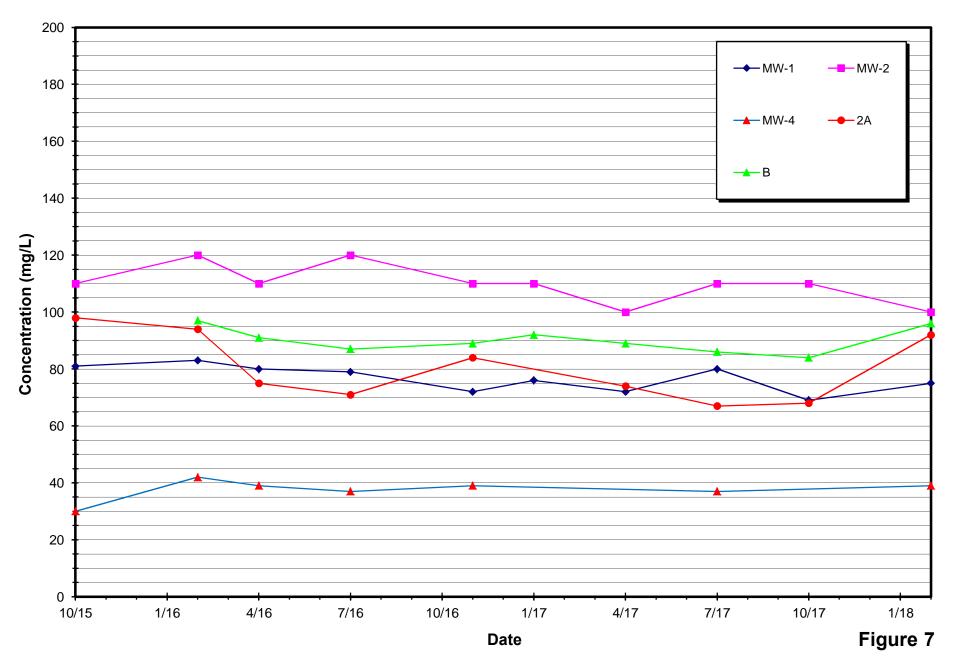




#### **Sulfate Concentration**

Date

# **Chloride Concentration**



# **Appendix A: Field Forms**

10/12/17 Sampling Event 2/7/18 Sampling Event

### Coolwater Generating Station Groundwater Quality Monitoring

### Second and Fourth Quarter Sampling

Performed by: P.	HAMILTON	<u> </u>	
Well ID	Date	Time	Sample ID
MW-1	10/12/17	1020	MWI
MW-2		1005	MW2
MW-2A			
MW-4			
MW-4A			
MW-5			
1A			
2A		0855	24
В		0930	В
С		0810	G
13		0840	13
Duplicate		0940	DUP
Comments: IA	FARLED PU	m? MOTOR	
mωy	FALLED PU PUMP FAIL	URĒ	
			Page 1 of 2

# Coolwater Generating Station Groundwater Quality Monitoring

Sampling Location	Date	Time	Sample ID
Pond 1	10/12/17	(	Dry
Pond 2			
Pond 3			
Pond 4			
Pond 5		ļ	
Pond Sump		1040	PS
Comments:			
			Page 2 of 2

# Coolwater Generating Station Groundwater Quality Monitoring

Well ID         Date         Time         Water Depth         Temp C         Sample ID           MW-1 $2/7/18$ 0830         180.76         17.8         MW1           MW-2 $2/7/18$ 0830         180.76         17.8         MW1           MW-2 $2/7/18$ 0940         181.87         19.9         MW2           MW-2 $2/7/18$ —         —         —         —           MW-4 $2/7/18$ 0955         203.88         22.4         MW4           MW-4 $2/7/18$ 0955         203.88         22.4         MW4           MW-4 $2/7/18$ 0955         203.88         22.4         MW4           MW-5 $2/7/18$ 0955         203.88         22.4         MW4           MW-5 $2/7/18$ —         —         —         —           MW-5 $2/7/18$ —         —         —         E $2/7/17$ 0740         181.29         17.3         2A           B $2/7/17$ 0850         178.69         19.4         B           C $2/7/17$ 0800	Performed b	y: P. HAN	NILTON			
MW-2 $2/7[17]$ $1040$ $171.87$ $19.9$ $MW2$ MW-2A $2/7[17]$ $   -$ MW-4 $2/7[17]$ $0955$ $203.88$ $22.4$ $MW4$ MW-4A $2/7[17]$ $0955$ $203.88$ $22.4$ $MW4$ MW-4A $2/7[17]$ $0955$ $203.88$ $22.4$ $MW4$ MW-5 $2/7[17]$ $0740$ $181.29$ $17.3$ $2A$ $2/7[17]$ $0850$ $178.69$ $19.4$ $B$ C $2/7[17]$ $0850$ $166.46$ $16,3$ $C$ $13$ $2/7[17]$ $0910$ $178.42$ $19.8$ $13$ Duplicate $2/7[17]$ $0910$ $178.42$ $19.8$ $13$ $0W$ $178.20$ $176.18$	Well ID				Temp C	Sample ID
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MW-1	2/7/18	0830	180.76	17.8	MWI
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MW-2	2/7/18	1040	181.87	19.9	MW2
MW-4A $2 7 18$ MW-5 $2 7 18$ 1A $2 7 18$ Electrical Problem         2A $2 7 18$ 0740       181.29       17.3       2A         B $2 7 18$ 0740       181.29       17.3       2A         B $2 7 18$ 0850       178.69       19.4       B         C $2 7 18$ 0850       178.69       19.4       B         C $2 7 18$ 0850       178.42       19.8       13         Duplicate $2 7 18$ 0910       188.42       19.8       13         Duplicate $2 7/18$ 0910       188.42       19.8       13         Duplicate $2 7/18$ 0910       188.42       19.8       13         Duplicate $2 7/18$ Dup         Ow       188.20	MW-2A	2/7/18	<i>~</i>			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MW-4	2/7/18	0955	203.88	22.4	MWY
1A $2 7 18$ $   -$	MW-4A	2/7/18				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MW-5	2/7/18				
B $2/7/17$ $0850$ $178.69$ $19.4$ B         c $2/7/17$ $0860$ $166.46$ $16,3$ C         13 $2/7/17$ $0910$ $178.42$ $19.8$ $13$ Duplicate $2/7/17$ $0910$ $178.42$ $19.8$ $13$ Comments:       SWM-1 $176.18$ Dup         Dw $178.20$ $178.20$	1A	2/7/18			}	Electrical Problem
c $2/7/13^{2}$ $0.860$ $166.46$ $16,3$ $G_{1}$ 13 $2/7/18$ $0.910$ $1.88.42$ $19.8$ $13$ Duplicate $2/7/18$ $$ $$ $Dop$ Comments:       SWM-1 $176.18$ DW $188.20$	2A	217/18	0740	181.29	17.3	2A
13 $2/7/18$ 0910       188.42       19.8       13         Duplicate $2/7/18$ $$ $$ $Dop$ Comments:       SWM-1       176.18         DW       188.20	В	2/7/17	0850	178.69	19.4	B
Duplicate $2/7/18$ —         —         Dup           Comments:         SWM-1         176.18         Dup           DW         178.20         178.20         176.18	С	2/7/18	0300	166.46	16,3	G
Comments: SWM-1 176.18 DW 188.20	13	2/7/18	0910	188.42	19.8	13
DW 188.20	Duplicate	2/7/18				DUP
	Comments:		SWM-1	176.18	•	
MW-3 168.58		_	DW	188.20	)	
			MW-3	168.5	8	

### First and Third Quarter Sampling

Page 1 of 2

# Coolwater Generating Station Groundwater Quality Monitoring

Sampling Location	Date	Time	Sample ID
Pond 1	2/1/18		Dry
Pond 2			
Pond 3			
Pond 4			
Pond 5		)	1
Pond Sump	2/7/18	1125	PS
Comments:			
			Page 2 of 2

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# **Appendix B: Laboratory Reports**

4/27/17 Sampling Event 10/12/17 Sampling Event 2/7/18 Sampling Event

# Certificate of Analysis

WECK LABORATORIES, INC.

Work Orders:	7D27049	Report Date:	5/18/2017
		Received Date:	4/27/2017
Broject:	Coolwater	Turnaround Time:	Normal
Floject.		Phones:	(626) 422-0523
		Fax:	(626) 913-5476
Attn:	Mr. Pat Hamilton	P.O. #:	
Client:	Hamilton Geotechnical 2715 Altamira Circle West Covina, CA 91792	Billing Code:	

Dear Mr. Pat Hamilton,

Enclosed are the results of analyses for samples received 4/27/17 with the Chain-of-Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample: C					Sampled	:04/27/17 8	:10 by	P. Hamilto
7D27049-01 (Water)								
Analyte		Result	MRL	Units	Dil	Analyzed	i	Qualifie
Method: EPA 200.7	Batch ID: W7D1512	Instr: ICP02		Prepai	red: 04/27/17	17:35		Analyst: JC
Sodium, Total		38	0.50	mg/l	1	05/14/17 1	5:43	
Method: EPA 300.0	Batch ID: W7E0363	Instr: LC12		Ртера	red: 05/05/17	15:14		Analyst: ja
Chloride, Total		31	0.50	mg/l	1	05/07/17 1	7:51	
Sulfate as SO4		42	0.50	mg/l	1	05/07/17 1	7:51	
Method: SM 2510B	Batch ID: W7E0011	Instr: AA02		Prepa	red: 05/01/17	10:51		Analyst: st
Specific Conductance (EC)		400	2.0	umhos/cm	1	05/01/17 1	3:16	
Method: SM 2540C	Batch ID: W7D1537	Instr: Inst		Prepa	red: 04/28/17	10:32		Analyst: st
Total Dissolved Solids		230	10	mg/l	1	04/28/17 1	7:31	
Method: SM 4500H+-B	Batch ID: W7D1497	Instr: AA02		Prepa	ed: 04/27/17	16:04		Analyst: st
рН	nie ferstelen zu bezonen der för stelftet földet "densfählten schar frammanter un besonnensennen	7.43	0.10	Units	1	04/27/17 1	8:03	20102 Xana Ba Xa Ma Xana wa 1950 wasao a
Sample: 2A					Sampled	:04/27/17 7	:55 by	P. Hamilto
7D27049-02 (Water)								
Analyte		Result	MRL	Units	Dil	Analyzed	4	Qualifie
Method: EPA 200.7	Batch ID: W7D1512	Instr: ICP02		Prepa	red: 04/27/1	7 17:35		Analyst: JC
Sodium, Total		73	0.50	mg/l	1	05/14/17 1	5:46	
Method: EPA 300.0	Batch ID: W7E0363	Instr: LC12		Prepa	r <b>ed:</b> 05/05/1	7 15:14		Analyst: ja
Chioride, Total		74	0.50	mg/l	1	05/07/17 1	7:51	
Sulfate as SO4		89	0.50	mg/l	1	05/07/17 1	7:51	
Method: SM 2510B	Batch ID: W7E0011	Instr: AA02		Prepa	red: 05/01/1	7 10:51		Analyst: st
Specific Conductance (EC)		730	2.0	umhos/cm	1	05/01/17 1	3:16	

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WECK LABORATORIES, INC.

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Sample: 2A	Ar for some som for an and an and a some some some some and an and a source of the source of the source of the				Sample	d: 04/27/17 7:55 b	y P. Hamiltor
7D27049-02 (Water)							Continued
Analyte		Result	MRL	Units	Dil	Anatyzed	Qualifie
Method: SM 2540C Total Dissolved Solids	Batch ID: W7D1537	Instr: Inst 430	10	<b>Prepa</b> mg/l	r <b>ed:</b> 04/28/1 1	17 10:32 04/28/17 17:31	Analyst: st
Method: SM 4500H+-B pH	Batch ID: W7D1497	Instr: AA02 7.86	0.10	<b>Prepa</b> Units	<b>red:</b> 04/27/1 1	17 16:04 04/27/17 18:03	Analyst: st
with the construction of the second second Sample: 1A	96-68-899 - H. 6496-141756-76-99-9995 - 44859 - 976-18-98-18-98-18-98-18-19-18-18-19-18-18-19-18-18-1 19-58-58-59-59-59-59-59-59-59-59-59-59-59-59-59-	oomaanad oo fac sooroodd andonimineer fifin i banhooddae bonactinin		ayan - Tanana Yora, arra ya arwa wa ara - Ayar		d: 04/27/17 8:25 b	
7D27049-03 (Water)		<b>.</b>		11			- ""
Analyte	Batch ID: 14/701510	Result	MRL	Units	Dil nodu 04/27/:	Analyzed	Qualifie
Method: EPA 200.7 Sodium, Total	Batch ID: W7D1512	Instr: ICP02 42	0.50	mg/l	r <b>ed:</b> 04/27/ <sup>-</sup> 1	05/14/17 15:49	Analyst: JC
Method: EPA 300.0 Chloride, Total	Batch ID: W7E0363	Instr: LC12 33	0.50	<b>Prepa</b> mg/l	red: 05/05/ 1	17 15:14 05/07/17 17:51	Analyst: ja
Sulfate as SO4		45	0.50	mg/l	1	05/07/17 17:51	
Method: SM 2510B Specific Conductance (EC)	Batch ID: W7E0011	Instr: AA02 440	2.0	<b>Prepa</b> umhos/cm	r <b>ed:</b> 05/01/ <sup>-</sup> 1	17 10:51 05/01/17 13:16	Analyst: st
Method: SM 2540C	Batch ID: W7D1537	Instr: Inst		-	<b>red:</b> 04/28/		Analyst: st
Total Dissolved Solids		260	10	mg/l	1	04/28/17 17:31	
Method: SM 4500H+-B pH	Batch ID: W7D1497	Instr: AA02 7.56	0.10	<b>Prepa</b> Units		04/27/17 18:03	Analyst: st
sample: B	gggegelde of same of each of each of each of each of the same book book book book book book book boo	a an	1977 Y	ti in fan Strifferige op oan it neder op oan		d: 04/27/17 8:55 b	
7D27049-04 (Water)					- 11		
		Result	MRL	Units	Dil	Analyzed	Qualifi
Method: EPA 200.7 Sodium, Total	Batch ID: W7D1512	instr: ICP02 97	0.50	mg/l	r <b>ed:</b> 04/27/ <sup>-</sup> 1	05/14/17 15:52	Analyst: JC
Method: EPA 300.0	Batch ID: W7E0363	Instr: LC12		Prepa	red: 05/05/	17 15:14	Analyst: ja
Chloride, Total		89	1.0	mg/l	2	05/07/17 17:51	
Sulfate as SO4		110	1.0	mg/l	2	05/07/17 17:51	
Method: SM 2510B Specific Conductance (EC)	Batch ID: W7E0011	Instr: AA02 910	2.0	Prepa umhos/cm	r <b>ed:</b> 05/01/ 1	17 10:51 05/01/17 13:16	Analyst: st
Method: SM 2540C Total Dissolved Solids	Batch ID: W7D1537	instr: Inst 540	10	<b>Prepa</b> mg/l	r <b>ed:</b> 04/28/ <sup>-</sup> 1	17 10:32 04/28/17 17:31	Analyst: st
				-			
Method: SM 4500H+-B pH	Batch ID: W7D1497	Instr: AA02 7.93	0.10	Prepa Units	r <b>ed:</b> 04/27/ <sup>-</sup> 1	04/27/17 18:03	Analyst: st
Sample: MW2	undille an en en de la de l	ange of the task in sector of the task in the task of task		aaan Afrika maan af ann an eenan ar maar baaan g <b>herba</b>	Sample	ed: 04/27/17 9:10 b	y P. Hamilto
7D27049-05 (Water) Analyte		Result	MRL	Units	Dil	Analyzed	Qualifi
Method: EPA 200.7	Batch ID: W7D1512	Instr: ICP02	MAL		red: 04/27/	-	Analyst: JC
	<b>Batti 10.</b> W/01512	110	0.50	mg/l	1	05/14/17 15:55	Analyst. JC
Sodium, Totał		Instr: LC12			red: 05/05/		Analyst: ja
Sodium, Totał Method: EPA 300.0	Batch ID: W7E0363						
Sodium, Totał Method: EPA 300.0 Chloride, Total	Batch ID: W7E0363	100	1.0 1.0	mg/l	2	05/07/17 17:51	
Sodium, Totał Method: EPA 300.0	Batch ID: W7E0363 Batch ID: W7E0011		1.0 1.0	mg/l	2 2 ared: 05/01/	05/07/17 17:51	Analyst: si

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FINAL REPORT

					Sample	ed: 04/27/17 9:10 b	v P. Hamilto
ample: MW2 7D27049-05 (Water)							Continued
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifi
lethod: SM 2510B (Continued)	Batch ID: W7E0011	Instr: AA02		Prepa	red: 05/01/	17 10:51	Analyst: s
Specific Conductance (EC)		920	2.0	umhos/cm	1	05/01/17 13:16	
lethod: SM 2540C	Batch ID: W7D1537	Instr: Inst		Prepa	red: 04/28/	17 10:32	Analyst: s
Total Dissolved Solids		530	10	mg/l	1	04/28/17 17:31	
<b>1ethod:</b> SM 4500H+-B	Batch ID: W7D1497	Instr: AA02		Prepa	red: 04/27/*	17 16:04	Analyst: s
рН		8.11	0.10	Units	1	04/27/17 18:03	-
али и во протоком протоком на протоком протоком протоком протоком протоком протоком протоком протоком протоком ample: MW1	ve – – é desemble ser considerable et la considera da conserva y segur segur segur de la conserva <sub>de</sub> la dese dés	ennennen slaat, hatti ingerintriingen kerker o	to te do vorece mudatlana		Sample	ed: 04/27/17 9:25 b	y P. Hamilto
7D27049-06 (Water)					•		•
Analyte		Result	MRL	Units	Dil	Analyzed	0
lethod: EPA 200.7	Batch ID: W7D1512	Instr: ICP02	MILL		red: 04/27/*	Analyzed	Qualifi Analyst: J
Sodium, Total	Batch 19. W/01512	59	0.50	mg/l	1	05/14/17 15:58	Analyst: J
				-			
lethod: EPA 300.0 Chloride, Total	Batch ID: W7E0363	Instr: LC12 72	1.0	Prepa mg/l	red: 05/05/* 2	17 15:14 05/07/17 17:51	Analyst: ja
Sulfate as SO4		110	1.0	mg/l	2	05/07/17 17:51	
		110	1.0	nig/i	2	00/0//17 17:01	
fethod: SM 2510B	Batch ID: W7E0011	Instr: AA02		-	red: 05/01/		Analyst: S
Specific Conductance (EC)		750	2.0	umhos/cm	1	05/01/17 13:16	
lethod: SM 2540C	Batch ID: W7D1537	instr: Inst		Prepa	<b>red:</b> 04/28/	17 10:32	Analyst: s
Total Dissolved Solids		430	10	mg/l	1	04/28/17 17:31	
lethod: SM 4500H+-B	Batch ID: W7D1497	Instr: AA02		Prepa	red: 04/27/	17 16:04	Analyst: s
рH		7.74	0.10	Units	1	04/27/17 18:03	
ample: PS	na of the dimension of the second many many more than a second second second second second second second second	an Marana Palan ada an an an 1989, 689 a a - 99,000 gar 1993 a margar an an		i (1987 - 1977) an an Anna an Anna an Anna Anna	Sample	ed: 04/27/17 9:30 b	y P. Hamilto
ample. I S							
7D27049-07 (Water)							
7D27049-07 (Water)		Result	MRL	Units	Dil	Analyzed	Qualif
7D27049-07 (Water) Analyte	<b>Batch ID:</b> W7D1512	Result	MRL	Units Prepa	<b>Dil</b> red: 04/27/ <sup>-</sup>	<b>Analyzed</b> 17 17:35	-
7D27049-07 (Water)	Batch ID: W7D1512	Result instr: ICP02 38	<b>MRL</b> 0.50		<b>Dii</b> red: 04/27/ <sup>-</sup> 1	-	-
7D27049-07 (Water) Analyte lethod: EPA 200.7 Sodium, Total		Instr: ICP02 38		<b>Prepa</b> mg/l	r <b>ed:</b> 04/27/ <sup>-</sup> 1	17 17:35 05/14/17 16:01	Analyst: Jo
7D27049-07 (Water) Analyte Nethod: EPA 200.7 Sodium, Total Nethod: EPA 300.0	Batch ID: W7D1512 Batch ID: W7E0363	Instr: ICP02		Prepa mg/l Prepa	red: 04/27/	17 17:35 05/14/17 16:01 17 15:14	Analyst: Jo
7D27049-07 (Water) Anaiyte Nethod: EPA 200.7 Sodium, Total Nethod: EPA 300.0 Chloride, Total		Instr: ICP02 38 Instr: LC12 32	0.50 1.0	Prepa mg/l Prepa mg/l	red: 04/27/ 1 red: 05/05/ 2	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51	Qualifi Analyst: J( Analyst: j)
7D27049-07 (Water) Analyte Method: EPA 200.7 Sodium, Total Method: EPA 300.0 Chloride, Total Sulfate as SO4	Batch ID: W7E0363	Instr: ICP02 38 Instr: LC12 32 44	0.50	Prepa mg/l Prepa mg/l mg/l	red: 04/27/ 1 red: 05/05/ 2 2	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51	Analyst: Jo
7D27049-07 (Water) Analyte Method: EPA 200.7 Sodium, Total Method: EPA 300.0 Chloride, Total Sulfate as SO4 Method: SM 2510B		Instr: ICP02 38 Instr: LC12 32 44 Instr: AA02	0.50 1.0 1.0	Prepa mg/l mg/l mg/l Prepa	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51	Analyst: Jo
7D27049-07 (Water) Analyte Method: EPA 200.7 Sodium, Total Method: EPA 300.0 Chloride, Total Sulfate as SO4	Batch ID: W7E0363	Instr: ICP02 38 Instr: LC12 32 44	0.50 1.0	Prepa mg/l Prepa mg/l mg/l	red: 04/27/ 1 red: 05/05/ 2 2	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51	Analyst: Jo
7D27049-07 (Water) Analyte Method: EPA 200.7 Sodium, Total Method: EPA 300.0 Chloride, Total Sulfate as SO4 Method: SM 2510B Specific Conductance (EC) Method: SM 2540C	Batch ID: W7E0363	Instr: ICP02 38 Instr: LC12 32 44 Instr: AA02 420 Instr: Inst	0.50 1.0 1.0 2.0	Prepa mg/l mg/l mg/l Prepa umhos/cm Prepa	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/ 1 red: 04/28/	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51 05/01/17 13:16 17 10:32	Analyst: J Analyst: j Analyst: s
7D27049-07 (Water) Anaiyte Method: EPA 200.7 Sodium, Total Method: EPA 300.0 Chioride, Totai Sulfate as SO4 Method: SM 2510B Specific Conductance (EC)	Batch ID: W7E0363 Batch ID: W7E0011	Instr: ICP02 38 Instr: LC12 32 44 Instr: AA02 420	0.50 1.0 1.0	Prepa mg/l mg/l mg/l Prepa umhos/cm	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/ 1	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51 05/01/17 13:16	Analyst: J Analyst: j Analyst: s
7D27049-07 (Water) Analyte Method: EPA 200.7 Sodium, Total Method: EPA 300.0 Chloride, Total Sulfate as SO4 Method: SM 2510B Specific Conductance (EC) Method: SM 2540C	Batch ID: W7E0363 Batch ID: W7E0011	Instr: ICP02 38 Instr: LC12 32 44 Instr: AA02 420 Instr: Inst 240 Instr: AA02	0.50 1.0 1.0 2.0 10	Prepa mg/l Prepa mg/l mg/l Prepa mg/l Prepa	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/ 1 red: 04/28/ 1 red: 04/27/	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51 05/01/17 13:16 17 10:32 04/28/17 17:31 17 16:04	Analyst: J Analyst: j Analyst: s Analyst: s
7D27049-07 (Water) Anaiyte Method: EPA 200.7 Sodium, Total Method: EPA 300.0 Chioride, Total Sulfate as SO4 Method: SM 2510B Specific Conductance (EC) Method: SM 2540C Total Dissolved Solids	Batch ID: W7E0363 Batch ID: W7E0011 Batch ID: W7D1537	Instr: ICP02 38 Instr: LC12 32 44 Instr: AA02 420 Instr: Inst 240	0.50 1.0 1.0 2.0	Prepa mg/l Prepa mg/l mg/l Prepa umhos/cm Prepa mg/l	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/ 1 red: 04/28/ 1	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51 05/01/17 13:16 17 10:32 04/28/17 17:31	Analyst: Jo
7D27049-07 (Water) Anaiyte Method: EPA 200.7 Sodium, Total Method: EPA 300.0 Chloride, Total Sulfate as SO4 Method: SM 2510B Specific Conductance (EC) Method: SM 2540C Total Dissolved Solids Method: SM 4500H+-B	Batch ID: W7E0363 Batch ID: W7E0011 Batch ID: W7D1537	Instr: ICP02 38 Instr: LC12 32 44 Instr: AA02 420 Instr: Inst 240 Instr: AA02	0.50 1.0 1.0 2.0 10	Prepa mg/l Prepa mg/l mg/l Prepa mg/l Prepa	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/ 1 red: 04/28/ 1 red: 04/27/ 1	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51 05/01/17 13:16 17 10:32 04/28/17 17:31 17 16:04 04/27/17 18:03	Analyst: J Analyst: j Analyst: s Analyst: s Analyst: s
7D27049-07 (Water) Analyte Method: EPA 200.7 Sodium, Total Method: EPA 300.0 Chloride, Total Sulfate as SO4 Method: SM 2510B Specific Conductance (EC) Method: SM 2540C Total Dissolved Solids Method: SM 4500H+-B pH	Batch ID: W7E0363 Batch ID: W7E0011 Batch ID: W7D1537	Instr: ICP02 38 Instr: LC12 32 44 Instr: AA02 420 Instr: Inst 240 Instr: AA02	0.50 1.0 1.0 2.0 10	Prepa mg/l Prepa mg/l mg/l Prepa mg/l Prepa	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/ 1 red: 04/28/ 1 red: 04/27/ 1	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51 05/01/17 13:16 17 10:32 04/28/17 17:31 17 16:04 04/27/17 18:03	Analyst: J Analyst: j Analyst: s Analyst: s Analyst: s
TD27049-07 (Water)         Analyte         Method: EPA 200.7         Sodium, Total         Method: EPA 300.0         Chloride, Total         Sulfate as SO4         Method: SM 2510B         Specific Conductance (EC)         Method: SM 2540C         Total Dissolved Solids         Method: SM 4500H+-8         pH         ample:       13	Batch ID: W7E0363 Batch ID: W7E0011 Batch ID: W7D1537	Instr: ICP02 38 Instr: LC12 32 44 Instr: AA02 420 Instr: Inst 240 Instr: AA02	0.50 1.0 1.0 2.0 10	Prepa mg/l Prepa mg/l mg/l Prepa mg/l Prepa	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/ 1 red: 04/28/ 1 red: 04/27/ 1	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51 05/01/17 13:16 17 10:32 04/28/17 17:31 17 16:04 04/27/17 18:03	Analyst: J Analyst: j Analyst: s Analyst: s Analyst: s y P. Hamilto
TD27049-07 (Water)         Analyte         Method: EPA 200.7         Sodium, Total         Method: EPA 300.0         Chloride, Total         Sulfate as SO4         Method: SM 2510B         Specific Conductance (EC)         Method: SM 2540C         Total Dissolved Solids         Method: SM 4500H+-B         pH         ample:       13         7D27049-08 (Water)	Batch ID: W7E0363 Batch ID: W7E0011 Batch ID: W7D1537	Instr: ICP02 38 instr: LC12 32 44 instr: AA02 420 instr: Inst 240 instr: AA02 8.04	0.50 1.0 1.0 2.0 10 0.10	Prepa mg/l Prepa mg/l Prepa umhos/cm Prepa Units Units	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/ 1 red: 04/28/ 1 red: 04/27/ 1 Sample	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51 05/01/17 13:16 17 10:32 04/28/17 17:31 17 16:04 04/27/17 18:03 ed: 04/27/17 8:40 b Analyzed	Analyst: J Analyst: j Analyst: s Analyst: s Analyst: s y P. Hamilta Qualif
TD27049-07 (Water)         Analyte         Method: EPA 200.7         Sodium, Total         Method: EPA 300.0         Chloride, Total         Sulfate as SO4         Method: SM 2510B         Specific Conductance (EC)         Method: SM 2540C         Total Dissolved Solids         Method: SM 4500H+-B         pH         ample:       13         TD27049-08 (Water)	Batch ID: W7E0363 Batch ID: W7E0011 Batch ID: W7D1537 Batch ID: W7D1497	Instr: ICP02 38 Instr: LC12 32 44 Instr: AA02 420 Instr: Inst 240 Instr: AA02 8.04	0.50 1.0 1.0 2.0 10 0.10	Prepa mg/l Prepa mg/l Prepa umhos/cm Prepa Units Units	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/ 1 red: 04/28/ 1 red: 04/27/ 1 Sample Dil	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51 05/01/17 13:16 17 10:32 04/28/17 17:31 17 16:04 04/27/17 18:03 ed: 04/27/17 8:40 b Analyzed	Analyst: J Analyst: j Analyst: s Analyst: s Analyst: s y P. Hamilta Qualif
TD27049-07 (Water)         Analyte         Method: EPA 200.7         Sodium, Total         Method: EPA 300.0         Chloride, Total         Sulfate as SO4         Method: SM 2510B         Specific Conductance (EC)         Method: SM 2540C         Total Dissolved Solids         Method: SM 4500H+-B         pH         ample:       13         TD27049-08 (Water)         Analyte         Method: EPA 200.7	Batch ID: W7E0363 Batch ID: W7E0011 Batch ID: W7D1537 Batch ID: W7D1497	Instr: ICP02 38 Instr: LC12 32 44 Instr: AA02 420 Instr: Inst 240 Instr: AA02 8.04 Result	0.50 1.0 1.0 2.0 10 0.10 MRL	Prepa mg/l Prepa mg/l Prepa umhos/cm Prepa Units Units Prepa Units Prepa	red: 04/27/ 1 red: 05/05/ 2 2 red: 05/01/ 1 red: 04/28/ 1 red: 04/27/ 1 Sample Dil red: 04/27/	17 17:35 05/14/17 16:01 17 15:14 05/07/17 17:51 05/07/17 17:51 17 10:51 05/01/17 13:16 17 10:32 04/28/17 17:31 17 16:04 04/27/17 18:03 ed: 04/27/17 8:40 b <b>Analyzed</b> 17 17:35 05/14/17 16:04	Analyst: J Analyst: j Analyst: s Analyst: s Analyst: s



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#### Sample Results

#### Sample:

7D27049-08 (Water)

**FINAL REPORT** 

#### (Continued)

Sampled: 04/27/17 8:40 by P. Hamilton (Continued)

7D27049-08 (Water)						(	continued)
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 300.0 (Continued)	Batch ID: W7E0363	Instr: LC12		Prepa	r <b>ed:</b> 05/05,	/17 15:14	Analyst: jan
Sulfate as SO4		100	1.0	mg/l	2	05/07/17 17:51	
Method: SM 2510B	Batch ID: W7E0011	Instr: AA02		Prepa	r <b>ed:</b> 05/01,	/17 10:51	Analyst: stg
Specific Conductance (EC)		890	2.0	umhos/cm	1	05/01/17 13:16	
Method: SM 2540C	Batch ID: W7D1537	Instr: Inst		Prepa	red: 04/28	/17 10:32	Analyst: stg
Total Dissolved Solids		550	10	mg/l	1	04/28/17 17:31	
Method: SM 4500H+-B	Batch ID: W7D1497	Instr: AA02		Prepa	red: 04/27,	/17 16:04	Analyst: stg
рН		7.72	0.10	Units	1	04/27/17 18:03	*
Sample: DUP					Sampl	led: 04/27/17 9:00 b	y P. Hamilton
7D27049-09 (Water)							
Analyte		Result	MRI.	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W7D1512	Instr: ICP02		Prepa	red: 04/27,	/17 17:35	Analyst: JCK
Sodium, Total		57	0.50	mg/l	1	05/14/17 16:06	
Method: EPA 300.0	Batch ID: W7E0363	Instr: LC12		Prepa	red: 05/05	/17 15:14	Analyst: jan
Chioride, Total		73	1.0	mg/l	2	05/07/17 17:51	
Sulfate as SO4		110	1.0	mg/l	2	05/07/17 17:51	
Method: SM 2510B	Batch ID: W7E0011	Instr: AA02		Prepa	red: 05/01	/17 10:51	Analyst: stg
Specific Conductance (EC)		750	2.0	umhos/cm	1	05/01/17 13:16	

Specific Conductance (EC)		750	2.0	umhos/cm	1	05/01/17 13:16	, in the second s
Method: SM 2540C	Batch ID: W7D1537	instr: inst		Prepar	<b>ed:</b> 04/28/	17 10:32	Analyst: stg
Total Dissolved Solids		440	10	mg/l	1	04/28/17 17:31	
Method: SM 4500H+-B	Batch ID: W7D1497	Instr: AA02		Prepar	ed: 04/27/	17 16:04	Analyst: stg
рН		7.79	0.10	Units	1	04/27/17 18:03	*



#### Quality Control Results

# Certificate of Analysis

FINAL REPORT

Anions by IC, EPA Method 300.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifi
atch: W7E0363 - Direct Injection										
Blank (W7E0363-BLK1)			P	repared: 05/05/1	17 Analyzed: (	05/07/17				
Chloride, Total	ND	0.50	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
LCS (W7E0363-BS1)			P	repared: 05/05/*	17 Analyzed: 0	5/07/17				
Chloride, Total	10.5	0.50	mg/l	10.0	-	105	90-110			
Sulfate as SO4	10.4	0.50	mg/l	10.0		104	90-110			
Matrix Spike (W7E0363-MS1)	Source: 7D27049	-02	P	repared: 05/05/'	17 Analvzed: (	5/07/17				
Chloride, Total	180	5.0	mg/l	100	74.5	105	76-118			
Sulfate as SO4	197	5.0	mg/l	100	89.3	108	78-111			
Matrix Spike (W7E0363-MS2)	Source: 7D27049	1-03	P	repared: 05/05/	17 Analyzed (	5/07/17				
Chloride, Total	136	5.0	mg/i	100	32.7	103	76-118			
Sulfate as SO4	149	5.0	mg/l	100	44.9	104	78-111			
Matrix Spike Dup (W7E0363-MSD1)	Source: 7D27049	-02	р	repared: 05/05/'	17 Analyzad: (	5/07/17				
Chloride, Total	180	5.0	mg/l	100	74.5	105	76-118	0.2	20	
Sulfate as SO4	196	5.0	mg/l	100	89.3	106	78-111	0.8	20	
Matrix Spike Dup (W7E0363-MSD2)	Source: 7D27049	-03	D	repared: 05/05/'	17 Anabradi (	15/07/17				
Chioride, Total	137	5.0	mg/l	100	32.7	104	76-118	0.7	20	
		5.0	mg/l	100	44.9	104	78-111	0.4	20	
Suitare as SU4	49									
	149	Salah Sa	a	An	er selente strategen en de operaties	e and a state of the second	held control and a second of the		12948 Wantifa an feodro y na	Annual course of Addressing
Sin balles and we we we we we want to be a state of the	n n. Mainte de la compansa de la com	Salah Sa		Mannender radiert bis strees sie zu	aa amaada a sagaa ah a	C	hell.cometa.com.com.com.com.com	ni	12041 Weedsteer fered voor	ALL REPORTED AN AUGUSTION
Conventional Chemistry/Physical Parameters by A	n n. Mainte de la compansa de la com	Salah Sa	Units	Spike	Source Result	%	%REC Limits	RPD	RPD Limit	Qualif
Conventional Chemistry/Physical Parameters by A	APHA/EPA/ASTM Metho	ods	erszelesztettettettettettettettettettettettettet	spike		%REC		RPD		Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation	APHA/EPA/ASTM Metho	ods	erszelesztettettettettettettettettettettettettet	spike Spike Level				RPD		Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation	APHA/EPA/ASTM Metho	ods	erszelesztettettettettettettettettettettettettet	spike Spike Level	Result			RPD		Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH	APHA/EPA/ASTM Metho Result	ods mrl 0.10	Units	Spike Level Prepared & A 7.41	Result Analyzed: 04/2	<b>7/17</b> 101	Limits	RPD		Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH	APHA/EPA/ASTM Metho Result 7.45	ods mrl 0.10	Units	Spike Level Prepared & A 7.41	Result	<b>7/17</b> 101	Limits	RPD 2		Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27049	ods MRL 0.10	Units	Spike Level Prepared & A 7.41	Result Analyzed: 04/2 Analyzed: 04/2	<b>7/17</b> 101	Limits		Limit	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27049	ods MRL 0.10	Units	Spike Level Prepared & A 7.41 Prepared & A	<b>Result</b> Analyzed: 04/2' Analyzed: 04/2 7.43	7/17 101 7/17	Limits		Limit	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27049	ods MRL 0.10	Units Units Units	Spike Level Prepared & A 7.41 Prepared & A	Result Analyzed: 04/2 Analyzed: 04/2	7/17 101 7/17	Limits		Limit	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27045 7.57	0.10 0.10 0.10 0.10	Units	Spike Level Prepared & A 7.41 Prepared & A Prepared & A	<b>Result</b> Analyzed: 04/2 <sup>*</sup> 7.43 Analyzed: 04/2 <sup>*</sup>	7/17 101 7/17 8/17	Limits		Limit	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1)	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27045 7.57 ND	0.10 0.10 0.10 0.10	Units Units Units mg/l	Spike Level Prepared & A 7.41 Prepared & A Prepared & A	<b>Result</b> Analyzed: 04/2' Analyzed: 04/2 7.43	7/17 101 7/17 8/17 8/17	Limits 98.8-101		Limit	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-BS1) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1)	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27045 7.57	0.10 0.10 0.10 0.10	Units Units Units	Spike Level Prepared & A 7.41 Prepared & A Prepared & A	<b>Result</b> Analyzed: 04/2 <sup>*</sup> 7.43 Analyzed: 04/2 <sup>*</sup>	7/17 101 7/17 8/17	Limits		Limit	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-BS1) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1) Total Dissolved Solids	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27045 7.57 ND	ods MRL 0.10 9-01 0.10 10 10	Units Units Units mg/l	Spike Level Prepared & A 7.41 Prepared & A Prepared & A Prepared & A 824	<b>Result</b> Analyzed: 04/2' 7.43 Analyzed: 04/2 Analyzed: 04/2	7/17 101 7/17 8/17 8/17 100	Limits 98.8-101	2	Limit	Qualif
Conventional Chemistry/Physical Parameters by A Analyte Eatch: W7D1497 - General Preparation LCS (W7D1497-BS1) pH Duplicate (W7D1497-DUP1) pH Eatch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1)	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27045 7.57 ND 820	ods MRL 0.10 9-01 0.10 10 10	Units Units Units mg/l	Spike Level Prepared & A 7.41 Prepared & A Prepared & A Prepared & A 824	<b>Result</b> Analyzed: 04/2' 7.43 Analyzed: 04/2 Analyzed: 04/2	7/17 101 7/17 8/17 8/17 100	Limits 98.8-101		Limit	Qualit
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-BS1) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1) Total Dissolved Solids Duplicate (W7D1537-DUP1)	APHA/EPA/ASTM Metho Result 7.45 5ource: 7D27049 7.57 ND 820 Source: 7D27050	Dods MRL 0.10 0.10 0.10 10 10 10 10	Units Units Units mg/l mg/l	Spike Level Prepared & A 7.41 Prepared & A Prepared & A Prepared & A 824 Prepared & A	<b>Result</b> Analyzed: 04/2' 7.43 Analyzed: 04/2 Analyzed: 04/2	7/17 101 7/17 8/17 8/17 100 8/17	Limits 98.8-101	2	Limit	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27045 7.57 ND 820 Source: 7D27050 1230	Dods MRL 0.10 0.10 0.10 10 10 10 10	Units Units Units mg/l mg/l	Spike Level Prepared & A 7.41 Prepared & A Prepared & A Prepared & A 824 Prepared & A	<b>Result</b> Analyzed: 04/2' 7.43 Analyzed: 04/2 Analyzed: 04/2 Analyzed: 04/2 1230	7/17 101 7/17 8/17 8/17 100 8/17	Limits 98.8-101	2	Limit	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids Duplicate (W7D1537-DUP2)	APHA/EPA/ASTM Metho Result 7.45 5ource: 7D27045 7.57 ND 820 Source: 7D27050 1230 Source: 7D28002	Dods MRL 0.10 0.10 0.10 10 10 2-04 10 2-01	Units Units Units mg/l mg/l	Spike Level Prepared & A 7.41 Prepared & A Prepared & A Prepared & A 824 Prepared & A	Result Analyzed: 04/2' 7.43 Analyzed: 04/2: Analyzed: 04/2: Analyzed: 04/2 Analyzed: 04/2 Analyzed: 04/2	7/17 101 7/17 8/17 8/17 100 8/17	Limits 98.8-101	2	Limit 3.1	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids	APHA/EPA/ASTM Metho Result 7.45 5ource: 7D27045 7.57 ND 820 Source: 7D27050 1230 Source: 7D28002	Dods MRL 0.10 0.10 0.10 10 10 2-04 10 2-01	Units Units Units mg/l mg/l	Spike Level Prepared & A 7.41 Prepared & A Prepared & A 824 Prepared & A Prepared & A	Result Analyzed: 04/2' 7.43 Analyzed: 04/2: Analyzed: 04/2: Analyzed: 04/2 Analyzed: 04/2 Analyzed: 04/2	7/17 101 7/17 8/17 8/17 8/17 8/17	Limits 98.8-101	2	Limit 3.1	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids	APHA/EPA/ASTM Metho Result 7.45 5ource: 7D27045 7.57 ND 820 Source: 7D27050 1230 Source: 7D28002	Dods MRL 0.10 0.10 0.10 10 10 2-04 10 2-01	Units Units Units mg/l mg/l	Spike Level Prepared & A 7.41 Prepared & A Prepared & A 824 Prepared & A Prepared & A	Result Analyzed: 04/2' 7.43 Analyzed: 04/2: Analyzed: 04/2: 1230 Analyzed: 04/2 2740	7/17 101 7/17 8/17 8/17 8/17 8/17	Limits 98.8-101	2	Limit 3.1	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids atch: W7E0011 - General Preparation Blank (W7E0011-BLK1) Specific Conductance (EC)	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27045 7.57 ND 820 Source: 7D27050 1230 Source: 7D28002 2480	Dods MRL 0.10 0.10 0.10 10 10 2-01 10	Units Units Units mg/l mg/l mg/l	Spike Level Prepared & A 7.41 Prepared & A Prepared & A Prepared & A Prepared & A Prepared & A Prepared & A	Result Analyzed: 04/2' 7.43 Analyzed: 04/2: Analyzed: 04/2: 1230 Analyzed: 04/2 2740	7/17 101 7/17 8/17 8/17 8/17 8/17 8/17	Limits 98.8-101	2	Limit 3.1	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids Duplicate (W7D1537-DUP2) Total Dissolved Solids atch: W7E0011 - General Preparation Blank (W7E0011-BLK1)	APHA/EPA/ASTM Metho Result 7.45 Source: 7D27045 7.57 ND 820 Source: 7D27050 1230 Source: 7D28002 2480	Dods MRL 0.10 0.10 0.10 10 10 2-01 10	Units Units Units mg/l mg/l mg/l	Spike Level Prepared & A 7.41 Prepared & A Prepared & A Prepared & A Prepared & A Prepared & A Prepared & A	Result Analyzed: 04/2' 7.43 Analyzed: 04/2 Analyzed: 04/2 1230 Analyzed: 04/2 2740	7/17 101 7/17 8/17 8/17 8/17 8/17 8/17	Limits 98.8-101	2	Limit 3.1	Qualif
Conventional Chemistry/Physical Parameters by A Analyte atch: W7D1497 - General Preparation LCS (W7D1497-B51) pH Duplicate (W7D1497-DUP1) pH atch: W7D1537 - General Preparation Blank (W7D1537-BLK1) Total Dissolved Solids LCS (W7D1537-BS1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids Duplicate (W7D1537-DUP1) Total Dissolved Solids atch: W7E0011 - General Preparation Blank (W7E0011 - BLK1) Specific Conductance (EC) LCS (W7E0011-BS1)	APHA/EPA/ASTM Metho Result 7.45 5ource: 7D27045 7.57 ND 820 Source: 7D27050 1230 Source: 7D28002 2480	Dods MRL 0.10 0.10 0.10 10 10 2-01 10 2-01 10 2.0 2.0	Units Units Units mg/l mg/l mg/l umhos/cm	Spike Level Prepared & A 7.41 Prepared & A Prepared & A Prepared & A Prepared & A Prepared & A Prepared & A Prepared & A	Result Analyzed: 04/2' 7.43 Analyzed: 04/2 Analyzed: 04/2 1230 Analyzed: 04/2 2740	7/17 101 7/17 8/17 8/17 8/17 8/17 1/17 1/17 103	Limits 98.8-101 96-102	2	Limit 3.1	Quaiif

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# Certificate of Analysis

FINAL REPORT

(Continued)

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

			Spike	Source		%REC		RPD	
Result	MRL	Units	Level	Result	%REC	Limits	RPD	Lîmit	Qualifier
Source: 7D27049-01			Prepared & A	nalyzed: 05/0	1/17				
402	2.0	umhos/cm		403			0.2	5	
REFfanse son - 1. fabrul 1. FREEKEDERE ER ER Brodelinge officiele where fo	NACTOR FLOCTROMOLOGY		adad baa baar too ay too ga gaaga / //	event blaker with house -	er a stadiocht Heit Mittigtige (88	ildionardikisi (2204 1220)	s #Senocason control (1946.75)	GGuilden of an and a second	N.: PRESSANCE AND ADDRESS AND ADDRE
			Spike	Source		%REC		RPD	
Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		Pr	epared: 04/27/'	7 Analyzed:	05/14/17				
ND	0.50	mg/l							
		Pr	epared: 04/27/1	7 Analyzed:	05/14/17				
48.7	0.50	mg/l	50.0		97	85-115			
Source: 7D27049-01		Pr	epared: 04/27/'	7 Analyzed:	05/14/17				
87.4	0.50	mg/l	50.0	37.5	100	70-130			
Source: 7D27049-01		Pr	epared: 04/27/	7 Analyzed:	05/14/17				
87.0	0.50	mg/l	50.0	37.5	99	70-130	0.4	30	
	Source: 7D27049-01 402 Result ND 48.7 Source: 7D27049-01 87.4 Source: 7D27049-01	Source: 7D27049-01         2.0           402         2.0           Result         MRL           ND         0.50           48.7         0.50           Source: 7D27049-01         87.4           Source: 7D27049-01         5.50	Source: 7D27049-01         2.0         umhos/cm           402         2.0         umhos/cm           Result         MRL         Units           ND         0.50         mg/l           48.7         0.50         mg/l           Source: 7D27049-01         Pr           87.4         0.50         mg/l	Result         MRL         Units         Level           Source: 7D27049-01 402         2.0         Prepared & A           402         2.0         umhos/cm         Prepared & A           Result         MRL         Units         Spike           ND         0.50         mg/l         Prepared: 04/27/1           48.7         0.50         mg/l         50.0           Source: 7D27049-01 87.4         0.50         mg/l         50.0           Source: 7D27049-01 87.4         0.50         mg/l         50.0	ResultMRLUnitsLevelResultSource: 7D27049-01 4022.0umhos/cmPrepared & Analyzed: 05/0 4034032.0umhos/cm403ResultMRLUnitsSpike LevelSource ResultND0.50mg/lPrepared: 04/27/17 50.0Analyzed: 048.70.50mg/lPrepared: 04/27/17 50.0Analyzed: 0Source: 7D27049-01 87.40.50mg/lSource: 7D27049-01 50.0Prepared: 04/27/17 37.5Source: 7D27049-01Prepared: 04/27/17 50.0Analyzed: 0	Result         MRL         Units         Level         Result         %REC           Source: 7D27049-01 402         2.0         Prepared & Analyzed: 05/01/17 403         403         403           MRL         Units         Spike Level         Source Result         MRL         %REC           MRL         Units         Prepared: 04/27/17         Analyzed: 05/14/17           ND         0.50         mg/l         Prepared: 04/27/17         Analyzed: 05/14/17           48.7         0.50         mg/l         50.0         97           Source: 7D27049-01 87.4         0.50         mg/l         50.0         37.5         100           Source: 7D27049-01         0.50         mg/l         50.0         37.5         100           Source: 7D27049-01         Prepared: 04/27/17         Analyzed: 05/14/17	ResultMRLUnitsLevelResult%RECLimitsSource: 7D27049-01 4022.0umhos/cmYrepared & Analyzed: 05/01/17 403403%RECResultMRLUnitsSpike LevelSource Result%REC Kesult%REC LimitsND0.50mg/lPrepared: 04/27/17 Source: 7D27049-01 87.40.50mg/lSource: 05/14/17 9785-115Source: 7D27049-01 87.40.50mg/lPrepared: 04/27/17 Source: 7D27049-01 50.037.510070-130Source: 7D27049-01 87.40.50mg/lSource: 04/27/17 50.0Analyzed: 05/14/17 37.570-130	ResultMRLUnitsLevelResult%RECLimitsRPDSource: 7D27049-01 4022.0umhos/cm4030.2ResultMRLUnitsSpike LevelSource Result%REC KECL%REC Limits%REC Limits%REC LimitsND0.50mg/lPrepared: 04/27/17 Source: 7D27049-01 87.40.50mg/lSource: 05/14/17 Source: 7D27049-0185-115Source: 7D27049-01 Source: 7D27049-010.50mg/lPrepared: 04/27/17 Source: 04/27/17 Source: 7D27049-01970-130Source: 7D27049-01 Source: 7D27049-010.50mg/lPrepared: 04/27/17 Source: 04/27/17 Analyzed: 05/14/1770-130	ResultMRLUnitsLevelResult%RECLimitsRPDLimitSource: 7D27049-01 4022.0umhos/cm4030.25Result2.0umhos/cm403%REC%RECRPDFPDResultMRLUnitsSpike LevelSource Result%REC%RECRPDRPDND0.50mg/lPrepared: 04/27/17Analyzed: 05/14/175ND0.50mg/l50.09785-115Source: 7D27049-01 87.40.50mg/l50.037.510070-130Source: 7D27049-01 87.40.50mg/l50.037.510070-130

## Notes and Definitions

# Certificate of Analysis

FINAL REPORT

item	Definition
97, 111	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dif	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL.	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance. An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB) All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

**Reviewed by:** 

pananguyen

Hai Van Nguyen Senior Project Manager







DoD-ELAP #L2457 • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 • NELAP-CA #04229CA • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

	PINK - For Client		WHITE & CANARY - For Laboratory	DISTRIBUTION:			
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Preserved at Lab $(Y \setminus N   SO = Soil Waste Solid Waste OL = Oil OL = Oil OT = Other Matrix$	2	PRINT NAME	SIGNATURE		PHIN I NAME	Ϋ́Υ.	אומועא ו טואב
Received On Ice (Y ) M DW = Drinking Water Preserved Evidence Seals Present Y M RW = Rain Water Evidence Seals Present Y M RW = Rain Water Container Attacked Y DW = Ground Water		PRINT NAME	SIGNATURE	· .	PRINT NAME	1124	SIGNATURE
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# **Certificate of Analysis**

FINAL REPORT

Work Orders:	7J12073	Report Date:	10/25/2017
		Received Date:	10/12/2017
Project:	Coolwater	Turnaround Time:	Normal
rioject.		Phones:	(626) 422-0523
		Fax:	(626) 913-5476
Attn:	Mr. Pat Hamilton	P.O. #:	
Client:	Hamilton Geotechnical 2715 Altamira Circle West Covina, CA 91792	Billing Code:	

Dear Mr. Pat Hamilton,

-

Enclosed are the results of analyses for samples received 10/12/17 with the Chain-of-Custody document. The samples were received in good condition, at 2.6 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results							
Sample: C					Sampl	ed: 10/12/17 8:10 b	y P. Hamilton
7J12073-01 (Water)							
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W7J1242	Instr: ICP03		Prepar	<b>ed:</b> 10/20	/17 16:51	Analyst: JCK
Sodium, Total		- 39	0.50	mg/l	1	10/24/17 12:18	
Method: EPA 300.0	Batch ID: W7J0758	Instr: LC12		Prepar	<b>ed:</b> 10/13	/17 07:55	Analyst: jan
Chloride, Total		- 51	0.50	mg/l	1	10/13/17 14:40	
Sulfate as SO4		56	0.50	mg/l	1	10/13/17 14:40	
Method: SM 2510B	Batch ID: W7J1077	Instr: AA02		Prepar	<b>ed:</b> 10/18	/17 13:44	Analyst: stg
Specific Conductance (EC)		520	2.0	umhos/cm	1	10/18/17 15:32	
Method: SM 2540C	Batch ID: W7J0997	Instr: Inst		Prepar	<b>ed:</b> 10/17,	/17 15:53	Analyst: kvm
Total Dissolved Solids		300	10	mg/l	1	10/18/17 14:27	
Method: SM 4500H+-B	Batch ID: W7J0754	Instr: AA02		Prepar	<b>ed:</b> 10/12,	/17 19:43	Analyst: stg
рН		7.35	0.10	Units	1	10/12/17 23:21	*



### Sample Results

FINAL REPORT

#### (Continued)

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Sample: 13			Sampl	ed: 10/12/17 8:40 b	y P. Hamilton
7J12073-02 (Water)					
Analyte	Result	MRL U	nits Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W7J1242 Instr: I	CP03	Prepared: 10/20/	/17 16:51	Analyst: JCK
Sodium, Total		0.50 m	ng/l 1	10/24/17 12:21	
Method: EPA 300.0	Batch ID: W7J0758 Instr: L	.C12	Prepared: 10/13/	/17 07:55	Analyst: jan
Chloride, Total	70	1.0 m	ng/l 2	10/13/17 14:40	
Sulfate as SO4		1.0 m	ng/l 2	10/13/17 14:40	
Method: SM 2510B	Batch ID: W7J1077 Instr: A	A02	Prepared: 10/18/	/17 13:44	Analyst: stg
Specific Conductance (EC)	920	2.0 umh	os/cm 1	10/18/17 15:32	
Method: SM 2540C	Batch ID: W7J0997 Instr: In	nst	Prepared: 10/17/	/17 15:53	Analyst: kvm
Total Dissolved Solids	550	10 m	ng/l 1	10/18/17 14:27	
Method: SM 4500H+-B	Batch ID: W7J0754 Instr: A	A02	Prepared: 10/12/	/17 19:43	Analyst: stg
рН	7.74	0.10 Ui	nits 1	10/12/17 23:21	*
7J12073-03 (Water)	Result	MRI U	nits Dil	Analyzed	Qualifier
Analyte	Result	MRL U	nits Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W7J1137 Instr: I		Prepared: 10/19/		Analyst: JCK
Sodium, Total	63	0.50 m	ng/l 1	10/20/17 18:30	
Method: EPA 300.0	Batch ID: W7J0758 Instr: L	.C12	Prepared: 10/13/	/17 07:55	Analyst: jan
Chloride, Total	68	1.0 m	ng/l 2	10/13/17 14:40	
Sulfate as SO4	72	1.0 m	ng/l 2	10/13/17 14:40	
Method: SM 2510B	Batch ID: W7J1077 Instr: A	A02	Prepared: 10/18/	/17 13:44	Analyst: stg
Specific Conductance (EC)	630	2.0 umh	os/cm 1	10/18/17 15:32	
Method: SM 2540C	Batch ID: W7J0997 Instr: In	nst	Prepared: 10/17/	/17 15:53	Analyst: kvm
Total Dissolved Solids	350	10 m	ng/l 1	10/18/17 14:27	
Method: SM 4500H+-B	Batch ID: W7J0754 Instr: A	A02	Prepared: 10/12/	/17 19:43	Analyst: stg
рН	8.09	0.10 Ui	nits 1	10/12/17 23:21	*
Sample: B 7J12073-04 (Water)			Sampl	ed: 10/12/17 9:30 b	y P. Hamilton
Analyte	Result	MRL U	nits Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W7J1137 Instr: 10		Prepared: 10/19/		Analyst: JCK
Sodium, Total	100		ng/l 1	10/20/17 18:33	Junior
Method: EPA 300.0	Batch ID: W710758 Instr:	C12	<b>Prenared:</b> 10/13/	/17 07:55	Analyst: ian

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Method: EPA 300.0	Batch ID: W7J0758	Instr: LC12		Prepar	<b>ed:</b> 10/13/	17 07:55	Analyst: jan
Chloride, Total		84	1.0	mg/l	2	10/13/17 14:40	
Sulfate as SO4		110	1.0	mg/l	2	10/13/17 14:40	
Method: SM 2510B	Batch ID: W7J1077	Instr: AA02		Prepar	<b>ed:</b> 10/18/	17 13:44	Analyst: stg
Specific Conductance (EC)		1000	2.0	umhos/cm	1	10/18/17 15:32	
Method: SM 2540C	Batch ID: W7J0997	Instr: Inst		Prepar	ed: 10/17/	17 15:53	Analyst: kvm
Total Dissolved Solids		580	10	mg/l	1	10/18/17 14:27	
Method: SM 4500H+-B	Batch ID: W7J0754	Instr: AA02		Prepar	<b>ed:</b> 10/12/	17 19:43	Analyst: stg
рН		7.87	0.10	Units	1	10/12/17 23:21	*



## Sample Results

# **Certificate of Analysis**

FINAL REPORT

#### (Continued)

Sample: MW2					Sampled	: 10/12/17 10:05 b	y P. Hamilton
7J12073-05 (Water)							
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7 Sodium, Total	Batch ID: W7J1137	Instr: ICP03	0.50	Prepar mg/l	r <b>ed:</b> 10/19/1 <sup>-</sup> 1	7 10:57 10/20/17 18:35	Analyst: JCK
Method: EPA 300.0 Chloride, Total	Batch ID: W7J0758	Instr: LC12	1.0	<b>Prepar</b> mg/l	ed: 10/13/1 2	7 07:55 10/13/17 14:40	Analyst: jan
Sulfate as SO4		- 120	1.0	mg/l	2	10/13/17 14:40	
Method: SM 2510B Specific Conductance (EC)	Batch ID: W7J1077	Instr: AA02 1000	2.0	Prepar umhos/cm	r <b>ed:</b> 10/18/1 <sup>*</sup> 1	7 13:44 10/18/17 15:32	Analyst: stg
Method: SM 2540C	Batch ID: W7J0997	Instr: Inst		Prepar	ed: 10/17/1	7 15:53	Analyst: kvm
Total Dissolved Solids		600	10	mg/l	1	10/18/17 14:27	
Method: SM 4500H+-B pH	Batch ID: W7J0754	Instr: AA02	0.10	Prepar Units	ed: 10/12/1 1	7 19:43 10/12/17 23:21	Analyst: stg
Sample: DUP 7J12073-06 (Water)					Sampled	d: 10/12/17 9:40 b	y P. Hamilton
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W7J1137	Instr: ICP03		Prepar	ed: 10/19/1	7 10:57	Analyst: JCK
Sodium, Total		- 98	0.50	mg/l	1	10/20/17 18:38	
Method: EPA 300.0	Batch ID: W7J0758	Instr: LC12		Prepar	ed: 10/13/1	7 07:55	Analyst: jan
Chloride, Total		85	1.0	mg/l	2	10/13/17 14:40	
Sulfate as SO4		- 110	1.0	mg/l	2	10/13/17 14:40	
Method: SM 2510B	Batch ID: W7J1077	Instr: AA02		Prepar	ed: 10/18/1	7 13:44	Analyst: stg
Method: SM 2510B Specific Conductance (EC)	Batch ID: W7J1077	Instr: AA02 1000	2.0	Prepar umhos/cm	r <b>ed:</b> 10/18/1 1	7 13:44 10/18/17 15:32	Analyst: stg
	Batch ID: W7J1077 Batch ID: W7J0997		2.0	umhos/cm		10/18/17 15:32	Analyst: stg Analyst: kvm
Specific Conductance (EC)		1000	2.0	umhos/cm	1	10/18/17 15:32	
Specific Conductance (EC) Method: SM 2540C		1000 Instr: Inst		umhos/cm Prepar mg/l	1 r <b>ed:</b> 10/17/1	10/18/17 15:32 7 15:53 10/18/17 14:27	
Specific Conductance (EC) Method: SM 2540C Total Dissolved Solids	Batch ID: W7J0997	1000 Instr: Inst - 580		umhos/cm Prepar mg/l	1 r <b>ed:</b> 10/17/1 <sup>-</sup> 1	10/18/17 15:32 7 15:53 10/18/17 14:27	Analyst: kvm
Specific Conductance (EC) Method: SM 2540C Total Dissolved Solids Method: SM 4500H+-B	Batch ID: W7J0997	1000 Instr: Inst 580 Instr: AA02	10	umhos/cm Prepar mg/l Prepar	1 ed: 10/17/1 <sup>-</sup> 1 ed: 10/12/1 <sup>-</sup> 1	10/18/17 15:32 7 15:53 10/18/17 14:27 7 19:43	Analyst: kvm Analyst: stg *
Specific Conductance (EC)         Method: SM 2540C         Total Dissolved Solids         Method: SM 4500H+-B         pH         Sample:       MW1	Batch ID: W7J0997	1000 Instr: Inst 580 Instr: AA02	10	umhos/cm Prepar mg/l Prepar	1 ed: 10/17/1 <sup>-</sup> 1 ed: 10/12/1 <sup>-</sup> 1	10/18/17 15:32 7 15:53 10/18/17 14:27 7 19:43 10/12/17 23:21	Analyst: kvm Analyst: stg *
Specific Conductance (EC) Method: SM 2540C Total Dissolved Solids Method: SM 4500H+-B pH Sample: MW1 7J12073-07 (Water) Analyte Method: EPA 200.7	Batch ID: W7J0997	1000 Instr: Inst 580 Instr: AA02 7.88 Result Instr: ICP03	10 0.10 MRL	umhos/cm Prepar mg/l Prepar Units Units Prepar	1 ed: 10/17/1' 1 ed: 10/12/1' 1 Sampled	10/18/17 15:32 7 15:53 10/18/17 14:27 7 19:43 10/12/17 23:21 : 10/12/17 10:20 b Analyzed 7 10:57	Analyst: kvm Analyst: stg * y P. Hamilton
Specific Conductance (EC) Method: SM 2540C Total Dissolved Solids Method: SM 4500H+-B pH Sample: MW1 7J12073-07 (Water) Analyte	Batch ID: W7J0997 Batch ID: W7J0754	1000 Instr: Inst 580 Instr: AA02 7.88 Result	10 0.10	umhos/cm Prepar mg/l Prepar Units Units	1 ed: 10/17/1' 1 ed: 10/12/1' 1 Sampled Dil	10/18/17 15:32 7 15:53 10/18/17 14:27 7 19:43 10/12/17 23:21 : 10/12/17 10:20 b Analyzed	Analyst: kvm Analyst: stg * y P. Hamilton Qualifier
Specific Conductance (EC)         Method: SM 2540C         Total Dissolved Solids         Method: SM 4500H+-B         pH         Sample:       MW1         7J12073-07 (Water)         Analyte         Method: EPA 200.7         Sodium, Total         Method: EPA 300.0	Batch ID: W7J0997 Batch ID: W7J0754	1000 Instr: Inst 580 Instr: AA02 7.88 Result Instr: ICP03 59 Instr: LC12	10 0.10 MRL 0.50	umhos/cm Prepar mg/l Prepar Units Units Units Prepar mg/l Prepar	1 ed: 10/17/1' 1 ed: 10/12/1' 1 Sampled Dil ed: 10/19/1' 1 ed: 10/13/1'	10/18/17 15:32 7 15:53 10/18/17 14:27 7 19:43 10/12/17 23:21 : 10/12/17 10:20 b Analyzed 7 10:57 10/20/17 18:41 7 07:55	Analyst: kvm Analyst: stg * y P. Hamilton Qualifier
Specific Conductance (EC) Method: SM 2540C Total Dissolved Solids Method: SM 4500H+-B pH Sample: MW1 7J12073-07 (Water) Analyte Method: EPA 200.7 Sodium, Total Method: EPA 300.0 Chloride, Total	Batch ID: W7J0997 Batch ID: W7J0754 Batch ID: W7J1137	1000 Instr: Inst 580 Instr: AA02 7.88 Instr: ICP03 Result Instr: ICP03 59 Instr: LC12 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	10 0.10 MRL 0.50	umhos/cm Prepar mg/l Prepar Units Units Units Prepar mg/l	1 ed: 10/17/1' 1 ed: 10/12/1' 1 Sampled Dil ed: 10/19/1' 1 ed: 10/13/1' 2	10/18/17 15:32 7 15:53 10/18/17 14:27 7 19:43 10/12/17 23:21 : 10/12/17 10:20 b Analyzed 7 10:57 10/20/17 18:41 7 07:55 10/13/17 14:40	Analyst: kvm Analyst: stg * y P. Hamilton Qualifier Analyst: JCK
Specific Conductance (EC)         Method: SM 2540C         Total Dissolved Solids         Method: SM 4500H+-B         pH         Sample:       MW1         7J12073-07 (Water)         Analyte         Method: EPA 200.7         Sodium, Total         Method: EPA 300.0	Batch ID: W7J0997 Batch ID: W7J0754 Batch ID: W7J1137	1000 Instr: Inst 580 Instr: AA02 7.88 Result Instr: ICP03 59 Instr: LC12	10 0.10 MRL 0.50	umhos/cm Prepar mg/l Prepar Units Units Units Prepar mg/l Prepar	1 ed: 10/17/1' 1 ed: 10/12/1' 1 Sampled Dil ed: 10/19/1' 1 ed: 10/13/1'	10/18/17 15:32 7 15:53 10/18/17 14:27 7 19:43 10/12/17 23:21 : 10/12/17 10:20 b Analyzed 7 10:57 10/20/17 18:41 7 07:55	Analyst: kvm Analyst: stg * y P. Hamilton Qualifier Analyst: JCK
Specific Conductance (EC)         Method: SM 2540C         Total Dissolved Solids         Method: SM 4500H+-B         pH         Sample:       MW1         7J12073-07 (Water)         Analyte         Method: EPA 200.7         Sodium, Total         Method: EPA 300.0         Chloride, Total	Batch ID: W7J0997 Batch ID: W7J0754 Batch ID: W7J1137	1000 Instr: Inst 580 Instr: AA02 7.88 Instr: ICP03 Result Instr: ICP03 59 Instr: LC12 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	10 0.10 MRL 0.50	umhos/cm Prepar mg/l Prepar Units Units Units Prepar mg/l mg/l	1 ed: 10/17/1' 1 ed: 10/12/1' 1 Sampled Dil ed: 10/19/1' 1 ed: 10/13/1' 2	10/18/17 15:32 7 15:53 10/18/17 14:27 7 19:43 10/12/17 23:21 : 10/12/17 10:20 b <b>Analyzed</b> 7 10:57 10/20/17 18:41 7 07:55 10/13/17 14:40 10/13/17 14:40	Analyst: kvm Analyst: stg * y P. Hamilton Qualifier Analyst: JCK

Analyte	I	Result	MRL	Units	Dil	Analyzed	Qualifie
Method: EPA 200.7	Batch ID: W7J1137	Instr: ICP03		Prepa	r <b>ed:</b> 10/19/	17 10:57	Analyst: JC
Sodium, Total		- 59	0.50	mg/l	1	10/20/17 18:41	
Method: EPA 300.0	Batch ID: W7J0758	Instr: LC12		Prepa	r <b>ed:</b> 10/13/	17 07:55	Analyst: ja
Chloride, Total		69	1.0	mg/l	2	10/13/17 14:40	
Sulfate as SO4		100	1.0	mg/l	2	10/13/17 14:40	
Method: SM 2510B	Batch ID: W7J1077	Instr: AA02		Prepa	r <b>ed:</b> 10/18/	17 13:44	Analyst: st
Specific Conductance (EC)		780	2.0	umhos/cm	1	10/18/17 15:32	
Method: SM 2540C	Batch ID: W7J0997	Instr: Inst		Prepa	r <b>ed:</b> 10/17/	17 15:53	Analyst: kvi
Total Dissolved Solids		470	10	mg/l	1	10/18/17 14:27	
Method: SM 4500H+-B	Batch ID: W7J0754	Instr: AA02		Prepa	r <b>ed:</b> 10/12/	17 19:43	Analyst: st
рН		7.84	0.10	Units	1	10/12/17 23:21	



PS

Sample:

## Sample Results

# Certificate of Analysis

FINAL REPORT

#### (Continued)

Sampled: 10/12/17 10:40 by P. Hamilton

7J12073-08 (Water)							
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W7J1137	Instr: ICP03		Prepar	<b>ed:</b> 10/19/	17 10:57	Analyst: JCK
Sodium, Total		- 74	0.50	mg/l	1	10/20/17 18:44	
Method: EPA 300.0	Batch ID: W7J0758	Instr: LC12		Prepar	ed: 10/13/	17 07:55	Analyst: jan
Chloride, Total		91	1.0	mg/l	2	10/13/17 14:40	
Sulfate as SO4		- 110	1.0	mg/l	2	10/13/17 14:40	
Method: SM 2510B	Batch ID: W7J1077	Instr: AA02		Prepar	ed: 10/18/	17 13:44	Analyst: stg
Specific Conductance (EC)		920	2.0	umhos/cm	1	10/18/17 15:32	
Method: SM 2540C	Batch ID: W7J0997	Instr: Inst		Prepar	ed: 10/17/	17 15:53	Analyst: kvm
Total Dissolved Solids		- 550	10	mg/l	1	10/18/17 14:27	
Method: SM 4500H+-B	Batch ID: W7J0754	Instr: AA02		Prepar	<b>ed:</b> 10/12/	17 19:43	Analyst: stg
pH		8.01	0.10	Units	1	10/12/17 23:21	*



### **Quality Control Results**

**Certificate of Analysis** 

FINAL REPORT

				Spike	Source		%REC		RPD	
	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifi
tch: W7J0758 - Direct Injection										
Blank (W7J0758-BLK1)				Prepared & Ana	alyzed: 10/13/	/17				
Chloride, Total		0.50	mg/l							
Sulfate as SO4	ND	0.50	mg/l							
LCS (W7J0758-BS1)				Prepared & Ana	alyzed: 10/13/	/17				
Chloride, Total	9.98	0.50	mg/l	10.0		100	90-110			
Sulfate as SO4	10.2	0.50	mg/l	10.0		102	90-110			
Matrix Spike (W7J0758-MS1)	Source: 7J09048-01			Prepared & Ana	alyzed: 10/13/	/17				
Chloride, Total	151	5.0	mg/l	100	48.9	102	76-118			
Sulfate as SO4	216	5.0	mg/l	100	103	114	78-111			MS-0
Matrix Spike (W7J0758-MS2)	Source: 7J09048-02			Prepared & Ana	alvzed: 10/13/	/17				
Chloride, Total	131	5.0	mg/l	100	30.2	101	76-118			
Sulfate as SO4		5.0	mg/l	100	74.0	107	78-111			
		2.0								
Matrix Spike Dup (W7J0758-MSD1) Chloride, Total	Source: 7J09048-01	5.0	ma/l	Prepared & Ana 100	48.9	/ <b>17</b> 101	76-118	0.6	20	
,			mg/l							
Sulfate as SO4	215	5.0	mg/l	100	103	113	78-111	0.6	20	MS-(
Matrix Spike Dup (W7J0758-MSD2)	Source: 7J09048-02			Prepared & Ana	alyzed: 10/13/	/17				
Chloride, Total	131	5.0	mg/l	100	30.2	101	76-118	0.008	20	
Sulfate as SO4	181	5.0	mg/l	100	74.0	107	78-111	0.5	20	
tch: W7J0754 - General Preparation	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualif
LCS (W7J0754-BS1) pH	7.45	0.40	l la ita	Prepared & Ana	alyzed: 10/12/		00.0.404			
pH	7.45	0.10	Units	7.41		101	98.8-101			
Duplicate (W7J0754-DUP1)	Source: 7J12073-02	0.40		Prepared & Ana	=	/17				
pH	7.74	0.10	Units		7.74			0	3.1	
atch: W7J0997 - General Preparation										
Blank (W7J0997-BLK1)			P	repared: 10/17/17	Analyzed: 10	)/18/17				
Total Dissolved Solids	ND	10	mg/l							
LCS (W7J0997-BS1)			P	repared: 10/17/17	Analyzed: 10	)/18/17				
Total Dissolved Solids	796	10	mg/l	824		97	96-102			
Duplicate (W7J0997-DUP1)	Source: 7J13057-01		P	Prepared: 10/17/17	Analyzed: 10	)/18/17				
-	2960	10	mg/l		2950			0.07	10	
Duplicate (W7J0997-DUP2)	Source: 7J16100-07		Р	Prepared: 10/17/17	Analyzed: 10	)/18/17				
-	1080	10	mg/l	· · · · · · · · · · · · · · · · · · ·	1030	,,.		5	10	
atch: W7J1077 - General Preparation										
				D		<b>4</b> 7				
Blank (W7J1077-BLK1) Specific Conductance (EC)	ND	2.0	umhos/cm	Prepared & Ana	alyzed: 10/18/	17				
LCS (W7J1077-BS1)				Prepared & Ana	alvzed: 10/19	/17				
Specific Conductance (EC)	204	2.0	umhos/cm	200		102	95-105			
Duplicate (W711077-DUP1)	Source: 7106002-01			Dronarod & Am	10/10 . hozvle	/17				
Duplicate (W7J1077-DUP1)	Source: 7J06002-01			Prepared & Ana	alyzed: 10/18/	/17				



# **Certificate of Analysis**

FINAL REPORT

### WECK LABORATORIES, INC.

### Quality Control Results

(Continued)

Conventional Chemistry/Physical Parameters b	y APHA/EPA/ASTM Meth	ods (Continu	ued)							
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W7J1077 - General Preparation (Continued)										
Duplicate (W7J1077-DUP1)	Source: 7J06002	-01		Prepared & A	Analyzed: 10/18	8/17				
Specific Conductance (EC)	1100	2.0	umhos/cm		1100			0.5	5	
Metals by EPA 200 Series Methods										
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W7J1137 - EPA 200.2										
Blank (W7J1137-BLK1)			Pr	repared: 10/19/	17 Analyzed: 1	0/20/17				
Sodium, Total	ND	0.50	mg/l							
LCS (W7J1137-BS1)			Pr	repared: 10/19/	17 Analyzed: 1	0/20/17				
Sodium, Total	47.3	0.50	mg/l	50.0		95	85-115			
Matrix Spike (W7J1137-MS1)	Source: 7J12073	-08	Pr	repared: 10/19/	17 Analyzed: 1	0/20/17				
Sodium, Total	118	0.50	mg/l	50.0	74.1	88	70-130			
Matrix Spike Dup (W7J1137-MSD1)	Source: 7J12073	-08	Pr	repared: 10/19/	17 Analyzed: 1	0/20/17				
Sodium, Total		0.50	mg/l	50.0	74.1	96	70-130	3	30	
Batch: W7J1242 - EPA 200.2										
Blank (W7J1242-BLK1)			Pr	repared: 10/20/	17 Analyzed: 1	0/24/17				
Sodium, Total	ND	0.50	mg/l							
LCS (W7J1242-BS1)			Pr	repared: 10/20/	17 Analyzed: 1	0/24/17				
Sodium, Total	46.2	0.50	mg/l	50.2		92	85-115			
Matrix Spike (W7J1242-MS1)	Source: 7J18082	2-01	Pr	repared: 10/20/	17 Analyzed: 1	0/24/17				
Sodium, Total		0.50	mg/l	50.2	117	88	70-130			
Matrix Spike Dup (W7J1242-MSD1)	Source: 7J18082	2-01	Pr	repared: 10/20/	17 Analyzed: 1	0/24/17				
Sodium, Total	163	0.50	mg/l	50.2	117	92	70-130	1	30	



### Notes and Definitions

**FINAL REPORT** 

ltem	Definition
*	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
١R	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance. An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB) All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

**Reviewed by:** 









Valerie Rejuso **Project Manager** 

#### DoD-ELAP #L2457 • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

		aboratories, Inc.	СНА	IN OF CU	STODY	RECORD
14859 East Clark Avenue : Industry : CA 9 Tel 626-336-2139 ♦ Fax 626-336-2634 ♦	1745 www.wecklabs.com	oratory Services - Since 1964	81	20700	11	PageOf
CLIENT NAME: HAMILTON GENTECHNICK ADDRESS: 2715 ALTAMIRA (IR, WEST COVINA CA 9179)	PHONE: (1) (1)	ATER 122-0523		ALYSES REQUEST		Special Handling Same Day Rush 150% 24 Hour Rush 100% 4-5 Day Rush 75% Rush Extraction 50%
WEST COVINA CA 9179	Sampler		205 X	Ň,		10-15 Business Days
ID# DATE TIME (For lab Use Only) SAMPLED SAMPLED	SMPLL	ATION/SITE LOCATION # OF	X X X X			Charges will apply for weekends and holidays Method of Shipment COMMENTS
2/7/18 0740	GW 2Α	2		с С		
0830 0150 0910	β 13	2				· · · · · · · · · · · · · · · · · · ·
0955 1040 1100	MW4 MW2 DVP	2				
/ 1125	1 Ps	2	X case source X			
		EIVED BY		DATE / TIME		
SIGNATURE PRINT NAME	2/7/18 2:44	Januar Januar IATURE		2/2/11/2 1444	SAMPLE CO	re: 1.34 AQ=Aqueous NA= Non Aqueous SL = Sludge
			PRINT NAME		Received On Ice Preserved Evidence Seals Pr Container Attacked	GW = Ground Water
SIGNATURE PRINT NAME		ATURE	PRINT NAME		Preserved at Lab	SO = Soil SW = Solld Waste OL = Oll OT = Other Matrix
PRESCHEDULED RUSH ANALYSES WILL TAKE PR UNSCHEDULED RUSH REQUESTS. CLIENT AGREE CONDITIONS (SEE BACK OF THIS FORM).	STO TERMS AND	TE & CANARY - For Labor		K - For Client		

1



# **Certificate of Analysis**

**FINAL REPORT** 

Work Orders:	8B07091	Report Date:	2/16/2018
		Received Date:	2/7/2018
Project:	Coolwater	Turnaround Time:	Normal
riojeci.		Phones:	(626) 422-0523
		Fax:	(626) 913-5476
Attn:	Mr. Pat Hamilton	P.O. #:	
Client:	Hamilton Geotechnical 2715 Altamira Circle West Covina, CA 91792	Billing Code:	

Dear Mr. Pat Hamilton,

Enclosed are the results of analyses for samples received 2/07/18 with the Chain-of-Custody document. The samples were received in good condition, at 1.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results							
Sample: 2A 8B07091-01 (Water)					Samp	led: 02/07/18 7:40 by l	P. Hamilton
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W8B0667	Instr: ICP03	Prepared:	02/13/18 16:20		Analyst: JCK	
Magnesium, Total		8.83	0.100	mg/l	1	02/15/18 11:56	
Potassium, Total		3.5	0.10	mg/l	1	02/15/18 11:56	
Sodium, Total		70	0.50	mg/l	1	02/15/18 11:56	
Method: EPA 300.0	Batch ID: W8B0351	Instr: LC12	Prepared:	02/08/18 07:53		Analyst: jan	
Chloride, Total		92	0.50	mg/l	1	02/08/18 17:06	
Fluoride, Total		0.37	0.10	mg/l	1	02/08/18 17:06	
Nitrate as N		ND	110	ug/l	1	02/08/18 17:06	
Sulfate as SO4		55	0.50	mg/l	1	02/08/18 17:06	
Method: SM 2510B	Batch ID: W8B0380	Instr: AA02	Prepared:	02/08/18 10:52		Analyst: stg	
Specific Conductance (EC)		550	2.0	umhos/cm	1	02/08/18 12:16	
Method: SM 2540C	Batch ID: W8B0529	Instr: Inst	Prepared:	02/12/18 10:21		Analyst: ymt	
Total Dissolved Solids		290	10	mg/l	1	02/12/18 17:25	
Method: SM 4500H+-B	Batch ID: W8B0342	Instr: AA02	Prepared:	02/07/18 16:28		Analyst: stg	
рН		8.15	0.10	Units	1	02/07/18 18:53	*



С

### Sample Results

#### Sample:

8B07091-02 (Water)

FINAL REPORT

#### (Continued)

Sampled: 02/07/18 8:00 by P. Hamilton

6607091-02 (Water)							
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W8B0667	Instr: ICP03	Prepared: 0	2/13/18 16:20		Analyst: JCK	
Magnesium, Total		6.35	0.100	mg/l	1	02/15/18 11:58	
Potassium, Total		2.3	0.10	mg/l	1	02/15/18 11:58	
Sodium, Total		40	0.50	mg/l	1	02/15/18 11:58	
Method: EPA 300.0	Batch ID: W8B0351	Instr: LC12	Prepared: 0	2/08/18 07:53		Analyst: jan	
Chloride, Total		30	0.50	mg/l	1	02/08/18 14:06	
Fluoride, Total		0.49	0.10	mg/l	1	02/08/18 14:06	
Nitrate as N		1500	110	ug/l	1	02/08/18 14:06	
Sulfate as SO4		42	0.50	mg/l	1	02/08/18 14:06	
Method: SM 2510B	Batch ID: W8B0380	Instr: AA02	Prepared: 0	2/08/18 10:52		Analyst: stg	
Specific Conductance (EC)		400	2.0	umhos/cm	1	02/08/18 12:16	
Method: SM 2540C	Batch ID: W8B0529	Instr: Inst	Prepared: 0	2/12/18 10:21		Analyst: ymt	
Total Dissolved Solids		240	10	mg/l	1	02/12/18 17:25	
Method: SM 4500H+-B	Batch ID: W8B0342	Instr: AA02	Prepared: 0	2/07/18 16:28		Analyst: stg	
рН		7.54	0.10	Units	1	02/07/18 18:53	*
Sample: MW1					Samp	led: 02/07/18 8:30 by P	. Hamilton
8B07091-03 (Water)							

#### MRL Dil Analyzed Analyte Result Units Qualifier Method: EPA 200.7 Batch ID: W8B0667 Instr: ICP03 Prepared: 02/13/18 16:20 Analyst: JCK 0.100 02/15/18 12:01 Magnesium, Total 14.3 mg/l 1 02/15/18 12:01 Potassium, Total 3.6 0.10 mg/l 1 Sodium, Total 65 0.50 mg/l 1 02/15/18 12:01 Method: EPA 300.0 Batch ID: W8B0351 Instr: LC12 Prepared: 02/08/18 07:53 Analyst: jan Chloride, Total 0.50 02/08/18 15:00 75 mg/l 1 Fluoride, Total 0.10 02/08/18 15:00 0.38 mg/l 1 Nitrate as N 1800 110 ug/l 1 02/08/18 15:00 Sulfate as SO4 1.0 2 02/08/18 15:00 100 ma/l Prepared: 02/08/18 10:52 Method: SM 2510B Batch ID: W8B0380 Instr: AA02 Analyst: stg 02/08/18 12:16 Specific Conductance (EC) 2.0 umhos/cm 1 770 Method: SM 2540C Prepared: 02/12/18 10:21 Batch ID: W8B0529 Analyst: ymt Instr: Inst 02/12/18 17:25 **Total Dissolved Solids** 10 1 450 mg/l Method: SM 4500H+-B Batch ID: W8B0342 Prepared: 02/07/18 16:28 Instr: AA02 Analyst: stg 0.10 Units 1 02/07/18 18:53 рΗ 7.60



В

## Sample Results

#### Sample:

8B07091-04 (Water)

FINAL REPORT

#### (Continued)

Sampled: 02/07/18 8:50 by P. Hamilton

Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W8B0667	Instr: ICP03	Prepared:	02/13/18 16:20		Analyst: JCK	
Magnesium, Total		13.2	0.100	mg/l	1	02/15/18 12:04	
Potassium, Total		3.6	0.10	mg/l	1	02/15/18 12:04	
Sodium, Total		100	0.50	mg/l	1	02/15/18 12:04	
Method: EPA 300.0	Batch ID: W8B0351	Instr: LC12	Prepared: 02/08/18 07:53			Analyst: jan	
Chloride, Total		96	0.50	mg/l	1	02/08/18 15:18	
Fluoride, Total		0.38	0.10	mg/l	1	02/08/18 15:18	
Nitrate as N		300	110	ug/l	1	02/08/18 15:18	
Sulfate as SO4		100	1.0	mg/l	2	02/08/18 15:18	
Method: SM 2510B	Batch ID: W8B0380	Instr: AA02	Prepared:	02/08/18 10:52		Analyst: stg	
Specific Conductance (EC)		850	2.0	umhos/cm	1	02/08/18 12:16	
Method: SM 2540C	Batch ID: W8B0529	Instr: Inst	Prepared:	02/12/18 10:21		Analyst: ymt	
Total Dissolved Solids		490	10	mg/l	1	02/12/18 17:25	
Method: SM 4500H+-B	Batch ID: W8B0342	Instr: AA02	Prepared:	02/07/18 16:28		Analyst: stg	
рН		7.97	0.10	Units	1	02/07/18 18:53	
Sample: 13					Samp	led: 02/07/18 9:10 by l	P. Hamiltor
8B07091-05 (Water)							
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W8B0667	Instr: ICP03	Prepared:	02/13/18 16:20		Analyst: JCK	

7						7	
Method: EPA 200.7	Batch ID: W8B0667	Instr: ICP03	Prepared:	02/13/18 16:20		Analyst: JCK	
Magnesium, Total		9.82	0.100	mg/l	1	02/15/18 12:07	
Potassium, Total		3.0	0.10	mg/l	1	02/15/18 12:07	
Sodium, Total		120	0.50	mg/l	1	02/15/18 12:07	
Method: EPA 300.0	Batch ID: W8B0351	Instr: LC12	Prepared: 02/08/18 07:53			Analyst: jan	
Chloride, Total		78	0.50	mg/l	1	02/08/18 15:36	
Fluoride, Total		0.47	0.10	mg/l	1	02/08/18 15:36	
Nitrate as N		5000	110	ug/l	1	02/08/18 15:36	
Method: SM 2510B	Batch ID: W8B0380	Instr: AA02	Prepared:	02/08/18 10:52		Analyst: stg	
Specific Conductance (EC)		900	2.0	umhos/cm	1	02/08/18 12:16	
Method: SM 2540C	Batch ID: W8B0529	Instr: Inst	Prepared:	02/12/18 10:21		Analyst: ymt	
Total Dissolved Solids		550	10	mg/l	1	02/12/18 17:25	
Method: SM 4500H+-B	Batch ID: W8B0342	Instr: AA02	Prepared:	02/07/18 16:28		Analyst: stg	
рН		7.69	0.10	Units	1	02/07/18 18:53	

#### Sample: 13

8B07091-05RE1 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 300.0	Batch ID: W8B0495 Instr: LC12	Prepare	<b>d:</b> 02/10/18 08:53		Analyst: jan	
Sulfate as SO4	99	1.0	mg/l	2	02/10/18 10:00	

Sampled: 02/07/18 9:10 by P. Hamilton



## Sample Results

Sample: MW4

FINAL REPORT

#### (Continued)

Sampled: 02/07/18 9:55 by P. Hamilton

8807091-06 (Water)							
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W8B0667	Instr: ICP03	Prepared:	02/13/18 16:20		Analyst: JCK	
Magnesium, Total		4.24	0.100	mg/l	1	02/15/18 12:10	
Potassium, Total		2.1	0.10	mg/l	1	02/15/18 12:10	
Sodium, Total			0.50	mg/l	1	02/15/18 12:10	
Method: EPA 300.0	Batch ID: W8B0351	Instr: LC12	Prepared:	02/08/18 07:53		Analyst: jan	
Chloride, Total		39	0.50	mg/l	1	02/08/18 15:54	
Fluoride, Total		0.49	0.10	mg/l	1	02/08/18 15:54	
Nitrate as N		1200	110	ug/l	1	02/08/18 15:54	
Sulfate as SO4			0.50	mg/l	1	02/08/18 15:54	
Method: SM 2510B	Batch ID: W8B0380	Instr: AA02	Prepared:	02/08/18 10:52		Analyst: stg	
Specific Conductance (EC)		580	2.0	umhos/cm	1	02/08/18 12:16	
Method: SM 2540C	Batch ID: W8B0529	Instr: Inst	Prepared: 02/12/18 10:21			Analyst: ymt	
Total Dissolved Solids		360	10	mg/l	1	02/12/18 17:25	
Method: SM 4500H+-B	Batch ID: W8B0342	Instr: AA02	Prepared:	02/07/18 16:28		Analyst: stg	
рН		8.18	0.10	Units	1	02/07/18 18:53	*

#### Sample: MW2

8B07091-07 (Water)

Sampled: 02/07/18 10:40 by P. Hamilton

Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W8B0667	Instr: ICP03	Prepared:	02/13/18 16:20		Analyst: JCK	
Magnesium, Total		14.1	0.100	mg/l	1	02/15/18 12:13	
Potassium, Total		3.6	0.10	mg/l	1	02/15/18 12:13	
Sodium, Total		100	0.50	mg/l	1	02/15/18 12:13	
Method: EPA 300.0	Batch ID: W8B0351	Instr: LC12	Prepared:	02/08/18 07:53		Analyst: jan	
Chloride, Total		100	1.0	mg/l	2	02/08/18 16:12	
Fluoride, Total		0.56	0.10	mg/l	1	02/08/18 16:12	
Nitrate as N		2700	110	ug/l	1	02/08/18 16:12	
Sulfate as SO4		120	1.0	mg/l	2	02/08/18 16:12	
Method: SM 2510B	Batch ID: W8B0380	Instr: AA02	Prepared:	02/08/18 10:52		Analyst: stg	
Specific Conductance (EC)		1000	2.0	umhos/cm	1	02/08/18 12:16	
Method: SM 2540C	Batch ID: W8B0529	Instr: Inst	Prepared:	02/12/18 10:21		Analyst: ymt	
Total Dissolved Solids		590	10	mg/l	1	02/12/18 17:25	
Method: SM 4500H+-B	Batch ID: W8B0342	Instr: AA02	Prepared:	02/07/18 16:28		Analyst: stg	
pH		7.81	0.10	Units	1	02/07/18 18:53	*



## Sample Results

Sample: DUP

FINAL REPORT

#### (Continued)

Sampled: 02/07/18 11:00 by P. Hamilton

8B07091-08 (Water)							
Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W8B0667	Instr: ICP03	Prepared:	02/13/18 16:20		Analyst: JCK	
Magnesium, Total		12.8	0.100	mg/l	1	02/15/18 12:16	
Potassium, Total		3.5	0.10	mg/l	1	02/15/18 12:16	
Sodium, Total		99	0.50	mg/l	1	02/15/18 12:16	
Method: EPA 300.0	Batch ID: W8B0351	Instr: LC12	Prepared:	02/08/18 07:53		Analyst: jan	
Chloride, Total		97	0.50	mg/l	1	02/08/18 16:30	
Fluoride, Total		0.41	0.10	mg/l	1	02/08/18 16:30	
Nitrate as N		310	110	ug/l	1	02/08/18 16:30	
Sulfate as SO4		100	1.0	mg/l	2	02/08/18 16:30	
Method: SM 2510B	Batch ID: W8B0380	Instr: AA02	Prepared:	02/08/18 10:52		Analyst: stg	
Specific Conductance (EC)		860	2.0	umhos/cm	1	02/08/18 12:16	
Method: SM 2540C	Batch ID: W8B0529	Instr: Inst	Prepared:	02/12/18 10:21		Analyst: ymt	
Total Dissolved Solids		480	10	mg/l	1	02/12/18 17:25	
Method: SM 4500H+-B	Batch ID: W8B0342	Instr: AA02	Prepared:	02/07/18 16:28		Analyst: stg	
рН		8.01	0.10	Units	1	02/07/18 18:53	*

#### Sample: PS

8B07091-09 (Water)

Sampled: 02/07/18 11:25 by P. Hamilton

Analyte		Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 200.7	Batch ID: W8B0667	Instr: ICP03	Prepared:	02/13/18 16:20		Analyst: JCK	
Magnesium, Total		6.99	0.100	mg/l	1	02/15/18 12:19	
Potassium, Total		2.3	0.10	mg/l	1	02/15/18 12:19	
Sodium, Total			0.50	mg/l	1	02/15/18 12:19	
Method: EPA 300.0	Batch ID: W8B0351	Instr: LC12	Prepared:	02/08/18 07:53		Analyst: jan	
Chloride, Total		42	0.50	mg/l	1	02/08/18 16:48	
Fluoride, Total		0.55	0.10	mg/l	1	02/08/18 16:48	
Nitrate as N		1600	110	ug/l	1	02/08/18 16:48	
Sulfate as SO4		57	0.50	mg/l	1	02/08/18 16:48	
Method: SM 2510B	Batch ID: W8B0380	Instr: AA02	Prepared:	02/08/18 10:52		Analyst: stg	
Specific Conductance (EC)		490	2.0	umhos/cm	1	02/08/18 12:16	
Method: SM 2540C	Batch ID: W8B0529	Instr: Inst	Prepared:	02/12/18 10:21		Analyst: ymt	
Total Dissolved Solids		280	10	mg/l	1	02/12/18 17:25	
Method: SM 4500H+-B	Batch ID: W8B0342	Instr: AA02	Prepared:	02/07/18 16:28		Analyst: stg	
pH		8.06	0.10	Units	1	02/07/18 18:53	*



#### WECK LABORATORIES, INC.

### **Quality Control Results**

# **Certificate of Analysis**

%REC

Limits

90-110

90-110

90-110 90-110

76-118

86-107 84-115

78-111

76-118

86-107 84-115

78-111

76-118

86-107

84-115

78-111

76-118

86-107

84-115

78-111

0.2

0.2

0.3

0.07

0.07

0.3

0

0.07

20

20

20

20

20

20

20

20

**FINAL REPORT** 

Qualifier

**MS-05** 

**MS-05** 

RPD

Limit

RPD

Quui							
Anions by IC, EP	A Method 300.0						
					Spike	Source	
Analyte	Re	sult	MRL	Units	Level	Result	%REC
Batch: W8B0351 - EP	A 300/Dir Inj						
Blank (W8B0351-BL	•				Prepared & Analy	zed: 02/08/1	18
Chloride, Total		ND	0.50	mg/l			
Fluoride, Total		ND	0.10	mg/l			
Nitrate as N		ND	110	ug/l			
Sulfate as SO4		ND	0.50	mg/l			
LCS (W8B0351-BS1)	•				Prepared & Analy	zed: 02/08/1	18
Chloride, Total		9.90	0.50	mg/l	10.0		99
Fluoride, Total		.00	0.10	mg/l	1.02		98
Nitrate as N	1!	960	110	ug/l	2020		97
Sulfate as SO4		0.3	0.50	mg/l	10.0		103
Matrix Spike (W8B0	351-MS1)	Source: 8B05014-01			Prepared & Analy	zed: 02/08/1	18
Chloride, Total	•••••••••••••••••••••••••••••••••••••••	154	5.0	mg/l	100	50.3	104
Fluoride, Total	1	0.5	1.0	mg/l	10.2	0.303	100
Nitrate as N		900	1100	ug/l	20200	1460	101
Sulfate as SO4		193	5.0	mg/l	100	78.4	114
Matrix Spike (W8B0	9351-MS2)	Source: 8B07050-04			Prepared & Analy	zed: 02/08/1	18
Chloride, Total		187	5.0	mg/l	100	81.3	106
Fluoride, Total	1	0.8	1.0	mg/l	10.2	0.640	99
Nitrate as N		000	1100	ug/l	20200	950	99
Sulfate as SO4		187	5.0	mg/l	100	74.9	111
Matrix Spike Dup (V	V8B0351-MSD1)	Source: 8B05014-01			Prepared & Analy	zed: 02/08/1	18
Chloride, Total		154	5.0	mg/l	100	50.3	104
Fluoride, Total		0.5	1.0	mg/l	10.2	0.303	100
Nitrate as N		000	1100	ug/l	20200	1460	101
Sulfate as SO4		193	5.0	mg/l	100	78.4	114
Matrix Spike Dup (V	V8B0351-MSD2)	Source: 8B07050-04			Prepared & Analy	zed: 02/08/1	18
Chloride, Total		187	5.0	mg/l	100	81.3	106
Fluoride, Total		0.8	1.0	mg/l	10.2	0.640	100
Nitrate as N		000	1100	ug/l	20200	950	99
Sulfate as SO4		187	5.0	mg/l	100	74.9	111
Batch: W8B0495 - EP	A 300/Dir Inj						
Blank (W8B0495-BL	K1)				Prepared & Analy	zed: 02/10/1	18
Sulfate as SO4		ND	0.50	mg/l			
LCS (W8B0495-BS1)					Prepared & Analy	zed: 02/10/1	18
Sulfate as SO4		0.6	0.50	mg/l	10.0		105

90-110 Su Source: 8B09014-04 Prepared & Analyzed: 02/10/18 Matrix Spike (W8B0495-MS1) Sulfate as SO4 187 5.0 100 78-111 mg/l 82.3 104 Matrix Spike (W8B0495-MS2) Source: 8B09062-01 Prepared & Analyzed: 02/10/18 Sulfate as SO4 185 5.0 mg/l 100 75.1 109 78-111 Matrix Spike Dup (W8B0495-MSD1) Source: 8B09014-04 Prepared & Analyzed: 02/10/18 Sulfate as SO4 187 5.0 100 82.3 20 104 78-111 0.2 mg/l

8B07091



### WECK LABORATORIES, INC. **Quality Control Results**

# **Certificate of Analysis**

FINAL REPORT

	(Continued)
%REC	RPD

Anions by IC, EPA Method 300.0 (Continued)										
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8B0495 - EPA 300/Dir Inj (Continued)										
Matrix Spike Dup (W8B0495-MSD2)	Source: 8B09062	01		Prepared & /	Analyzed: 02/10/	/18				
Sulfate as SO4	185	5.0	mg/l	100	75.1	110	78-111	0.09	20	
Conventional Chemistry/Physical Parameters by A	PHA/EPA/ASTM Metho	ds								
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8B0342 - General Preparation										
LCS (W8B0342-BS1)				Prepared & A	Analyzed: 02/07/	/18				
pH	7.42	0.10	Units	7.41		100	98.8-101			
Duplicate (W8B0342-DUP1)	Source: 8B05014	01		Prepared &	Analyzed: 02/07/	/18				
pH	7.75	0.10	Units		7.68			0.9	3.1	
Batch: W8B0380 - General Preparation										
Blank (W8B0380-BLK1)				Prepared & /	Analyzed: 02/08/	/18				
Specific Conductance (EC)	ND	2.0	umhos/cm							
LCS (W8B0380-BS1)				Prepared &	Analyzed: 02/08/	/18				
Specific Conductance (EC)	193	2.0	umhos/cm	200		96	95-105			
Duplicate (W8B0380-DUP1)	Source: 8B05014	01		Prepared &	Analyzed: 02/08/	/18				
Specific Conductance (EC)	577	2.0	umhos/cm		570			1	5	
Batch: W8B0529 - General Preparation										
Blank (W8B0529-BLK1)				Prepared & /	Analyzed: 02/12/	/18				
Total Dissolved Solids	ND	10	mg/l							
LCS (W8B0529-BS1)				Prepared & /	Analyzed: 02/12/	/18				
Total Dissolved Solids	809	10	mg/l	824		98	96-102			
Duplicate (W8B0529-DUP1)	Source: 8B07091	07		Prepared &	Analyzed: 02/12/	/18				
Total Dissolved Solids	587	10	mg/l		589			0.3	10	
Duplicate (W8B0529-DUP2)	Source: 8B07104	02		Prepared &	Analyzed: 02/12/	/18				
Total Dissolved Solids	6670	10	mg/l		6680			0.2	10	



Sodium, Total

#### WECK LABORATORIES, INC.

## **Quality Control Results**

# **Certificate of Analysis**

FINAL REPORT

30

2

(Continued)

Qualifier

									``
Metals by EPA 200 Series Methods									
				Spike	Source		%REC		RPD
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit
Batch: W8B0667 - EPA 200.2									
Blank (W8B0667-BLK1)			Р	repared: 02/13/	18 Analyzed: (	02/15/18			
Magnesium, Total	ND	0.100	mg/l						
Potassium, Total	• • • • • ND	0.10	mg/l						
Sodium, Total	ND	0.50	mg/l						
LCS (W8B0667-BS1)			Р	repared: 02/13/	18 Analyzed: (	02/15/18			
Magnesium, Total	51.1	0.100	mg/l	50.0		102	85-115		
Potassium, Total	54.2	0.10	mg/l	50.0		108	85-115		
Sodium, Total	52.0	0.50	mg/l	50.0		104	85-115		
Matrix Spike (W8B0667-MS1)	Source: 8B0709	1-01	Р	repared: 02/13/	18 Analyzed: (	02/15/18			
Magnesium, Total	60.5	0.100	mg/l	50.0	8.83	103	70-130		
Potassium, Total	59.3	0.10	mg/l	50.0	3.48	112	70-130		
Sodium, Total		0.50	mg/l	50.0	70.2	106	70-130		
Matrix Spike Dup (W8B0667-MSD1)	Source: 8B0709	1-01	Р	repared: 02/13/	18 Analyzed: (	02/15/18			
Magnesium, Total	58.7	0.100	mg/l	50.0	8.83	100	70-130	3	30
Potassium, Total	57.8	0.10	mg/l	50.0	3.48	109	70-130	2	30

0.50

mg/l

121

50.0

70.2

101

70-130



### Notes and Definitions

**FINAL REPORT** 

ltem	Definition
*	The recommended holding time for this analysis is only 15 minutes. The sample was analyzed as soon as it was possible but it was received and analyzed past holding time.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance. An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB) All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

**Reviewed by:** 







Valerie Rejuso **Project Manager** 

> DoD-ELAP #L2457 • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • ISO 17025 #L2457.01 • LACSD #10143 • NJ-DEP #CA015

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

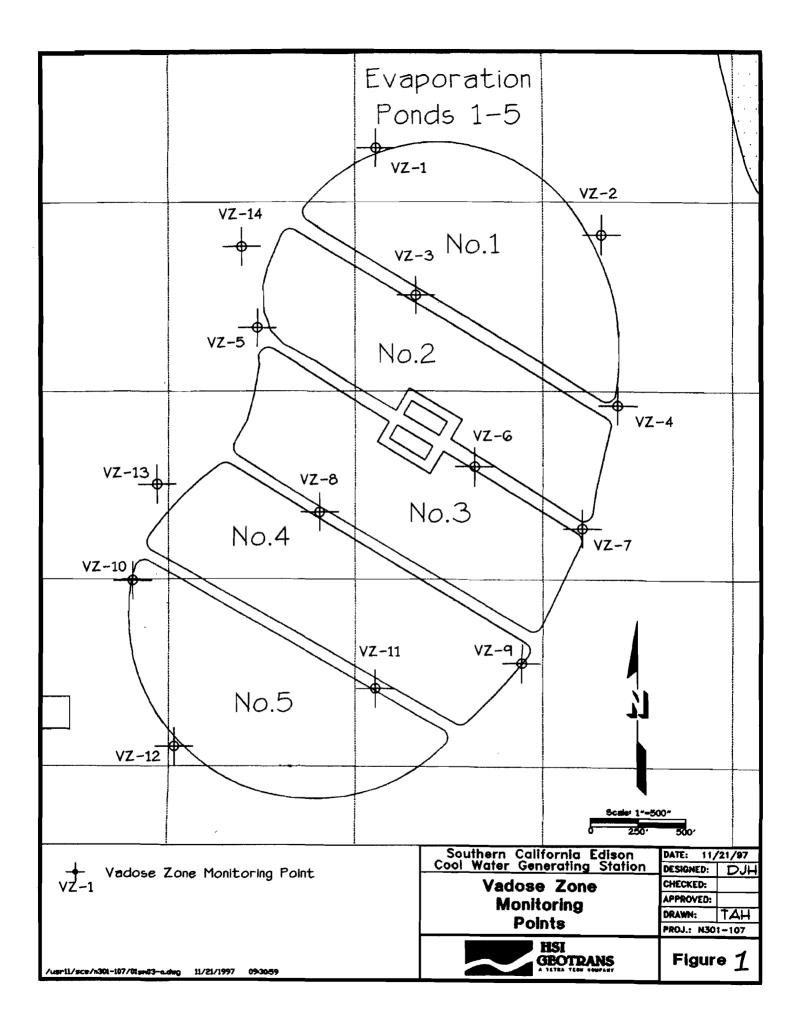
Appendix C: Vadose Zone Monitoring

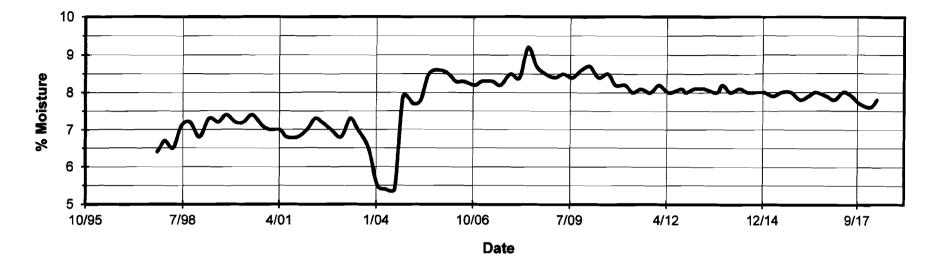
TDR Station ID	Survey Date	% Soil Moisture	Background Soil Moisture	Action Limit from permit	20-year Average % Soil Moisture	
	7/20/2017	7.9				
V1A	10/12/2017	7.7	6.5	10.5	7.7	
VIA	2/7/2018	7.6	0.5	10.5	1.1	
	4/19/2018	7.8				
	7/20/2017	9.6				
V1B	10/12/2017	9.4	TBD (7.4)	TBD (11.4)	9.3	
VID	2/7/2018	9.2	- TBD (7.4)	160 (11.4)	9.5	
	4/19/2018	9.1				
	7/20/2017	5.1				
V2A	10/12/2017	4.8	4.7	8.7	5.7	
V2A	2/7/2018	5.0	- 4.7	0.7	5.7	
	4/19/2018	5.1	_			
	7/20/2017	7.0				
	10/12/2017	7.0	7.4	11.4	7.6	
V2B	2/7/2018	6.7	7.4	11.4	7.0	
	4/19/2018	6.9	_			
	7/20/2017	3.4		7.0		
V3A	10/12/2017	3.7	3.0		3.7	
VSA	2/7/2018	3.5	- 3.0		5.7	
	4/19/2018	3.6	_			
	7/20/2017	0.0				
V3B	10/12/2017	0.0	0.0	4.0	0.0	
VSD	2/7/2018	0.0	- 0.0		0.0	
	4/19/2018	0.0				
	7/20/2017	7.5				
V4A	10/12/2017	7.3	7.5	11 5	77	
V4A	2/7/2018	7.1	7.5	11.5	7.7	
	4/19/2018	7.3				
	7/20/2017	9.6				
V4B	10/12/2017	9.4	0.7	13.7	0.7	
V4D	2/7/2018	9.2	9.7		9.7	
	4/19/2018	9.0				

TDR Station ID	Survey Date	% Soil Moisture	Background Soil Moisture	Action Limit from permit	20-year Average % Soil Moisture	
	7/20/2017	5.2				
V5A	10/12/2017	5.6	5.6	9.6	5.2	
VJA	2/7/2018	5.3	5.0	9.0	5.2	
	4/19/2018	5.2				
	7/20/2017	8.5				
V5B	10/12/2017	8.3	5.2	9.2	7.4	
VOD	2/7/2018	8.1	- 5.2	9.2	7.4	
	4/19/2018	8.4				
	7/20/2017	6.5				
V6A	10/12/2017	6.7	6.9	10.9	6.7	
VOA	2/7/2018	6.4	0.9	10.9	0.7	
	4/19/2018	6.2	_			
	7/20/2017	7.5		10.7		
	10/12/2017	7.3	6.7		7.4	
V6B	2/7/2018	7.5	- 0.7	10.7	7.4	
	4/19/2018	7.2	_			
	7/20/2017	4.2				
V7A	10/12/2017	4.4	4.0	8.0	4.3	
VIA	2/7/2018	4.1	- 4.0		4.3	
	4/19/2018	4.2	_			
	7/20/2017	2.5				
) (70	10/12/2017	2.8		4.7	0.0	
V7B	2/7/2018	2.6	- 0.7		2.0	
	4/19/2018	2.7	_			
	7/20/2017	7.3				
	10/12/2017	7.6	7.0	11.0	7 5	
V8A	2/7/2018	7.4	- 7.0	11.0	7.5	
	4/19/2018	7.5				
	7/20/2017	9.5				
1/05	10/12/2017	9.7	407		407	
V8B	2/7/2018	9.9	- 12.7	16.7	10.7	
	4/19/2018	9.4	-			

TDR Station ID	Survey Date	% Soil Moisture	Background Soil Moisture	Action Limit from permit	20-year Average % Soil Moisture	
	7/20/2017	12.5				
V9A	10/12/2017	12.2	- 11.3	15.3	11.9	
V 3A	2/7/2018	12.0	11.5	10.0	11.5	
	4/19/2018	12.2				
	7/20/2017	7.2				
V9B	10/12/2017	7.4	7.0	11.0	7.4	
V 9B	2/7/2018	7.4	7.0	11.0	7.4	
	4/19/2018	7.3				
	7/20/2017	7.1				
V10A	10/12/2017	6.9	5.9	9.9	7.1	
VIUA	2/7/2018	6.8	5.9	9.9	7.1	
	4/19/2018	6.6	-			
	7/20/2017	3.0		5.3		
V(10 P	10/12/2017	2.8	- 1.3		2.6	
V10.B	2/7/2018	2.6	1.3	5.5	2.0	
	4/19/2018	2.8				
	7/20/2017	10.7				
V11A	10/12/2017	10.4		TBD (12.8)	10.2	
VIIA	2/7/2018	10.2	- TBD (8.8)		10.2	
	4/19/2018	10.3	-			
	7/20/2017	7.0				
V11B	10/12/2017	6.8	6.0	10.0	6.4	
VIID	2/7/2018	6.6	- 0.0		0.4	
	4/19/2018	6.7	-			
	7/20/2017	3.8				
1/104	10/12/2017	3.6	20	6.2	25	
V12A	2/7/2018	3.7	2.2	6.2	3.5	
	4/19/2018	3.5				
	7/20/2017	5.0				
1/400	10/12/2017	5.3		9.3	4.0	
V12B	2/7/2018	5.1	- 5.3		4.0	
	4/19/2018	5.0	1			

TDR Station ID	Survey Date	% Soil Moisture	Background Soil Moisture	Action Limit from permit	20-year Average % Soil Moisture	
	7/20/2017	6.2				
V13A	10/12/2017	6.4	5.0	9.0	5.8	
VISA	2/7/2018	6.5	5.0	9.0	5.0	
	4/19/2018	6.3				
	7/20/2017	5.1		4.0		
V13B	10/12/2017	5.3	0.0		4.1	
VISB	2/7/2018	5.4	0.0		4.1	
	4/19/2018	5.2				
	7/20/2017	5.5				
V14A	10/12/2017	5.6	7.3	11.3	5.8	
V14A	2/7/2018	5.3	1.3		0.0	
	4/19/2018	5.4	-			
	7/20/2017	3.4				
V14B	10/12/2017	3.1	4.5	8.5	3.2	
V 14D	2/7/2018	3.3	4.0	0.0	3.2	
	4/19/2018	3.0				





Vadose Zone Monitoring Station 1A

Vadose Zone Monitoring Station 1B

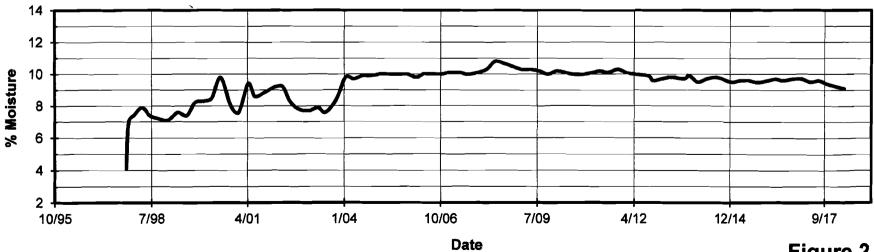
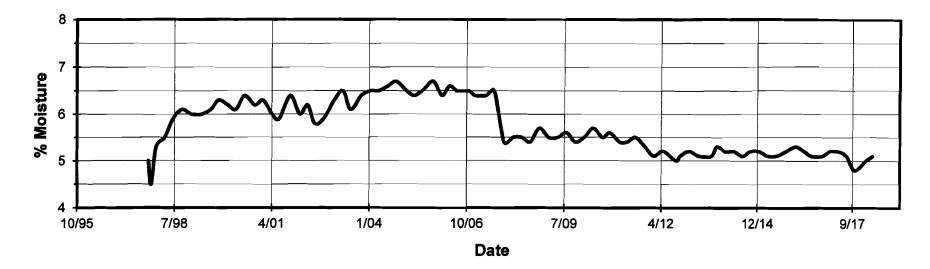
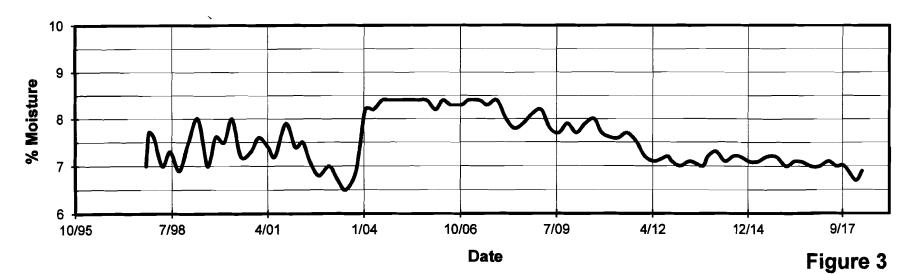


Figure 2

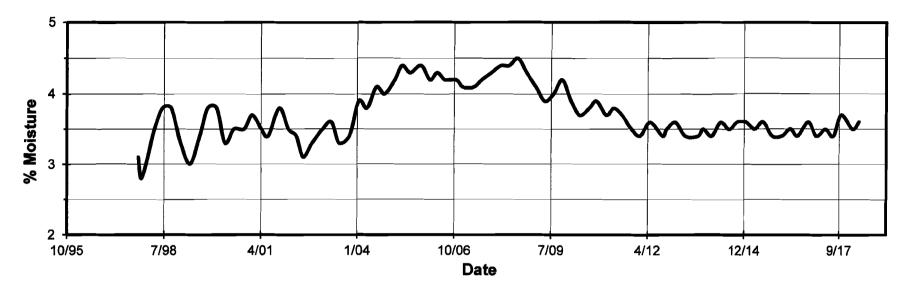
## Vadose Zone Monitoring Station 2A



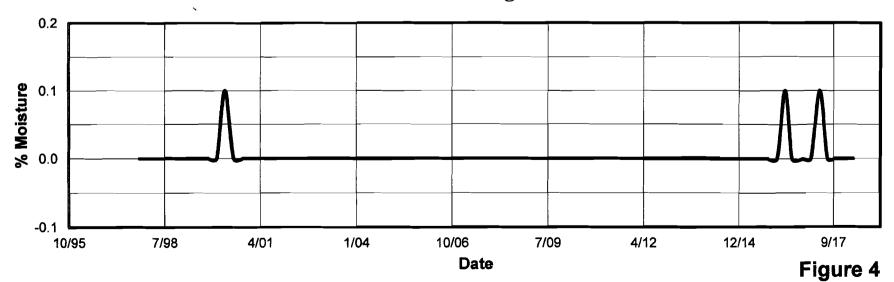
Vadose Zone Monitoring Station 2B



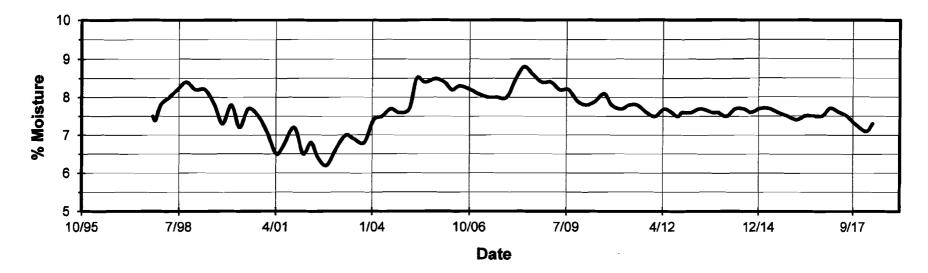




Vadose Zone Monitoring Station 3B







Vadose Zone Monitoring Station 4B

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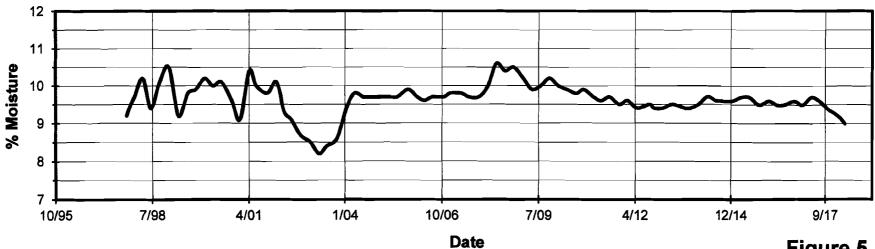
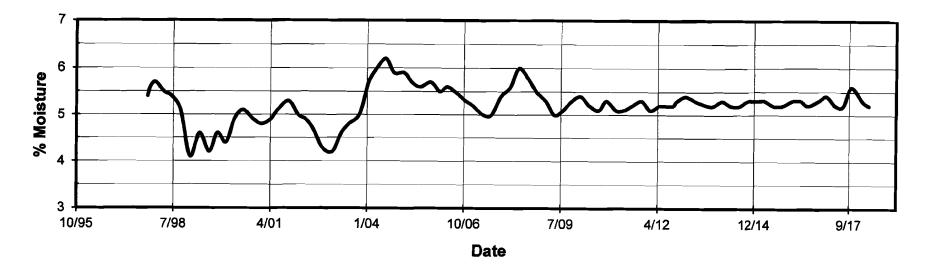
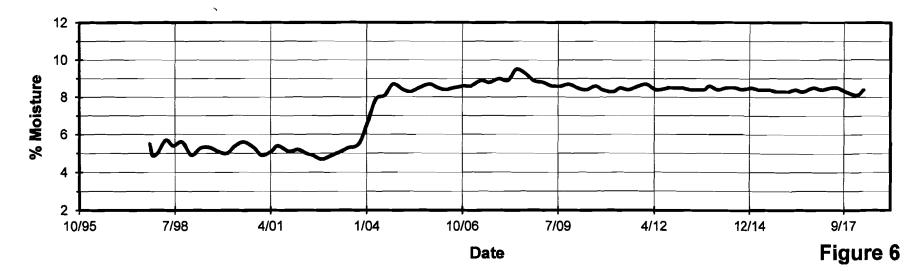


Figure 5

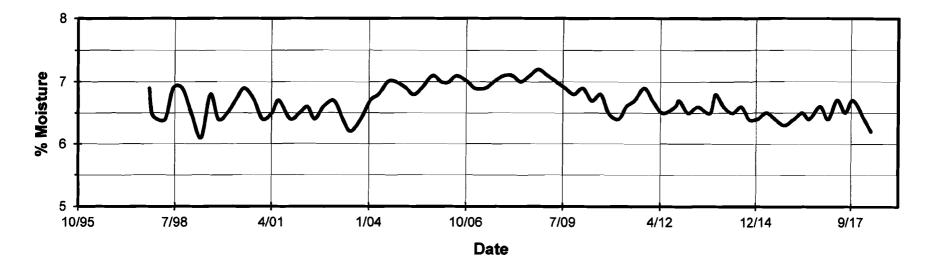




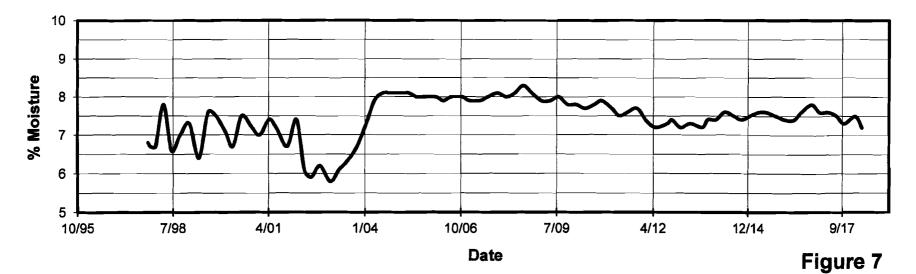
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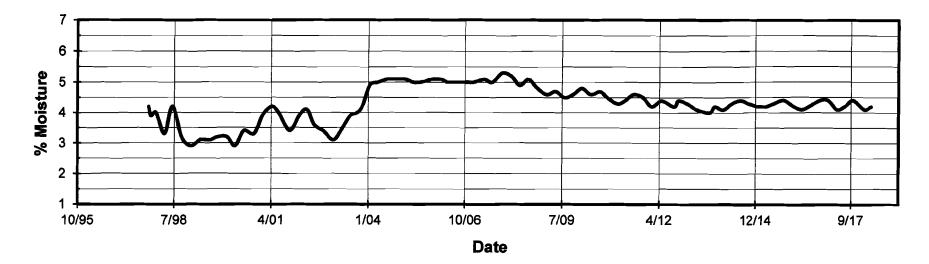
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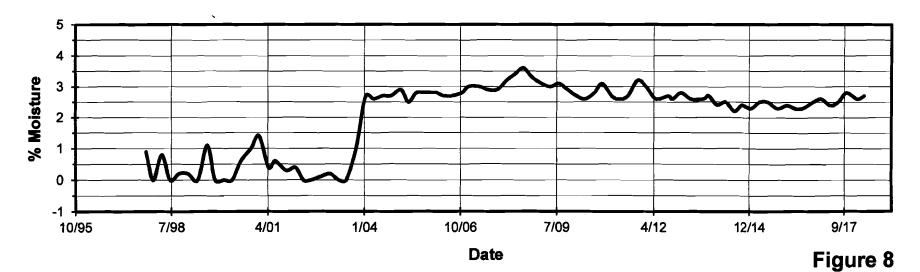
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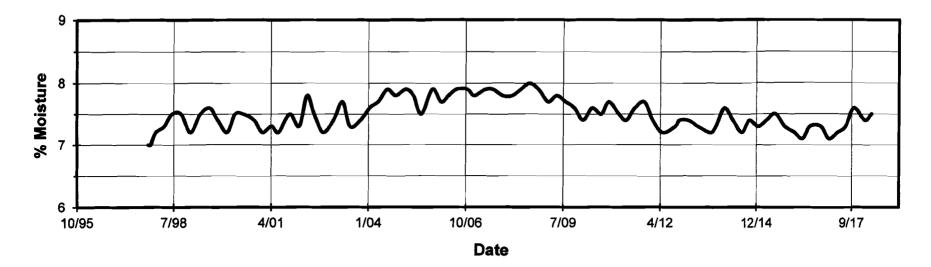




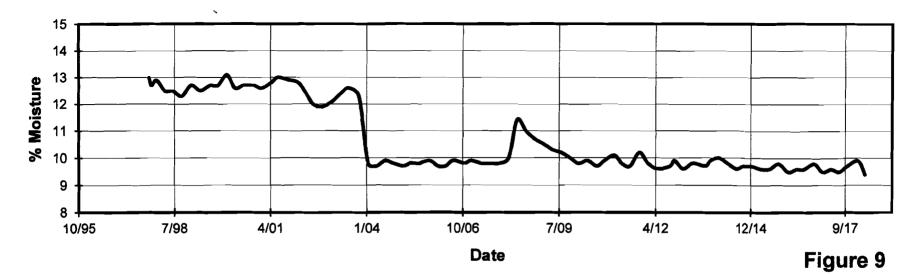
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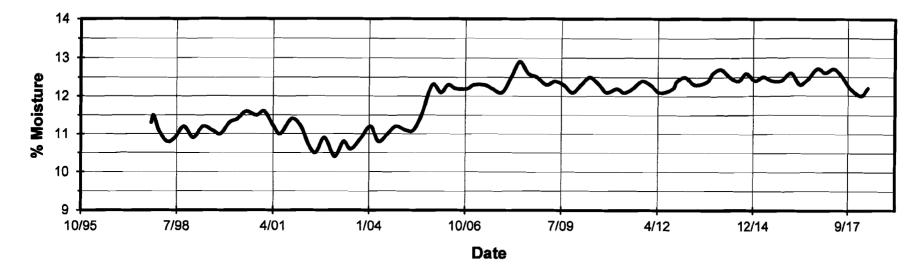


Vadose Zone Monitoring Station 8B



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Vadose Zone Monitoring Station 9B

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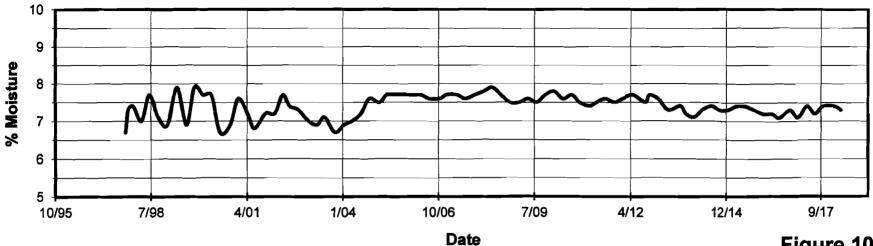
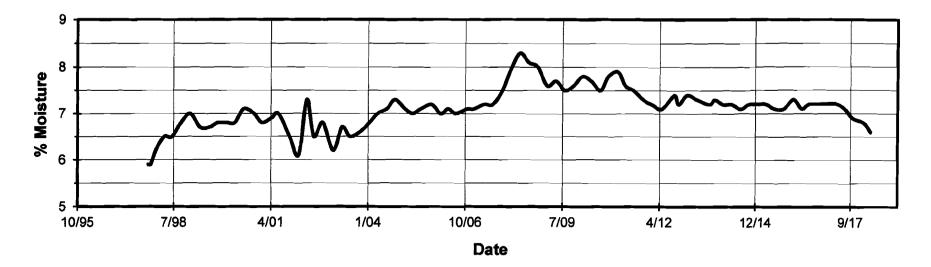
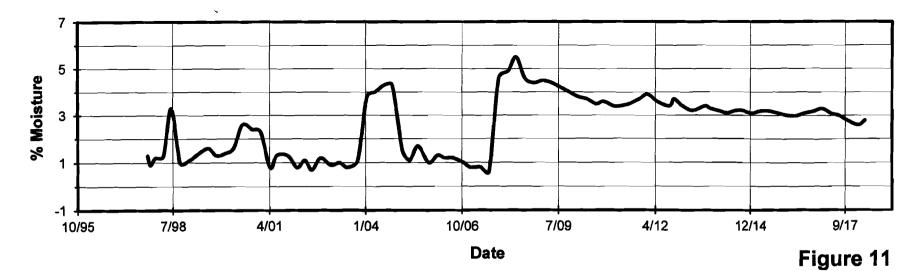


Figure 10

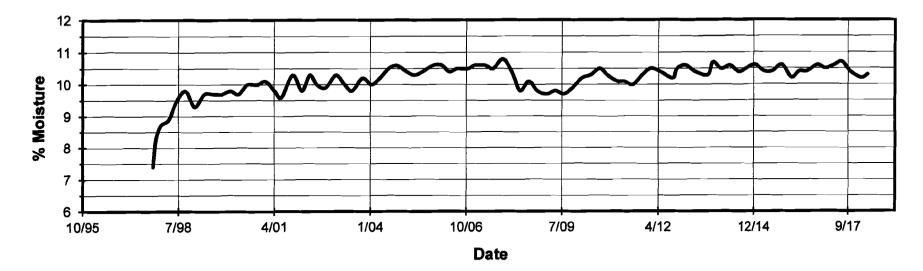




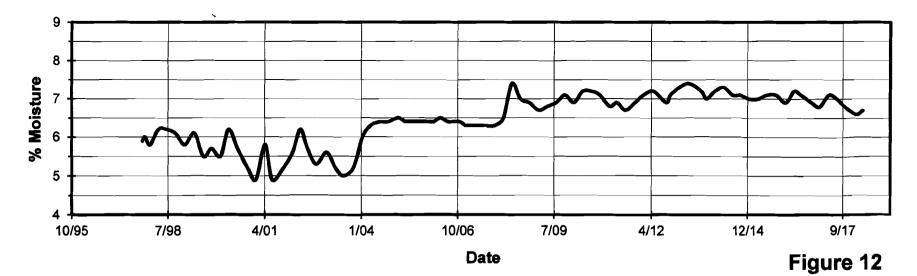
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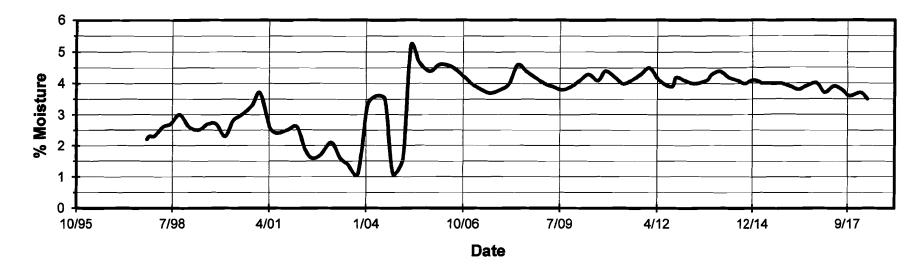




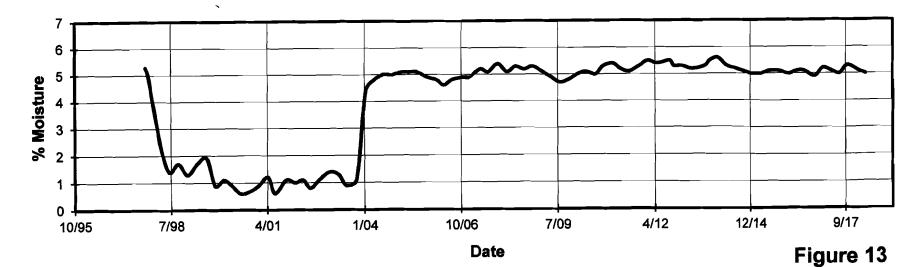
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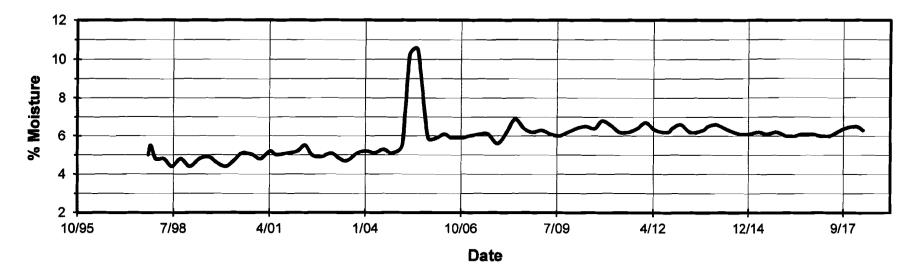




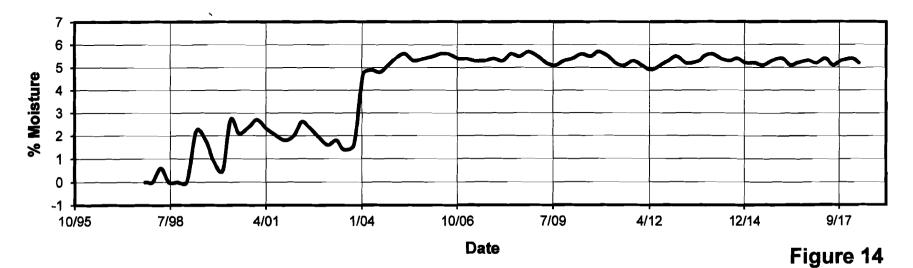
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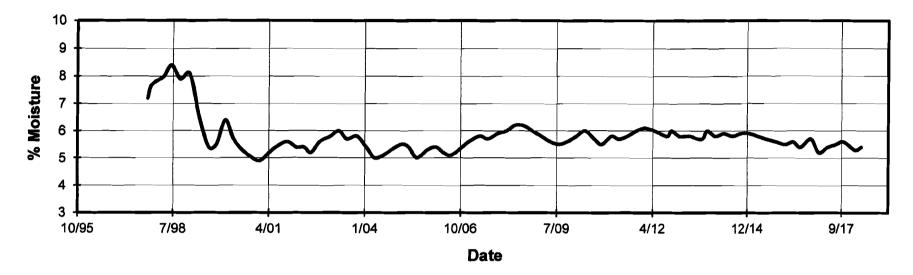




Vadose Zone Monitoring Station 13B



# Vadose Zone Monitoring Station 14A



Vadose Zone Monitoring Station 14B

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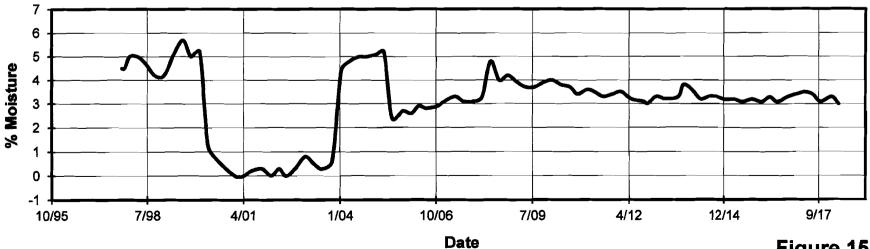


Figure 15

# Westwood

Phase I Environmental Site Assessment Sunray Energy, LLC Solar Energy Generating System I & II 35100 Santa Fe Street, Daggett, California 92327

November 6, 2015



Prepared For:

Centaurus Renewable Energy, LLC 2800 Post Oak Boulevard, Suite 225 Houston, TX 77056

7699 Anagram Drive Eden Prairie, MN 55344

Main (952) 937-5150 Fax (952) 937-5822

westwoodps.com (888) 937-5150

# Westwood

November 6, 2015

Kieth Holst Centaurus Renewable Energy 2800 Post Oak Boulevard, Suite 225 Houston, TX 77056

#### Re: Phase I Environmental Site Assessment Sunray Energy, LLC Solar Energy Generating System I & II at 35100 Santa Fe St. Daggett, CA Project No. R0006575.01

Dear Mr. Holst:

Westwood Professional Services (Westwood) completed a Phase I Environmental Site Assessment (Phase I ESA) for the subject property in conformance with the scope and limitations of ASTM Practice E 1527-13. Any exceptions to or deletions from this practice are described in Section 2.2 of this report.

Centaurus Renewable Energy LLC (Centaurus) (USER) retained Westwood Professional Services (Westwood) to prepare a Phase I ESA for the Sunray Energy, LLC Solar Energy Generating System (SEGS) I and II located at 35100 Santa Fe Street, Daggett, San Bernardino County, California 92327 (Subject Property). The operating solar electric generating facility on the Subject Property is in the process of being decommissioned and the facility is being purchased by Centaurus.

This assessment has revealed nine ASTM Recognized Environmental Conditions (RECs) in connection with the Subject Property. Please refer to the report for details. If you have any questions or wish to discuss any particular aspect of the project, please feel free to call me at (952) 906-7423. We look forward to being of continued service to you.

Sincerely,

Westwood Professional Services

Thomas Braman Senior Environmental Scientist

#### SUNRAY SOLAR PHASE I ENVIRONMENTAL SITE ASSESSMENT

#### FOR:

Sunray Energy, LLC Solar Energy Generating System SEGS I and II 35100 Santa Fe Street, Daggett, California 92327

#### **PREPARED FOR:**

Centaurus Renewable Energy, LLC

#### **PREPARED BY:**

Westwood Professional Services, Inc. 7699 Anagram Drive Eden Prairie, Minnesota 55344

Westwood Project Number: 0006575.01

November 6, 2015

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# **EXHIBITS**

Exhibit 1:	Subject Project Location Map
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Exhibit 2: Subject Property Map

#### APPENDICES

- Appendix A: USER Questionnaire
- Appendix B: EDR Data map Area Study
- Appendix C: Historical Topographic Maps and Aerial Photographs
- Appendix D: Subject Property Reconnaissance Photographs

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#### 1.0 EXECUTIVE SUMMARY

Centaurus Renewable Energy, LLC (Centaurus / USER) retained Westwood Professional Services (Westwood) to prepare this Phase I Environmental Site Assessment (Phase I ESA) for the Cogentrix Sunray Energy, LLC Solar Energy Generating System (SEGS) I & II facility. The facility is located at 35100 Santa Fe Street, Daggett, San Bernardino County, California (Subject Property) (See Exhibit 1). The approximately 333 acre Subject Property is developed as a concentrated solar energy generation facility utilizing parabolic trough technology to convert radiation from the sun to produce steam for electricity generation using specialized oil products as a heat transfer fluid (HTF). There are two HTFs used on the Subject Property. In SEGS I, the north solar array, Chevron Heat Transfer Oil (Chevron HT or a similar HTF which is called Caloria® HTF is used. In SEGS II, the south solar array, Therminol® HTF is used. SEGS I is in the process of being decommissioned. The solar array of SEGS II continues to be used to produce electricity.

The purpose of this Phase I ESA report is to provide due diligence investigation for purchase and financing of the Subject Property.

Known documentation that is available to the USER is compiled in the Cogentrix Sabertooth dataroom. It contains numerous reports and studies including previous Phase I and II documents prepared by others for the Subject Property. Specifically, it includes a Phase I ESA prepared in 2008 by Tetra Tech, Inc. (TTEC); A Phase II ESA prepared in 2008 by Northgate Environmental Management (Northgate); and a Phase I ESA prepared in February 2015 by MWH Americas, Inc. (MWH).

The Subject Property was used for agricultural production as part of the Van Dyke Ranch, which was settled in 1901. It later became the Cool Water Ranch before being sold to Southern California Edison (SCE). The Subject Property was leased to LUZ Engineering Corporation (LUZ) and developed and operated as the SEGS I & II facility in 1985. LUZ eventually went into bankruptcy and Daggett Leasing Corporation (DLC) acquired the Subject Property. Eric Wills, the principal owner of DLC, changed the name to Sunray Energy. Land was later purchased from SCE. Cogentrix purchased the Subject Property in 2009.

This Phase I ESA identified the following Recognized Environmental Conditions (RECs) in connection with the Subject Property.

ID	Source of REC	Location	Note
REC 1	Caloria HTF use area	SEGS I	Numerous reported and de minimis releases of Caloria HTF were observed and reported.
REC 2	Caloria HTF contaminated soil stockpile	Northeast of SEGS I	Temporary stockpile of soil contaminated with Caloria HTF until it can be spread in the SEGS I Caloria land treatment unit (LTU).
REC 3	Sifting/storage area for lead	East of SEGS I	Fragments of broken mirrors containing lead based paint are separated from soil by sifting and stored.

1

	based paint on mirrors		
REC 4	Unpermitted Caloria HTF LTU	Between SEGS I and SEGS II (east)	An unpermitted Caloria HTF LTU was used.
REC 5	Caloria HTF Tank Fire	Center of SEGS I	A Caloria HTF storage tank fire occurred in February-1999. Caloria HTF contamination was subsequently detected at 35-feet below ground surface.
REC 6	Therminol HTF use area	SEGS II	Numerous reported and de minimis releases of Therminol HTF.
REC 7	Therminol HTF contaminated soil stockpile	Southwest of SEGS II	Temporary stockpile of soil contaminated with Therminol HTF until it can be spread in the SEGS II LTU.
REC 8	Fueling area with above ground storage tanks (ASTs)	East of SEGS II	Gasoline and diesel ASTs are used to fuel equipment on the Subject Property.
REC 9	Evaporation pond 1 (north)	Southeast corner of the Subject Property	The liner in the north evaporation pond is torn. Metals and salts have accumulated and are concentrated under the evaporation pond liner. Concentrations of salt were detected by MWH in soil samples above the background concentrations.

Numerous de minimis releases of HTF were reported in previous reports found in the Sabertooth data room and observed during the field reconnaissance for this Phase I within the SEGS I and II areas designated as RECs 1 and 6. These releases are being cleaned up as they are encountered. There is daily monitoring of equipment which provides prompt identification of a release so it can be contained and properly treated. De minimis conditions were observed at the equipment staging area identified as I on Exhibit 2.

The RECs identified above are currently being further assessed with soil borings in a Westwood Phase II ESA and additional due diligence activities. The current Westwood Phase II ESA consists of exploratory soil borings to address each of the RECs identified above. Additional due diligence activities that will be conducted or has recently been conducted and will consist of ongoing file review as data is uploaded into Cogentrix's Sabertooth internet data base, interviews with Cogentrix's environmental staff, and interviews with the California Lahontan Regional Water Quality Board.

Based on the information presented in this Phase I ESA additional Phase II ESA or due diligence activities beyond what are currently being conducted is not recommended or needed at this time.

This Phase I ESA was conducted in accordance with Westwood Professional Services approved scope of work agreed to by the USER. This was a limited inquiry, and additional work would be necessary to identify all potential environmental issues at the Subject Property. Third parties may review this information at their sole risk and expense.

# 2.0 INTRODUCTION

Centaurus Renewable Energy, LLC (Centaurus) (USER) retained Westwood Professional Services (Westwood) to prepare this Phase I ESA for the Cogentrix Sunray Energy, LLC SEGS I and II property located at 35100 Santa Fe Street, Daggett, California (Subject Property). The Subject Property is a solar energy generation facility utilizing a specialized HTF to convert radiation from the sun to produce steam for electricity generation.

The Subject Property was used for agricultural purposes prior to development as a solar electric generating facility. SEGS I began operating in 1983 and SEGS II began operating in 1985. The Subject Property was originally part of the Van Dyke Ranch which was settled in 1901 and later became the Cool Water Ranch before being sold to Southern California Edison (SCE). LUZ Engineering Corporation (LUZ), the original developer of SEGS I and II, leased the Subject Property from SCE. LUZ eventually went into bankruptcy and the Subject Property was acquired by Daggett Leasing Corporation (DLC). Eric Wills, the principal owner of DLC, later changed the Subject Property's name to Sunray Energy In addition, land was purchased from SCE. Cogentrix purchased the Subject Property in 2009. Previous Phase I and Phase II investigations have been completed for the Subject Property by others and their reports and findings are available to the USER in digital form in the Cogentrix Sabertooth data room.

#### 2.1 Purpose

The purpose of this Phase I ESA report is to provide due diligence investigation for purchase and financing of the Subject Property.

Westwood's work for this Phase I ESA conforms to the general requirements of the American Society for Testing and Materials (ASTM) Practice E 1527-13 Standard Practice for environmental site assessments: Phase I ESA Process and 40 CFR § 312 Subp. C, All Appropriate Inquiries (AAI) standards and practices. The purpose of this standard practice is to define good commercial and customary practice for conducting a Phase I ESA of a parcel of commercial real estate with respect to the range of contaminants within the scope of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and petroleum products. This ESA is intended to evaluate the presence or likely presence of hazardous substances or petroleum products at the property resulting from a release or material threat of a release to the land surface, subsurface strata, surface water, or groundwater.

The presence or likely presence of hazardous substances or petroleum products at the property can be classified as a recognized environmental condition (REC), historical recognized environmental condition (HREC), or controlled recognized environmental condition (CREC).

#### RECs are defined by ASTM E1527-13 as follows:

The presence or likely presence of any hazardous substances or petroleum products in, on, or at: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

#### An HREC is defined by ASTM E1527-13 as follows:

A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

#### A CREC is defined by ASTM E1527-13 as follows:

A REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

The ESA is not intended to address de minimis conditions; i.e., a condition that do not represent a threat to human health or the environment, or would not be subject to enforcement action if brought to the attention of a regulatory agency.

#### 2.2 Scope of Services

Centaurus retained Westwood Professional Services, Inc. to conduct a Phase I ESA. The USER of the Phase I ESA defined the Subject Property by address for Westwood. Westwood performed the Phase I ESA according to ASTM Practice E1527-13 to determine if the Subject Property is known to contain an existing release, past release, or a material threat of a release of hazardous substances or petroleum products into structures or into the ground, groundwater, or surface water. The Phase I ESA process does not require sampling, which may verify or evaluate the extent of suspected environmental impacts. If recommended, a Phase II ESA will aid in confirming the presence or lack of environmental impacts. The study was performed in accordance with Westwood Professional Services proposal, and considered the following:

**Records Review**– Westwood obtained and reviewed available records to identify RECs in connection with the Subject Property. Availability of records information varies from information source to information source, including government jurisdictions. The ASTM standard identifies record information from standard sources and the USER. The

Environmental Professional is required to review only record information that is reasonably ascertainable or practically reviewable. Westwood researched the operations of the Subject Property back to 1939 or to the Subject Property's earliest development, whichever was earlier.

**Subject Property Reconnaissance**- Westwood performed a Subject Property reconnaissance to visually observe RECs in connection with the Subject Property during one or more Subject Property visit(s). Westwood observed structures on the Subject Property to the extent that the view of such structures was not obstructed by adjacent buildings, or other obstacles. Limitations are noted within the Phase I ESA Report.

The Subject Property and the exterior of its structures were observed. The interiors of structures on the Subject Property, including accessible common areas were observed to the extent that such interiors were readily viewed from public areas and through open doors.

**Interviews**– Westwood conducted landowner interviews to obtain additional information indicating RECs in connection with the Subject Property. Westwood also conducted interviews with state and/or local government officials, including representatives of agencies such as the Department of Health, Fire Department, Planning Department, Building Permit Department, and/or Local Utility Departments.

**Report** – Westwood prepared this Phase I ESA report to generally follow the recommended report format of ASTM Practice E1527-13. This Phase I ESA report includes a scope of services, findings, opinions, and conclusions, which are supported by documentation collected during the assessment.

# 2.3 Significant Assumptions

Landowner contact information, boundaries of the Subject Property, and information pertaining to lands to be developed for the Subject Property were provided to Westwood by the USER. Westwood assumes that all information supplied is true and accurate. Westwood assumed the boundaries of the Subject Property are accurate based information supplied by the USER. The identification of geologic or geotechnical hazards was beyond the scope of this project.

#### 2.4USER Reliance

Westwood's findings and opinions in this Phase I ESA are exclusively for the use of the USER and its assignees. Westwood will not distribute or publish the Phase I ESA report without the consent of the USER, except as required by law or court order. The USER retained Westwood to perform the Phase I ESA and no other party may rely on the Phase I ESA report without Westwood's written consent. The findings and opinions contained herein are limited to use by the USER. Westwood's services for this project have been performed in a manner consistent with normal standards of the profession. No other warranty or guarantee, expressed or implied, is made.

# 3.0 SUBJECT PROPERTY DESCIPTION

# 3.1 Location and Legal Descriptions

The Subject Property is located at address5100 Santa Fe Street, Daggett, San Bernardino County, California 92327. It is approximately 1.4 miles north of Interstate 40 and adjacent to Sunray Lane. It is located in parts of Sections 13 and 24; Township 9N; approximately 34.863562°,-116.826486° and covers approximately 333 acres (Exhibit 1).

# **3.2 Subject Property Features and Operations**

The Subject Property is an operating industrial concentrated solar power generating facility. Subject Property reconnaissance photographs are in Appendix D. The Subject Property solar facility has two primary solar arrays on approximately 333 acres of land, SEGS I and II. SEGS I is the northern solar array and had a name plate rating of 14.7 megawatts. SEGS II is the southern array and has a name plate rating of 30 megawatts. The Subject Property boundaries are shown on Exhibit 2.

SEGS I consists of a solar array currently being decommissioned, an active power block, cooling towers, and a soil LTU. An approximately 3,240 square foot administration building is located at the SEGS I Power Block. Additional trailer offices are located southeast of the administration building.

SEGS II consists of an active solar array, inactive power block and cooling tower, and an LTU along the southern border. Between SEGS I and II is an area utilized for pipe fabrication (including pipe and pipe insulation storage), decommissioned power block component storage, and refuse wood and glass tube piles. Along the east-southeast border is the equipment yard and in the southeastern corner of the facility are the one inactive and two active evaporation ponds.

The facility uses parabolic mirrored troughs that focus the sun's energy on a glass encapsulated stainless steel tube containing HTF. The heated HTF is currently pumped through the SEGS II array tubes to the SEGS I Power Block where the HTF is used to generate steam. The steam is used to power a turbine generator.

Two HTFs have been used at the Subject Property. The HTF stored at SEGS I, in the north array, is Caloria, a de-waxed paraffinic petroleum distillate. The HTF used at SEGS II, the south array, is Therminol, a eutectic mixture of biphenyl and diphenyl oxide. Therminol HTF can contain small concentrations of benzene.

After SEGS II experienced a turbine failure on June 16, 2014, a Therminol HTF pipe header was created linking the SEGS II array to the SEGS I Power Block in order to provide heated HTF to the steam generator at SEGS I. The operations at the SEGS II Power Block operations ceased as of the date of the turbine failure, with the exception of the reverse osmosis (RO) and Therminol HTF pumps. The Caloria HTF network from the SEGS I solar array was therefore disconnected from the SEGS I power block to accommodate the Therminol HTF connection to the SEGS II array. The Caloria HTF is being evacuated from the pipes and the SEGS I array is being dismantled.

# 3.3 Hydrogeological and Topographical Conditions

The Subject Property is not located within 3/4 mile of a 100-year or 500-year flood zone. The Mojave River is located approximately 1.25 miles to the north. Wetlands were shown on the National Wetlands Inventory within 3/4 mile north of the Subject Property.

The Subject Property lies within the Mojave Valley in the western Mojave Desert of the Mojave Desert geologic province. The Calico Mountains and the Calico Fault are located north and east of the Subject Property, and the Newberry Mountains and the Lenwood Fault are located to the south. The underlying geology consists of extensive successions of undifferentiated Holocene alluvial deposits (Bortugno and Spittler, 1986). Near-surface sedimentary materials consist of intermixed sands, silts, clays, and localized gravels and cobbles. Layers of caliche (calcium carbonate partially-cemented sediments) are typical throughout the area at shallower depths. The caliche is formed by infiltrating rainfall dissolving salts near the ground surface, and then depositing the salt at the depth of maximum infiltration. The low rainfall and high evapotranspiration rate result in caliche layers in near surface soils (Northwood, 2008).

The Calico Mountains are highly colored bright green sedimentary and dark reddish brown volcanic rocks of Tertiary age. From 1882 to 1896 the area was mined for its high grade, low-tonnage silver deposits, and then until 1907 for borax (Sharp, 1972). Water well drillers' reports for water production wells installed at the Subject Property indicate that the geology to depths of approximately 400-feet below ground surface consists of an interlayered sequence of medium to coarse sand, fine sand, silt, and clay with localized gravel and cobbles. Clay layers of five- to 10-foot thickness are described in several of the logs (Northwood, 2008).

The Subject Property is located within the Lower Mojave River Valley hydrogeologic groundwater basin, a 430-square-mile alluvial basin drained by the Mojave River through alluvial materials. Drainage is entirely internal with no discharge to the ocean. Reported well yields in the Lower Mojave River Valley ranged from 560 to 1,700 gallons per minute (DWR, 1975). Saline deposits within the sediments of the basin limit local groundwater uses (Northwood, 2008).

Protection of groundwater quality in the area is under the authority of the Regional Water Quality Control Board — Lahontan District (RWQCB). Information obtained through the RWQCB indicates the presence of approximately 12 groundwater production wells and approximately 10 groundwater monitoring wells in the vicinity of the Subject Property. The production wells are used to supply the nearby Solar Two facility and the NRG Cool Water Generating Station, and for agricultural purposes (Northwood, 2008). Groundwater resources in the area are managed by the Mojave Water Agency (MWA). The MWA has several monitoring wells within the general area of the Subject Property. The MWA maintains records of groundwater irrigation and industrial production wells near the Subject Property. Groundwater beneath the Subject Property flows north to northeast towards the Mojave River (Northwood, 2008).

Five groundwater production wells on the Subject Property supply process water. The depth to groundwater within these wells under pumping conditions is approximately 150-feet. Production well depths range from 300 to 400-feet. According to records, groundwater use at the Subject Property from 2013 to 2014 averaged 284.52 acre-feet per year, and ranged from 190 to 379.03 acre-feet per year.

According to EDR, the Subject Property has an elevation of approximately 1,945-feet above sea level. The topography is generally flat with a slight upward slope to the south and a slight downward slope to the east. Stormwater flows east toward Sunray Lane.

# 3.4 Current Uses of Subject Property

The current use of the Subject Property is a working industrial concentrated solar power electricity generating facility.

#### 3.5 Structures, Roads, and Improvements

Structures on the Subject Property include the SEGS I and SEGS II power blocks which are centrally located within the arrays. The SEGS I power block and cooling tower are active and the SEGS II power block and cooling towers are inactive. Sunray Lane is the paved primary road and there are numerous dirt access roads around and throughout the solar arrays. Other improvements include two solar arrays. SEGS I array is inactive and being dismantled, and SEGS II array is active. There is a centralized office in SEGS I and other offices in trailers, a material warehouse and a maintenance shop and storage areas, a fueling area for equipment, two active evaporation ponds, and two LTUs.

# 3.6 Current Uses of Adjoining Properties

Current uses of adjoining properties include: areas of undeveloped land, farmland to the north and east, Santa Fe Road to the south and the NRG Cool Water electrical generating station to the west.

# 4.0 INFORMATION PROVIDED BY USER

#### 4.1 Title Records

Title information was made available by EDR for the MWH Phase I ESA which is located in the Cogentrix Sabertooth data room. No other indications of environmental liens or activity or use limitations were identified by the USER.

#### 4.2 Environmental Liens and Activity and Use Limitations

The USER indicated that, to their knowledge, there are no known environmental liens or activity and use limitation associated with the Subject Property or cleanup.

# 4.3 Valuation Reduction for Environmental Issues

The USER indicated that the remediation of known contamination will be factored into the transaction.

# **5.0 RECORDS REVIEW**

# 5.1 Sources of Environmental Records

Environmental Data Resources, Inc. (EDR) provided regulatory record sources listed in Sections 8.1.1 through 8.2.2 of the ASTM Standard. The EDR DataMap Environmental Atlas is included in Appendix B. The records review identified records of known sites located within the ASTM minimum search distances from the Subject Property. EDR also provided Westwood with certain supplemental environmental database records that surpass the ASTM minimum standards government database lists. Any facilities identified by Westwood within the immediate vicinity of the Subject Property are discussed in the appropriate database section. The ASTM prescribed search radius for each database searched for records by EDR, the number of listings located on each database searched, and their appropriate locations with respect to the Subject Property, are summarized in the following table. The listings are located as shown in the EDR report. Refer to the EDR report in Appendix B for a detailed description of each database that is searched in their evaluation, and the date of the last revision for each sources searched by EDR.

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2-1	>1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS	8						
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		1 0 NR	0 NR	0 P NR	0 NR	NR NR NR	100
Federal Delisted NPL si	ite list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list						20		
CERCLIS FEDERAL FACILITY	0.500 0.500		2	a a	0 0	NR NR	NR NR	1
Federal CERCLIS NFRA	P site List							
CERC-NFRAP	0.500		0	0	1	NR	NR	1
Federal RCRA CORRAC	CTS facilities h	ist						
CORRACTS	1.000		1	0	1	0	NR	2
Federal RCRA non-COF	RACTS TSD	acilities list						
RCRA-TSDF	0.500		0	0	1	NR	NR	1
Federal RCRA generato	urs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0 250 0 250 0 250		0	000	NR NR NR	NR NR	NR NR	100
Federal institutional co engineering controls re								
US ENG CONTROLS US INST CONTROL LUCIS	0.500 0.500 0.500		1	000	000	NR NR	NR NR	1
Federal ERNS list						1000		
ERNS	TP	16	NR	NR:	NR	NR	NR	16
State- and tribal - equiv	alent NPL							
CA RESPONSE	1.000		0	α	0	Ø	NR	0
State- and tribal - equiv	alent CERCLI	s				100		
CA ENVIROSTOR	1 000			0	0	0	NB	1
State and tribal landfill solid waste disposal sit								
CA SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank	lists						
CALUST	0.500		1	a	0	NR	NR	1

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MAP FINDINGS SUMMARY								
Database	Search Distance (Miles)	Target Property	< 1/8	<u>1/8 - 1/4</u>	1/4 - 1/2	1/2-1	>1	Total Plotted
CA SLIC INDIAN LUST	0.500		ò	0 0	0 0	NR NR	NR NB	0
State and tribal register	red storage tai	nk lists						
CA UST CA AST INDIAN UST FEMA UST	0.250 0.250 0.250 0.250 0.250		0000	000	NR NR NR	NR NR NR	NR NR NR	1 0 0
State and tribal volunta	ry cleanup sit	es						
CA VCP INDIAN VCP	0.500 0.500		00	a o	0	NR	NB NR	0
ADDITIONAL ENVIRONME	NTAL RECORD	5						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	D
Local Lists of LandIIII / Waste Disposal Sites	Solid							
DEBRIS REGION 9 ODI CA SWRCY CA HAULERS INDIAN ODI CA WMUDS/SWAT	0.500 0.500 0.500 TP 0.500 0.500	4	0 0 NR 0 0		0 0 NR 0 1	NR NR NR NR NR	NR NR NR NR NR	00000
Local Lists of Hazardou Contaminated Sites	is waste /							
US CDL CA HIST Cal-Siles CA SCH CA Toxic Pits CA CDL US HIST CDL	TP 1 000 0 250 1 000 TP TP		NOOORR		NR O NR O R NR	NR OR NR OR NR	NR NR NR NR	000000
Local Lists of Register	ed Storage Tar	iks						
CA FID UST CA HIST UST CA SWEEPS UST	0.250 0.250 0.250		0 4 2	000	NR NR NR	NR NR NR	NR NR	0 4 2
Local Land Records								
LIENS 2 CA LIENS CA DEED	TP TP 0.500		NR NR O	NR NR 0	NR NR 0	NR NR NR	NR NR NR	000
Records of Emergency	Release Repo	rts						
HMIRS CA CHMIRS CA LDS	TP TP TP	14 1	NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 14 1

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#### MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
CAMCS	TP		NR	NR	NR	NR	NR	0
CA SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Rec	ords							
RCRA NonGen / NLR	0.250		0	Q	NR.	NR	NR	0
DOT OPS	TP		NR	NIR	NB	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1 000		0	a	0	0	NR	D
CONSENT	1.000		α	0	a	0	NR	D
ROD	1.000		1	0	0	0	NR	1
UMTRA	0.500		0	0	0	NR	NR	D
US MINES	0.250		0	D	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	Ø
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	D
MLTS			NR	NR	NR	NR	NR	
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	ö
CA BOND EXP. PLAN	1 000		0	0	0	0	NR	ő
CA NPDES	TP	2	NR	NR	NR	NR	NR	2
CAUIC	TP	6	NR	NR	NR	NR	NR	â
CA Cortese	0.500		0	0	0	NR	NR	ñ
CA HIST CORTESE	0.500		3	ö	ő	NR	NR	3
CA CUPA Listings	0.250		0	o	NR	NR	NR	10
NY MANIFEST	0.250		ň	ő	NR	NR	NR	Ť
CA Notify 65	1.000		ò	ŭ	0	0	NR	n
CA DRYCLEANERS	0.250		ŏ	ŏ	NR	NR	NR	D
CAWIP	0.250		ő	ő	NR	NR	NR	ŏ
CAENF	TP	1	NR	NR	NR	NR	NR	ĩ
CA San Bern, Co. Permit	0.250	1	0	0	NR	NR	NR	1
CAHAZNET	TP	з	NR	NR	NR	NR	NR	3
CAEMI	TP	1	NR	NR	NR	NR	NR	1
INDIAN RESERV	1.000		0	0	0	Ũ	NR	Ŭ.
SCRD DRYCLEANERS	0.500		0	0	õ	NR	NR	Ŭ.
CAWDS	TP	2	NR	NR	NR	NR	NR	2
CAPROC	0.500		0	0	0	NR	NR	0
CAHWT	0.250		0	Ū.	NR	NR	NR	U U
CAHWP	1.000		1	0	0	0	NR	1
CA MWMP	0 250		0	0	NR	NR	NR	0
CA Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	r	NR	NR	NR	NR	NR	Ť
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0 500		0	a	0	NR	NB	ũ

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MAP FINDINGS SUMMARY								
Database	Search Distance (Miles)	Target. Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
PCB TRANSFORMER COAL ASH DOE 2020 COR ACTION PRP	TP TP 0.250 TP		NROR	NR NR O NR	NR NR NR	NR NR NR	NR NR NR	0000
EDR HIGH RISK HISTORIC	AL RECORDS							
EDR Exclusive Records	1							
EDR MGP EDR US Hist Auto Stat EDR US Hist Cleaners	1.000 0.250 0.250		000	0 0 0	0 NR NR	NR NR	NR NR NR	000
EDR RECOVERED GOVER	NMENT ARCHI	VES						
Exclusive Recovered G	ovt. Archives							
CA RGA LUST CA RGA LF	TP TP		NR NR	NR	NR NR	NR	NR NR	a n
- Totels		44	21	0	-4	0	0	67
NOTES								
TP = Target Property								
NR = Not Requested at	this Search D	stance						

#### 5.2 Historical Use Information for the Subject Property

The Subject Property was used for agricultural production before it was developed as a solar electric generating facility. Based on review previous reports and sources, the Subject Property was vacant, undeveloped land prior to 1952. Aerial photographs appear to show that grading occurred in the north and southeastern portions of the Subject Property where SEGS I and the evaporation ponds are located. The Subject Property appears fully developed in the 1995 aerial photograph. SEGS I began operating in 1983 and SEGS II began operating in 1985. According to the Phase I ESA prepared by TTEC in November 2008, the Subject Property was originally part of the Van Dyke Ranch which was settled in 1901 and later became the Cool Water Ranch before being sold to SCE. LUZ, the original developer of SEGS I and II, leased the project Subject Property from SCE. LUZ eventually went into bankruptcy and the Subject Property was acquired by DLC. Eric Wills, the principal owner of DLC, later changed the Subject Property's name to Sunray Energy. In addition, land was purchased from SCE. The dates when these changes in ownership occurred are unknown. Cogentrix purchased the Subject Property in 2009.

# 5.2.1 Topographic Maps

Three historical topographic maps of the Subject Property and surrounding area (1956, 1971 and 983) were reviewed. The referenced topographic maps are provided as Appendix C.

The 1956 USGS Daggett Quad map shows the Subject Property as vacant land. The Atchison, Topeka, and Santa Fe Railway are depicted where present-day Santa Fe Street is located. A gravel pit is located adjacent and south of the railway. Route 66 is shown south of the Subject Property beyond the railway. A pipeline is depicted further south of the Subject Property south of Route 66. The Mojave River is labeled in the area north of the Subject Property and is depicted as a muddy area. Small clustered structures in the town of Yermo are depicted further north of the Subject Property alongside the town of Yermo. The Marine Corps Supply Center in the Yermo area is depicted southeast of the Subject Property adjacent to Santa Fe Street where the present-day Barstow Daggett County Airport is located. A private transmission line traversing in the southwest and northeast directions is depicted east of the Subject Property.

The 1971 USGS Minneola Quad map shows the Subject Property and surrounding similar to the 1956 topographic map. A borrow pit is depicted where the gravel pit was shown in the 1956 map. Interstate 40 is depicted further south of the Subject Property beyond present-day Route 66. Another borrow pit is labeled southeast of the Subject Property south of Interstate 40. The pipeline depicted further south of the Subject Property south of Route 66 is still labeled on this topographic map. The private transmission line depicted in the 1956 topographic map is still depicted on this topographic map. Present-day Hidden Springs Road is shown east of the Subject Property.

In the 1983 USGS Daggett Quad, the Subject Property appears undeveloped. Streets surrounding the Subject Property are visible. A circular solar field with a labeled tower is shown northwest of the Subject Property. A gravel pit is labeled west of the Subject Property, south of the circular solar field. A pond structure, towers, a power plant, wells, and tanks are indicated west of the Subject Property where the present-day NRG Cool Water facility is located. The Marine Corps Supply Center in the Yermo area is depicted northwest of the Subject Property as shown in the 1956 topographic map is now labeled as the Barstow Daggett County Airport. The Mojave River located north of the Subject Property is depicted as a wet. A waterway and Interstate 15 are depicted north of the Subject Property. Borrow pits are depicted south of the Subject Property alongside Santa Fe Street and Interstate 40.

# 5.2.2 Aerial Photographs

Westwood obtained historical aerial photographs associated with the Subject Property from EDR. Years of photographs received include 1952, 1953 1963, 1973, 1983, 1989, 1995, 2005, 2010, 2012, covering 60 years. These aerial photographs are included in Appendix C.

In the 1952 aerial photograph, the earliest record of the Subject Property reviewed, the Subject Property and surrounding areas were primarily vacant and with portions used for agriculture west and northeast. A footprint of present-day Yermo Road located north of the Subject Property is visible, as do the transmission lines located to the southeast.

In the 1953 aerial photograph, a broader view of the Subject Property and surrounding area are visible. No significant change is visible. There was agricultural land northeast and west and undeveloped land over most of the Subject Property and to the north and south.

In the 1963 aerial photograph, the north portion of the Subject Property where presentday SEGS I is located appears to be undeveloped, while the east and west portions where present-day SEGS II is located appear have minor vegetative changes and may have been used for agriculture. Graded areas still appear east of the Subject Property. Additional graded areas appear southeast of the Subject Property near where the present-day evaporation ponds are located. The footprint of the private transmission line identified in the topographic maps located southeast of the Subject Property is apparent in this photograph.

Water damage is visible to the 1973 aerial photograph. The Subject Property and the immediate vicinity appear similar in comparison to the 1963 aerial photograph. Graded areas still appear in the northern and southeastern areas. A larger graded area is apparent in the southeast area of the Subject Property, east of the private transmission line.

In the 1983 aerial photograph, the Subject Property and the immediate area appear vacant. Graded areas are still visible northeast of the Subject Property. A circular solar field is depicted northwest of the Subject Property.

In the 1989 aerial photograph, the Subject Property is fully developed. Additional farmed land is visible surrounding the areas, some with center pivot irrigation systems visible north and southwest of the Subject Property. The circular solar field depicted in the 1983 topographic map is visible northwest of the Subject Property. An excavated area is visible between the evaporation ponds and the highway to the south. It appears to be the coal slag disposal site associated with the NRG Cool Water electrical generating facility.

In the 1995 aerial photograph, the Subject Property the same as it did in 1989. The SEGS I and SEGS II Power Blocks and solar array are apparent at the Subject Property. Large tanks at the Subject Property are visible north of the SEGS I Power Block. The SEGS II

cooling towers at the Subject Property are apparent further south of the SEGS II Power Block. The evaporation ponds in the southeast corner of the Subject Property are also apparent. Present-day Sunray Lane between the Subject Property solar arrays and evaporation ponds is also visible. The circular solar field located northwest of the Subject Property is still visible. Agricultural fields with center pivot irrigation remain visible north and southwest of the Site. A rectangular agricultural area is visible adjacent to and west of the Subject Property's SEGS I solar array. The apparent coal slag disposal site between the highway and the evaporation ponds appears filled in, abandoned and fenced.

In the 2005 aerial photograph, the Subject Property appears similar in comparison to the 1995 aerial photograph with the exception that the two large tanks north of the SEGS I Power Block visible in the 1995 photograph are no longer present. The circular solar field located northwest of the Subject Property is still apparent. The agricultural fields with center pivot irrigation located north and southwest of the Subject Property that were visible in the 1995 aerial photograph no longer appear vegetated. The rectangular graded area west of the Subject Property still appears in this aerial photograph.

In the 2009 aerial photograph, the Subject Property and surrounding areas appear similar in comparison to the 2005 aerial photograph. A larger center pivot irrigation system agricultural field appears off the Subject Property, east of Sunray Lane.

In the 2010 aerial photograph, the Subject Property and surrounding areas appear similar to the previous aerial photograph. The circular solar field located northwest of the Subject Property no longer exists.

In the 2012 aerial photograph, the Subject Property and surrounding areas appear similar to the previous aerial photograph. An unidentified rectangular structure appears in the Subject Property's SEGS II solar array.

# 5.2.3 Building Permits

Westwood reviewed the county website for available building records for the Subject Property and no records of past building inspections were obtained.

# 5.2.4 Sanborn® Fire Insurance Maps

EDR, owner of the Sanborn Company, searched their collection of fire insurance maps and determined map coverage is not available for the Subject Property (See Appendix B).

# 5.2.5 City Directories

EDR historical city directory records (EDR City Directory Image Report), which includes the following business directory listings were provided for the Subject Property with the address of the Subject Property, at 35100 Santa Fe Street. (See Appendix B).

Date	Name of Facility in Listing
2010	Daggett Leasing Corp.; Electric Co.
	Pacific Gas & Electric Co.; Gas Co.
	Pacific Gas & Electric Co.; Pacific Gas
	& Electric
2005,	Daggett Leasing Corp.; Pacific Gas &
2000	Electric
1995	Daggett Leasing Corp.

Additional listings for this address were not provided.

There was no listing in the business directories for the property NRG Cool Water facility was located southwest of the Subject Property.

The following business listings were provided for nearby addresses along Santa Fe Street, located southwest of the Subject Property:

#### 35596 Santa Fe Street

Date	Name of Facility in Listing
2005; 2000	Desert Market; U Haul Co. Independent Dealers
1995; 1990	Desert Market
1985; 1980	Scott's Market

#### 37110 Santa Fe Street

Date	Name of Facility in Listing
2000	Sandia National Laboratories

#### 36588 Santa Fe Street

Date	Name of Facility in Listing
1990	Price Transportation

#### 35680 Santa Fe Street

Date	Name of Facility in Listing
1975	Tri-Chem Liquid Embroidery

# 5.3 Historical Use Information for Adjoining Properties

Westwood utilized historic aerial photographs and reports, when provided, to determine the past use of the adjacent properties

According to the aerial photos, maps, and the Phase I ESA prepared by TTEC in November 2008, adjoining properties have been historically used for agriculture or were left vacant. The 1956 topographic map indicates the presence of Marine Corps supply centers in the areas of Yermo and Minneola, located northwest and southeast of the Subject Property, respectively. A circular solar facility located northwest of the Subject Property appears in the 1983 historical topographic and aerials reviewed. According to Google Earth and TTEC's 2008 Phase I ESA, this property was SCE's Solar One Experimental Power Plant. Based on the historical aerial photograph from 2010 and Google Earth, this circular solar facility is no longer present. The NRG Cool Water electrical generating station is located west of the Subject Property. According to the Comprehensive Environmental Assessment (CEA) report prepared by HSI Geotrans (HSI) in 1997 and TTEC's 2008 Phase I ESA, historically, a coal slag disposal site associated with the NRG Cool Water electrical generating facility was located south of the evaporation ponds. This disposal facility was closed and capped, and now four groundwater monitoring wells are used to monitor potential leakage. During the Subject Property visit, this area was observed to be fenced off and monitoring wells were observed in the northwest corner of this property. Based on the 1963 aerial photograph, a dark circular area was historically located in this fenced off area.

# 6.0 SUBJECT PROPERTY RECONNAISSANCE

On July 28, 29 and August 5, 2015, an Environmental Scientist from Westwood conducted Subject Property reconnaissance of the Subject Property. It included review of the elements listed in Section 9 of the ASTM Standard. The objective of the Subject Property reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the Subject Property. The following observations were visually observed and recorded. Photographs from the Subject Property reconnaissance are included in Appendix D.

# 6.1 Methods and Limiting Conditions

Westwood reviewed publicly available aerial photography prior to conducting the Subject Property reconnaissance to identify areas of special concern. The Subject Property was viewed and accessed by vehicle on public and private roads and by pedestrian survey on foot.

# 6.2Use of Prior Environmental Assessments

This Phase I ESA is an update of previous Phase I ESAs conducted by MWH in April, 2015 and TTEC in 2008. This Phase I ESA also contains applicable information from a previous Focused Subsurface Investigation Summary Report dated June 26, 2015 by MWH. These reports are available to the USER in the Sabertooth data room. The Sabertooth data room was created by Cogentrix as a central repository for past project

information and data storage to facilitate review for the USER. The database contains numerous reports and studies including previous Phase I and II documents.

# 6.3 General Description of Structures

There are numerous buildings in the Subject Property. Buildings and other structures are summarized in each of the sections below:

The SEGS I array is located in the northern portion of the Subject Property and consists of the Administration Building, three trailer offices, the SEGS I Power Block, a HTF Storage Area, east and west solar arrays, cooling towers, and Caloria LTU. The Administration Building is the main office building for the Subject Property. There are four offices, a conference room, and a control room within the Administration Building. Basements, trenches, sumps, or pits were not observed within the administration building. The administration building is fully air conditioned. Fire alarms, fire suppression devices, and security systems are in place. Three office trailers are located southeast of the Administration Building. A gated and secured transformer compound is located just outside of the Administration Building. Stains were not observed in the transformer compound. A septic tank is located south of the Administration Building.

The SEGS I Power Block area consists of ASTs, piping, pumps, concrete pits, and compressed gas cylinders. Caloria HTF was used at the SEGS I Power Block prior to June 16, 2014. However, due to a turbine failure at SEGS II on June 16, 2014, the oil piping system from SEGS 2 was reconfigured to connect to the SEGS I Power Block in order to provide heated HTF to the steam generator at SEGS I with the Therminol HTF used at SEGS II. The infrastructure at the SEGS I Power Block is located on thick concrete pads. Containers for oil leaks were observed beneath piping at the power block. A 20,093-gallon demineralized water AST is located in the middle of the power block. An air compressor is located in the central portion of the SEGS I Power Block. De minimis oil staining (less than 0.5-feet by 0.5-feet in size) was observed on the concrete pad beneath the air compressor. A 55-gallon drum for oil/water mix waste was observed near the air compressor on top of plastic spill containment. A three-sided corrugated metal enclosure for water treatment chemical storage, a flammables storage cabinet, and lube oil for pumps is located in the central portion of the power block. Steam condensate drains to the condensate pit are located in the southern portion of the SEGS I Power Block. The condensate flows to a vault within the condensate pit and then gets pumped to the east and west evaporation ponds located on the southeast corner of the Subject Property. The condensate pit appeared dry and in good condition. A steam generator is located in the central portion of the SEGS I Power Block. The concrete in this area appeared intact. A 2-foot wide by 5-feet long by 1foot deep soil area stained by Caloria HTF was observed below recently replaced pipe headers located northwest of the SEGS I Power Block. At the time of the Subject Property visit, portions of the soil had been excavated and staged within the HTF Storage Area located north of the SEGS I Power Block. These soils were uncovered and being staged in this area prior to transfer to the SEGS I LTU for treatment. In addition, a 2-foot by 2-feet oil stain was observed on the concrete support below HTF pipes north of the SEGS I Power Block. The concrete below appeared intact.

The HTF Storage Area (or Fire Pit Area) consists of a 30,000-gallon V100 AST and a 10,080-gallon vertical AST within a concrete containment berm. Several drip pans beneath the piping in the concrete containment berm were observed filled with oily water. The concrete in this area appeared intact. Closed drains are located in the concrete containment berm. An additional, empty 24,000-gallon vertical supply AST for the V100 AST is located on unpaved ground adjacent to the V100 AST. The 24,000-gallon vertical supply AST is marked with a "Closed" sign dated April 1, 2012. Additionally, a 500-gallon mobile evacuation trailer used for draining oil from the SEGS I Solar array is stored adjacent to the V100 AST on a separate concrete pad with a berm. The ASTs in the HTF Storage Area are used for storing Caloria HTF. The concrete in the area appeared intact. The entire HTF Storage Area is contained within an 8-feet high dirt containment berm. Odors were not detected in the HTF Storage Area.

The HTF Storage Area is also the same location where an explosion and fire occurred from the former tanks in February, 1999. Wooden stakes were observed to be scattered across the ground of the HTF Storage area. The stakes mark the location where borings were previously advanced under the direction of MWH for their Focused Subsurface Investigation.

A Heptane Ullage Flare was observed north of the HTF Storage Area. Rust staining 2-feet by 2-feet in size was observed on the concrete pad beneath the Heptane Ullage Flare at SEGS I. The concrete pad appeared intact. A one square foot hand dug excavation was observed under the piping where condensate dripping was observed. The Subject Property contacts indicated that this soil was put in the LTU 1. A 55-gallon drum for heptane/water mix hazardous waste was observed near the flare on a wooden pallet. A 1,000-gallon solar array relief AST within concrete containment for the SEGS I solar array relief AST was observed across from the flare and adjacent to the east and west solar arrays. The containment appeared clean and in good condition.

The Cooling Towers for SEGS I are located in the southeastern corner of the SEGS I area. A transformer, a 4,000-gallon sulfuric acid tank with concrete containment, and a 270-gallon potassium hydroxide solution tank with concrete containment are located west of the cooling towers. Staining was not observed on the concrete pad below the cooling tower power transformer. The inside of the concrete containment below the sulfuric acid tank appeared dry with some white precipitate staining. A divided concrete containment area is located adjacent to the sulfuric acid tank containment. The potassium hydroxide solution tank is located on the east end of this concrete containment area. The containment area below the potassium hydroxide solution AST appeared clean and in good condition. There is no tank located on the west end of the concrete containment is located adjacent to the cooling towers. The fire pump is located inside an enclosure on a concrete pad. The concrete below the fire pump appeared intact. The containment below the diesel AST adjacent to the fire pump enclosure appeared clean and in good condition. The cooling towers are located east of and adjacent to the fire pump. Two 10-gallon buckets of oxidizer

were observed on the east end of the cooling towers inside a spill pallet. A production well is also located on the east end of the cooling towers. The production well is used to irrigate the LTU located on the east end of SEGS I, adjacent to the east Solar array.

The SEGS I Solar arrays cover approximately 73 acres of the Subject Property and the solar array piping contains Caloria HTF. At the time of the Subject Property visit, several Caloria HTF -stained areas within the solar arrays that were previously identified by Subject Property personnel had been excavated and transported to the LTU for treatment. Excavated areas observed ranged from 1-foot to 4-feet in depth, length, and width. Some remaining Caloria HTF -stained areas below the excavated areas were observed in the solar arrays. According to the Subject Property contact, these remaining areas were in the process of being addressed.

The SEGS I LTU is located on the east end of the SEGS I area and is used for storage and treatment of soil impacted with Caloria HTF. HTF-impacted soil is staged in the area north of the LTU, is screened for glass and debris, and then placed in the LTU for treatment. The glass and debris is stored on bare ground for later shipment off the property as hazardous waste. The pile is uncovered and there is no secondary containment preventing the pile to be spread around. A shed for storing microbes for treatment of HTF-impacted soil in the LTU is located north of the LTU. The size of the HTF impacted stockpile appeared to be about 15,000 cubic yards. Subject Property contacts indicated that stockpile had grown in size because of the increased remediation efforts in the SEGs I array field. The LTU was expanded in area to the south per the WDR permit to handle more impacted soils. Currently the amount of soil exceeds the permitted 7,170 cubic yard permitted limit.

South of SEGS I and east of the SEGS I cooling tower is an area that was formerly a LTU. Soils were excavated from the fire pit area and placed in this new, unpermitted LTU that was attempted to be amended to the WDR permit. Wooden stakes marking soil borings advanced under the direction of MWH were observed in this LTU area. The soils appeared clean with no odors. Debris from the remnant LTU sprinkler system was present in the surface soils. The LTU was sampled and reported in the quarterly monitoring reports to the Lahontan Regional Water Quality Board. However, the LTU was never formerly amended to the WDR permit.

The SEGS II Area is located in the southern portion of the Subject Property and consists of a control room, power block, solar arrays (north, south, east, and west), cooling towers, a material laydown storage area, a material warehouse, maintenance shop, fueling area, and the Therminol LTU. All operations at SEGS II, with the exception of the reverse osmosis (RO) and Therminol HTF pumps operation, have ceased since the turbine failed on June 16, 2014. Since then, the Therminol oil piping system from SEGS II has been reconfigured to connect to the SEGS I Power Block in order to provide heated Therminol HTF to the steam generator at SEGS I. A chemical injection building is located north of the control room. Chemical storage of steam treatment formulation and a biocide was observed on the outdoor concrete pad adjacent to the chemical injection building. The outdoor concrete pad was observed to be clean and in good condition. Water stains were observed on the

concrete floor of the chemical injection building. A 10-gallon drum of caustic was observed in the corner of the chemical injection building.

The HTF used at SEGS II is Therminol HTF. Excavated areas where Therminol HTF had stained the soil were observed below piping located northeast of the SEGS II Power Block. The majority of the power block is on concrete pads and within a concrete containment berm. A 55,000-gallon AST containing Therminol HTF is located within the SEGS II Power Block inside concrete containment. The containment was observed to be clean and in good condition. A mobile evacuation trailer is parked at SEGS II on a concrete pad with a berm adjacent to the location of the Therminol AST. Two 55-gallon drums of charcoal for the venting system were also observed on the pad. Stains were not observed on the concrete pad. An emergency generator is located northeast of the power block on a concrete pad. Rust staining, approximately 4-feet long, was observed on the concrete pad below the generator. The concrete below the generator appeared to be intact. A 475-gallon sulfuric acid tank and a 680-gallon sodium hydroxide tank are located on the west edge of the power block, both within concrete containments. At the time of the Subject Property visit, the containment areas appeared clean and in good condition. Drums of oil filters and anion and cation exchange resin beads were observed adjacent to the containment areas. A 75,000-gallon demineralized water tank is located by the steam generators in the north portion of the SEGS II Power Block. The turbine that failed on June 16, 2014 is located on the south end of the SEGS II Power Block. Transformers within concrete containment were also observed in this area of the SEGS II Power Block. At the time of the Subject Property visit, the containment appeared clean and in good condition.

A water treatment or RO Building on a concrete pad is located west of the steam generators and adjacent to the demineralized water tank. Plastic 55-gallon drums of anti-scalant were observed inside the building. Water was observed inside the building on the concrete pad.

Two drains are located at the SEGS II Power Block, one for the steam condensate and one near the turbine. Liquid captured from both drains lead to a pump located north of the control room. The liquid is pumped to the east and west evaporation ponds located on the southeast corner of the Subject Property.

A 20,000-gallon hazardous waste oil AST within a gravel and soil berm is located on the southwest corner of the SEGS II Power Block. This AST was formerly used for collecting oily water collected at the SEGS I and II Power Blocks. However, the facility has stopped this process and now oily water is collected in 55-gallon drums. This AST is kept for emergency purposes. Oil-stained soil was not observed within the containment area.

Trailers and containers used for parts and equipment storage are located south of the SEGS II Power Block. One trailer was formerly used as a glass shop until 2001/2002. Scrap metal and glass tubes were observed behind these trailers. Another trailer is used as a machine shop. Several 5-gallon buckets of lubricants, aerosols, and enamels were observed

inside the machine shop trailer. A septic tank is located just outside of the machine shop trailer.

The SEGS II Cooling Towers are located in the southwest corner of the Subject Property near the south east solar array. Two production wells for the LTU are located on the east and south sides of the cooling tower area. An elevated potassium hydroxide solution tank is located within concrete containment east of the cooling towers. Patching of the coating in the concrete containment was observed. A 4,000-gallon tank formerly containing sulfuric acid located adjacent to the potassium hydroxide tank was labeled as "triple rinsed" and closed on September 30, 2014. White precipitate was observed inside the concrete containment below the former sulfuric acid tank. The Subject Property contacts indicated the white precipitate was blowdown from the cooling towers. Concrete in the area appeared to be intact. A diesel tank for a fire pump at the SEGS II cooling towers on the northwest corner was observed inside concrete containment. The concrete was observed to be clean and in good condition.

The SEGS II solar arrays cover approximately 142 acres of the Subject Property and the piping contains Therminol HTF. A Therminol HTF odor was detected outdoors in the solar arrays at SEGS II. The LTU located on the south end of SEGS II and east of the SEGS II cooling towers is used for storage and treatment of soil impacted with Therminol HTF. Therminol HTF impacted soil is staged in an area east of the LTU and placed in the LTU for treatment. Some remaining oil stained areas were observed in the solar array. According to the Subject Property contact, these areas were already in the process of being addressed.

An unknown larger stockpile (approximately 2,000 cubic yards) was observed north of the SEGS II cooling towers. At first the Subject Property contacts were not aware what this stockpile contained or if it was clean treated soil taken off of the nearby LTU. Later, the Subject Property contacts determined that the larger stockpile was Therminol HTF impacted. On the Subject Property visit a week later, Westwood observed that these soils were being placed in the LTU for spreading.

A Hazardous Waste Storage Area is located on a concrete pad with a berm on the west end of a strip of land between SEGS I and SEGS II. Two storage containers are located on the concrete pad. Empty drums for oil and containers for rags were observed in the north storage container on the concrete pad. Storage of waste fluorescent lamps and spent batteries was observed inside the south container. In addition, new fluorescent lamps, concrete mix, paints, and bonding adhesive were observed inside this storage container. An aerosol can puncture and a drum for punctured aerosol cans was observed on the northwest corner outside of the south storage container. A container for used battery recycling and a pallet for electronic waste were observed on the southwest corner of the concrete pad. Flammable storage cabinets containing paints, epoxies, and coatings are located outside of the other storage container. Empty drums were observed adjacent to the west side of the concrete pad. Another concrete pad with a berm is located north of the storage containers. This pad is used for storing bins of broken mirrors collected from the solar arrays. The concrete pad was observed to be clean and in good condition. Out of service, empty poly tanks were observed north of the Hazardous Waste Storage Area.

A Welding Shop for repairing parts is located east of the hazardous waste storage area and in the middle of the Subject Property between SEGS I and SEGS II. Material storage of glass tubes and piping was observed outside of the welding shop. A tented storage area is located beside the Welding Shop. Boxes and a bucket of empty aerosol cans beside a flammables storage cabinet were observed in this area. Spray paint, cutting fluid, brake parts, cleaner, Zinc compound, and compressor oil were observed inside the flammables storage cabinet. Several 5-gallon buckets of masonry stucco brick paint were also observed on a pallet in the tented storage area. Additional outside parts storage was observed on the concrete just outside of the tented storage area. A shed containing miscellaneous parts is also located outside of the tented storage area. Primers were observed inside the shed. Another tented storage area for new glass tubes is located south of the shed.

A fenced Material Laydown and Storage Area, a Material Warehouse, a Maintenance Shop, an Equipment Staging Area, and a Fueling Area are located east of SEGS II.

The Material Laydown and Storage Area is fenced and is used for storage of broken and damaged equipment. Storage of 55-gallon drums of oil, charcoal product, and herbicide are located east of the material laydown and storage area on concrete bermed areas. A concrete pit to capture oil overflow is located in the corner of the oil product storage area. This area was clean and in good condition. Oil drum racks are located on opposite sides of the fence at the entrance to the Material Laydown and Storage Area. The concrete in this area appeared intact.

The Maintenance Shop is located southeast of the material laydown and storage area. Containers for empty aerosol cans and oil absorbent were observed. Flammable storage cabinets containing cutting fluid, brake fluid, and rust preventative were observed inside the maintenance shop. The concrete floor was observed to be dusty but intact. Drums for waste oil filters and spill kits were also observed outside of the machine shop. Equipment was observed parked and stored outside of the machine shop. Concrete areas appeared to have oil staining less than 1-foot by 1-foot in area and cracking less than 1-foot long. A used-oil AST within concrete containment is located behind the maintenance shop. The containment was observed to be clean and in good condition. Miscellaneous parts storage was observed in a covered area behind the maintenance shop. Compressed air tanks were also observed in this area.

A Material Warehouse used for parts and equipment storage is located west of the maintenance shop. Flammable storage cabinets containing paints, lubricants, starting fluid, brushable ceramic, and contact cleaner were observed in the southeast corner of the material warehouse. Germicide bleach and streak-free glass cleaner was observed on shelves. A storage shed for miscellaneous parts is located south of the maintenance shop.

A Fueling Area with one diesel AST and one unleaded gasoline fuel tank within a concrete containment berm is located further south of the maintenance shop. The concrete appeared to be intact. Equipment vehicles used at the facility are parked on the unpaved area south of the fueling area. These vehicles were formerly parked in an equipment staging area adjacent to the SEGS II south solar array. Excavated areas where soil was removed due to motor oil staining were observed in this area. Broken asphalt was also observed in this area. Subject Property contacts indicated the soil from this area was taken for disposal at a thermal treatment facility. After thermal treatment the soils were brought back to the Subject Property and placed in the clean soil stockpile located on the other side of the fence east of the Caloria LTU.

#### 6.4 Potable Water Supply

Potable water comes from the production wells located on the Subject Property.

#### 6.5 Sewage Disposal System

The Subject Property generates sanitary wastewater from lavatories and sinks. Sanitary wastewater is discharged to septic tanks at SEGS I and SEGS II. Three septic tanks are serviced by Burns Septic and Sewer.

#### 6.6 Hazardous Substances and Petroleum Products

The Subject Property is permitted as a large quantity generator of hazardous wastes under EPA ID CAL000344479. Hazardous and universal wastes at the Subject Property include the following:

Used lead batteries Used HTF filters Used charcoal Impacted HTF soil/debris HTF-impacted insulation Used aerosol cans Oily rags Broken mirror glass Used oil Oil/water mix Heptane/water mix

In general, 55-gallon drums were observed in satellite areas for hazardous waste storage at various locations at the Subject Property. The Subject Property has a designated Hazardous Waste Storage Area located between SEGS I and SEGS II on a concrete pad with a berm. Materials in this area are discussed in previous sections.

Safety procedures are in place for handling HTF spills to soil at the Subject Property. The Subject Property is permitted to store and treat-HTF-impacted soil from SEGS I and SEGS II within the LTUs under RVVQCB Order No.'s 6-96-160 and 6-96-160A1 and Waste Discharge ID (VVDID) 6B36455001. They are designated as Class II LTUs and are sampled on a semi-annual basis. The results are reported in the corresponding quarterly groundwater monitoring reports.

#### 6.7 Storage Tanks

The following storage tanks were reported at the Subject Property during the Subject Property reconnaissance. Active aboveground storage tanks at the Subject Property include the following:

TANK DESCRIPTION	VOLUME (gals
CaloriaHTF	30,000
HTF Red Storage Tan	10,080
Solar Array Pressure Relief Tank	1,000
Aqueous film-forming foam AFFF)	1,500
Diesel Fuel Tanl	300
Sulfuric Acic	4,000
Potassium Hydroxide	300
Therminol HTF	55,000
Day Tank Waste	20,000
Sulfuric Acid	475
Sodium Hydroxide	685
Solar Array Pressure Relief Tank	1,000
Diesel Fuel	282
Sulfuric Acid	4,000 (Triple rinsed and closed on 9/30/14)
Potassium Hydroxide	300 (Recently closed)
Used Oil Tanl	300
Diesel Fue	1,000
Gasoline	1,000
Gasoline	500
	Caloria HTF HTF Red Storage Tanl Solar Array Pressure Relief Tank Aqueous film-forming foam AFFF) Diesel Fuel Tanl Sulfuric Acic Potassium Hydroxide Therminol HTF Day Tank Waste Sulfuric Acid Sodium Hydroxide Solar Array Pressure Relief Tank Diesel Fuel Sulfuric Acid Potassium Hydroxide Used Oil Tanl Diesel Fue Gasolinc

The tanks listed above were all observed within secondary containment. The secondary containment areas were generally observed to be clean and in good condition. The Subject Property has a Spill Prevention Countermeasures and Control (SPCC) Plan as required by Title 40 of the Code of Federal Regulation, Part 112, for its bulk oil storage tanks. The SPCC Plan was prepared in March, 2010 and updated on August 20, 2014.

#### 6.8 Odors

A pungent odor emanated from some of the recent Therminol HTF remediation excavations currently in progress. No other noxious and/or pungent odors on the Subject Property were detected by Westwood during the Subject Property reconnaissance.

### 6.9 Pools of Liquid

No pools of liquid likely to contain hazardous substances or petroleum products on the Subject Property were observed by Westwood during the Subject Property reconnaissance.

#### 6.10Drums

See Section 6.3.

### 6.11 Electrical or Hydraulic Equipment

Utilities and services provided to the Subject Property include the following:

- Electricity:Southern California Edison
- Natural Gas:Southern California Gas Company
- Wastewater:Septic Tank serviced by Burns Septic & Sewer
- Solid Waste:Burrtec

The Subject Property generates electricity via the SEGS II solar arrays and SEGS I power block. Electrical lines connect to the power block. High volatage transmission lines owned by Southern California Edison cross the Property between the SEGS II west solar array and the evaporation ponds. No pole-mounted electrical transformers or underground hydraulic equipment were observed on the Subject Property during the Subject Property reconnaissance.

#### 6.12Exterior Observations

The Subject Property is entirely occupied by the electric generating plant. Most of the property is covered by sand and gravel with gravel roads to reduce dust. An asphalt paved road enters the Property on the east side to the Administration Office located in the SEGS I Power Block area. Some desert vegetation exists in the high voltage transmission line corridor between SEGS II and the evaporation ponds. There is very little vegetation on the property except for a small garden near the offices. The Property is flat with minor slopes down elevation to the northeast.

### 6.12.1 Pits, Ponds, or Lagoons

Three evaporation ponds (north, east, and west, Exhibit 2) are located on the southeastern corner of the Subject Property, adjacent to and east of Sunray Lane. These ponds are used to collect wastewater generated from SEGS I and SEGS II. The larger North Pond is 11.5 acres in size, and the East and West Ponds are 4.5 acres each. The North Pond is not in operation. At the time of the Subject Property visit, the liner in the north pond was observed to be torn, the pond was dry, and white salty looking deposits on the soil were

observed in the pond area. The east and west ponds were in operation. Wastewater and white salt deposits on the soil were observed in both the east and west ponds. The liner in the east and west ponds appeared to be intact. Birds were observed in the east pond. Three monitoring wells are located on the north, east, and south sides of the evaporation pond area. Sumps and access boxes are located along the edges separating the ponds. The sump to the east pond was opened and observed to not contain water.

#### 6.12.2 Stained Soil or Pavement

HTF or fuel stained soil was observed in numerous areas during the Subject Property reconnaissance. The stained soil came from spills or leaks in the solar arrays as well as equipment leaks from parked or decommissioned equipment and vehicles located south and southwest of the maintenance garage. Cogentrix Subject Property personnel were actively remediating these areas during the reconnaissance. Soil from the array and Power Block areas were actively being excavated and placed in their respective stockpiles. Subject Property personnel indicated additional excavation is planned for the stained soils in the former equipment staging area adjacent to the SEGS II south solar array and also located west and southwest of the maintenance garage.

#### 6.12.3 Stressed Vegetation

No areas of chemically stressed vegetation were observed by Westwood on the Subject Property.

#### 6.12.4 Possible Fill Material or Buried Solid Waste

Evidence of buried waste (soil settling, partially buried other wastes) were not observed during Subject Property reconnaissance. The origin and composition of all the bermed areas appears to be native soil.

#### 6.12.5 Solid Waste and Unidentified Substance Containers

Solid waste from the offices is placed in dumpsters located on the Subject Property. No other surface solid waste disposal, including unidentified substance containers, was observed by Westwood on the Subject Property.

#### 6.12.6 Wastewater

The Subject Property generates wastewater from the SEGS I and II Power Blocks. The Subject Property is permitted under California Regional Water Quality Control Board Order No. 6-96-160A1, WDID 6B36455001, to discharge wastewater generated at the SEGS I and SEGS II Power Blocks to the evaporation ponds.

#### 6.12.7 Wells

There are five groundwater production wells at the Subject Property (depicted on Exhibit 2). They are located at the SEGS 1 Power Block, SEGS 1 Cooling Towers, SEGS 2 Power Block, and SEGS 2 Cooling Towers (2 wells). In addition, three groundwater monitoring wells MW-1A, MW-3A, and MW-4A are located north and east of the evaporation ponds.

According to information from previous environmental reports, the Subject Property had 4 other monitoring wells located around the evaporation ponds. Monitoring wells MW-1 through MW-4 were installed by Dale Hinkle in July 1986. Declining water levels had severely impacted the effectiveness of the groundwater wells to detect potential leakage from the evaporation ponds. The original wells were properly abandoned in November 2001 and subsequently replaced with the existing wells. According to the quarterly report, groundwater in MW-1A, MW-3A, and MW-4A measured between 165 and 171-feet below ground surface on September 25, 2014.

#### 6.12.8 Septic Systems

Two septic tanks were observed on the Subject Property by each of the office buildings in the Power Block area. There is another septic system/tank south of the SEGS II Power Block area.

#### **6.13Interior Observations**

See Section 6.3.

#### 6.13.1 Heating and Cooling System

See Section 6.3.

#### 6.13.2 Stains or Corrosion

See Section 6.3.

#### 6.13.3 Drains and Sumps

See Section 6.3.

#### 6.14Adjoining Property Observations

The Land use in the area is mixed agricultural and industrial. Farmland exists north and east of the Subject Property. NRG Cool Water (an electrical generating station located at 37000 Santa Fe Road) and its associated evaporating ponds are located west. A fenced off area was observed south of the evaporation ponds with a monitoring well located in the northwest corner of this property.

#### 7.0 INTERVIEWS

#### 7.1 Landowners

According to information supplied to Westwood, the Subject Property is currently owned by Cogentrix. The Subject Property is primarily used for electric generation. A Phase I ESA USER Questionnaire was provided to and completed by John Collins, Richard Neff, Cheryl Sawyer, and Francisco Ruelas as the USER's representatives of the Subject Property. The results of the interview can be found above in the Subject Property Reconnaissance section.

#### 7.2 Key Subject Property Managers

Cogentrix personnel interviewed for the Subject Property included:

Name	Title	Note
John Collins	Vice President, M&A and Development	
Richard Neff	Senior Vice President – Environment, Health & Safety	
Francisco Ruelas	Environmental, Health and Safety Coordinator, Cogentrix	With the facility since 2001
Cheryl Sawyer	Manager, Environmental, Health and Safety, Cogentrix.	With the Company since 1988
Additional on-site personnel interviewed included		
Bob Lawrence	Maintenance Manager	With the facility for 18 years
Brad Bergman	Facility Manager	

#### 7.3Occupants

The facility is operated 24-hours per day and seven days per week by Cogentrix Subject Property personnel.

#### 7.4 Local Government Officials

Joe Morris, from the city of the Daggett Volunteer Fire Department, was interviewed by phone for information regarding the Subject Property on 8-11-15. They oversee fire calls in the area surrounding the Subject Property. Joe was not aware of any environmental conditions regarding the Subject Property other than the 1999 Caloria HTF tank fire. Joe indicated that he had no knowledge of any recent incidents indicative of an environmental condition associated with or near the Subject Property. He had no additional information regarding the Subject Property. No other local government officials were interviewed about the Subject Property.

John Stuede, case manager for the Subject Property with the California Lahontan Regional Water Quality Control Board, was contacted on July 1, 2015. He indicated that all previous environmental issues, spills etc. have been taken care of and historical files are located in either the Victorville or Sacramento offices. His files go back to 2013 and have been uploaded into the California State Waterboards GeoTracker internet site. Mr. Stuede indicated the MWH is currently working on a closure plan for the evaporation ponds. He does not know of any outstanding issues with the LTUs or the recent reportable (greater than 42 gallons) spills at the Subject Property.

#### 8.0 LIMITATIONS, DEVIATIONS, AND DATA GAPS

Westwood based the findings and conclusions of this Phase I ESA on the procedures described in ASTM Standard E1527-13, information and observations collected during those procedures, and Westwood's interpretation of that information. The findings of this Phase I ESA are limited to the specific Subject Property described in this report, and by the accuracy and completeness of information provided by others.

A Phase I ESA does not entirely eliminate uncertainty regarding the potential for RECs in connection with the Subject Property. Performance of ASTM Standard E1527-13 is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Subject Property within reasonable limits of time and cost. For this Phase I ESA, Westwood applied the degree of care and skill ordinarily exercised under similar conditions by reputable members of the environmental profession within the Subject Property. No warranty or guarantee, expressed or implied, is made.

Several caveats are inherent in conducting this or any other environmental due diligence examination:

- 1. It is difficult to predict which, if any, identified potential problems will become actual problems in the future. Federal and state regulations continually change as do the enforcement priorities of the applicable government agencies involved.
- 2. There is always the possibility that sources of future environmental liability have yet to manifest themselves to the point where they are reasonably identifiable through an external investigation such as the one conducted for this assessment.
- 3. The results of Westwood's investigation represent the applications of a variety of technical disciplines to material facts and conditions associated with the Subject Property. Many of these facts and conditions are subject to change over time. Therefore, the findings and opinions expressed within this document must be viewed in this context.
- 4. Westwood is not responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed.
- 5. Properties adjoining the Subject Property were only unobtrusively and visually inspected. Westwood cannot be held responsible for identifying conditions on adjoining properties that were not conspicuous at the time of the Subject Property reconnaissance.

Westwood did not make intentional deviations, exceptions, or deletions from ASTM Standard E1527-13 in conducting this Phase I ESA. However, the following limiting conditions were encountered:

1. Historic information sources were not readily available for intervals of five years or less since the time of the first developed land use.

The following information is not contained in the ASTM Standard E 1527-05 and is not included in this Phase I ESA report:

• Asbestos Containing Building Materials

- Wetlands
- Industrial Hygiene
- Radon
- Regulatory Compliance
- Health and Safety
- Lead-Based Paint
- Cultural and Historic Resources
- Ecological Resources
- Lead in Drinking Water
- Indoor Air Quality
- Endangered Species
- Biological Agents
- High Voltage Power Lines
- Mold

This Phase I ESA does not include any testing or sampling of materials (e.g., soil, water, air, or building materials). Cemeteries are excluded from this assessment. The identified limitations and data gaps did not affect the Environmental Professional's ability to render opinions regarding conditions indicative of a release or threatened release.

#### 9.0 FINDINGS

Westwood's findings identify known or suspect RECs, HRECs, CRECS and de minimis conditions. De minimis conditions generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not RECs. Use of the Subject Property for residential farmsteads, cultivated crops, and livestock are generally considered de minimis conditions.

Westwood makes the following findings on this Phase I ESA based from the evaluation:

- 1. 1 Federal NPL site
- 2. 1 Federal CERCLIS
- 3. 1 Federal CERC NFRAP
- 4. 2 Federal CORRACTS
- 5. 1 Federal RCRA-TSDF
- 6. 1 Federal RCRA-LQG generator
- 7. 1 US Eng Controls
- 8. 1 US Inst Control
- 9. 16 Federal ERNS

- 10. 1 CA Envirostor
- 11. 1 CA LUST
- 12. 1 CA UST
- 13. 2 CA WMUDS/SWATUST
- 14. 4 CA Hist UST
- 15. 2 CA SWEEPS UST
- 16. 14 CA CHMIRS
- 17. 1 CA LDS
- 18.1 CONSENT
- 19.1 FINDS
- 20. 2 CA NPDES
- 21.1 CA Hist CORTESE
- 22. 1 NY MANIFEST
- 23. 1 CA ENF
- 24. 1 CA San Bern. Co. Permit
- 25. 3 CA HAZNET
- 26. 1 CA EMI
- 27. 2 CA WDS
- 28. 1 CA HWP
- 29.1 US AIRS
- 30. Caloria HTF releases
- 31. Caloria-contaminated soil stockpile
- 32. Unpermited Caloria LTU
- 33. Mirrors containing lead paint or coating known to be hazardous
- 34. Caloria storage tank fire
- 35. Therminol HTF release
- 36. Therminol-contaminated soil stockpile
- 37. Fueling area with ASTs
- 38. Evaporation ponds for site process water.

#### **10.0 OPINIONS**

#### 10.1 Identified Sites of Environmental Concern

EDR identified records of listed sites of potential concern occurring within one mile of the Subject Property as indicated in the report contained in Appendix B. Of these, the following findings were of note and are discussed in the paragraphs below:

#### **10.1.1 Subject Property**

The Subject Property address was identified in 12 databases in the EDR Report as listed below.

Site Name	Property Database
35100 Santa Fe Street	California Hazardous Material Incident Reporting (CHMIRS); Emergency Response Notification System (ERNS); CA Waste Discharge System (CA WDS); FINDS; US Aerometric Information Retrieval System (AIRS); CA Emissions (EMI);
Sunray Energy, Inc.	CA HAZNET
35100 Santa Fe POB 373	ERNS
SEGS I & II Daggett	CA Waste Discharge System (CA WDS)
Daggett SEGS I & II	CA CHMIRS; CA WDS
Sunray Energy — SEGS I & II	Facility Index System/Facility Registry System (FINDS); US AIRS
Daggett Leasing Corp.	CA EMI; CA CHMIRS
Sunray LLC	CA National Pollutant Discharge Elimination System (NPDES); CA San Bernardino County Permit
35100 Santa Fe Solar Electric	CA CHMIRS
2A South Field	CA CHMIRS
SEGS I Solar Field	CA CHMIRS
35100 Santa Fe St. SEGS 2 — 8R	CA CHMIRS
Daggett Leasing	CA CHMIRS
SEGS I & II — Three Surface Impoundments	CA CHMIRS; CA Land Disposal Sites (CA LDS); CA Enforcement (CA ENF); CA Waste Management Unit Database System (VVMUDS/SVVAT)

The Subject Property's address is listed multiple times in the CHMIRS database for the following hazardous material incidents:

- April 8, 1994 80-gallon Caloria HTF spill from a structure fire.
- June 3, 1994—150-gallon Therminol HTF spill caused by flex hose failure.
- June 20, 1994— 900-gallon Chevron HTF (Caloria) spill caused by failure of heat collection element weld flange.
- February 2, 1995 25-gallon oil spill due to valve failure.

- February 10, 1995 100-gallon transfer oil spill due to gasket equipment failure.
- March 3, 1995—15-gallon Chevron HTF (Caloria) spill reported due to a heat collection pipe element weld failure.
- March 14, 1995— 100-gallon Therminol HTF spill due to set of isolation valves being left open allowing fluid to spill to ground.
- March 18, 1995 30-gallon HTF spill due to failure of a relief valve;
- September 19, 1995- 200-gallon Chevron transfer oil (Caloria) spill.
- March 3, 1996 50- to 75-gallon Caloria HTF spill due to a flex hose failure.
- December 13, 1997— Unreported amount of Therminol HTF spilled due to equipment failure.
- January 16, 1999— 300-gallon Therminol HTF spill caused by improper valve lineup resulting in a tank overflow to soil.
- March 27, 2002 100-gallon oil spill resulting from equipment failure.
- November 26, 2010— Unreported quantity of Therminol HTF release into a containment area caused by gasket on bypass valve failing.
- March 6, 2014 200-gallon mineral oil spill due to a mechanical failure; the caller reported that the Site was handling ongoing cleanup and that no waterways were impacted.
- January 1, 2015— 100-gallon Therminol HTF spill caused by one employee leaving several valves in the open position while another employee, not knowing the status of the valves, pressurized the system. Employees used the evacuation "evac" trailer to recover the released substance. It was unknown as to how much of the release was recovered. No waterways were impacted and the staff was in the process of conducting an internal investigation to determine the extent of the release and a more thorough cleanup.

The Subject Property's address is listed in the HAZNET database for hazardous waste manifests from 2009 through 2013 for the following waste categories:

- Impacted soil from site clean-up;
- Waste oil and mixed oil;
- Unspecified oil-containing waste;
- Other inorganic solid waste;
- Unspecified aqueous solution;
- Other organic solids; and
- Laboratory waste chemicals.

The Subject Property is listed in ERNS database for the following emergencies:

- March 8, 1994 100-gallon Caloria HTF spill from failure of the solar collector assembly flange and a fire ensuing.
- September 24, 2014—100-gallon oil spill to land.

- June 2, 1994 -150-gallon Therminol HTF spill to soil caused by flex hose failure.
- June 19, 1994— 900-gallon HTF spill caused by failure of heat collection element weld flange.
- February 9, 1996— Unknown amount of oil spilled to soil due to valve failure on solar header.
- March 9, 1996 Leak from a flex hose.
- December 13, 1997 Therminol HTF spill to soil due to flange failure caused by frozen solar field.
- January 16, 1999— 300-gallon Therminol HTF spill caused by improper valve lineup resulting in a tank overflow to soil.
- March 27, 2002— 100-gallon Chevron HT oil (Caloria) spill to soil caused by failure of heat collection element weld; August 12, 2011- 200-gallon Caloria HTF spill to soil due to valve that was not fully closed.
- September 4, 2013—150-gallon Chevron HT oil (Caloria) spill to soil due to a tube separation (i.e. equipment failure) at SEGS I.
- March 6, 2014 200-gallon Chevron HT oil (Caloria) spill to soil; cause was not reported. September 24, 2014— 100-gallon oil spill to soil due to equipment failure.

The Subject Property is listed in the WDS database as a facility with a continuous or seasonal discharge that is under Waste Discharge Requirements. The non-contact cooling water is categorized as designated/influent or solid wastes that pose a significant threat to water quality due to high concentrations of contaminants of concern (those specifically for cooling towers are total dissolved solids, hardness, chlorides and other inorganic salts. Manageable hazardous wastes (e.g., inorganic salts and heavy metals) are also included in this category. The threat to water quality is described as moderate where a violation could potentially have a major adverse impact on receiving biota, cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Aesthetic impairment would include nuisance from a waste treatment facility. The complexity of the facility is listed as Category B, any facility having a physical, chemical, or biological waste treatment system, or any Class II or III disposal site, or facility without treatment systems that are complex. The Site is also listed in the WMUDS/SWAT database with the same description.

The Subject Property is listed in the WDS database as posing a minor threat to water quality whereby a violation of an RWQCB order could cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Its complexity is listed as Category C for facilities having no waste treatment systems.

The Subject Property is also listed in the FINDS database with facility information and "pointers" to other sources that contain more detail:

• Aerometric Information Retrieval System (AIRS), a repository for information regarding airborne pollution in the United States;

- United States Emission & Generation Resource Database (EGRID), a database that contains data on emissions and resource mix for every power plant and company that generates electricity in the United States;
- San Bernardino County Permit database as a large quantity generator of hazardous wastes with the current permit expiring December 31, 2015;
- Aboveground Petroleum Storage Act (APSA) program for 10,001 to 100,000gallon capacity, and under the Hazardous Materials program for having in inventory between 31 to 50 chemicals;
- LDS database as a land disposal site; and,
- ENF database for a staff enforcement letter dated October 16, 2014 indicating that spill reports be submitted to the Lahontan Regional Water Quality Control Board (RWQCB) for discharge incidents from October 5 and 12, 2014, respectively. Based on information from the RWQCB's Geotracker website, it appears these spill reports were submitted to the Lahontan RWQCB as requested.

The Subject Property is also listed in the following additional databases:

- AIRS for a compliance inspection with no date reported. The status of the inspection was listed as "In Compliance";
- EMI database for air emissions reported to the Mojave Desert Air Quality Management District from 1993 to 2012; and,
- NPDES database as being covered under General Permit CAS000001 for stormwater under Waste Discharge ID 6B36IO22476.

#### **10.1.2 Surrounding and Adjacent Sites**

The surrounding and adjacent sites were identified in the EDR Report as listed below are either considered plotted sites (those sites that could be located by the given address and are identified on the EDR Report Overview Map) or orphan sites (sites with insufficient address information such that they can only be identified within the zip code, city or county of the Subject Property). The proximities of the plotted and orphan sites to the Subject Property, along with the geologic characteristics of the area, could have implications relative to potential environmental impacts at the Subject Property.

The EDR search identified 11 plotted sites within a 1-mile radius of the Subject Property. The EDR search identified one orphan site. The sites with known or potential environmental impacts were too far away to have impacted the Subject Property; were located at a lower elevation than the Subject Property and thus not likely to impact the Subject Property; or had been remediated and were not likely to pose a threat to the Subject Property. The plotted sites are discussed in further detail below.

The Barstow Marine Corps Logistics Base, located within <sup>1</sup>/<sub>2</sub>- mile west of the Subject Property at an equal or higher elevation, is identified in the National Priorities List (NPL) database as a facility identified for priority cleanup under the Superfund Program. This site is also listed in the following environmental databases:

- Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) System that contains data on potentially hazardous waste sites;
- Corrective Action (CORRACTS) List of handlers with Resource Conservation and Recovery Act (RCRA) corrective action activity;
- US Engineering Controls (US ENG CONTROLS)- Listing of sites with engineering controls in place;
- US Institutional Control (US Inst. Control)- Listing of sites with institutional controls in place;
- CA ENVIROSTOR- Department of Toxic Substances Control (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database that identifies sites that have known contamination or sites for which there may be reasons to investigate further;
- Record of Decision (ROD) ROD documents mandate a permanent remedy at an NPL; CA Permitted Hazardous Waste (CA HWP) Detailed information on permitted hazardous waste facilities and corrective action cleanups tracked in EnviroStor.

This facility is currently on the NPL for trichloroethylene (TCE) affecting the groundwater pathway. The facility is in the Mojave Desert and adjacent to the Mojave River. A portion of the base, the 1,568-acre Nebo Area, has been used for maintenance, repair, and rebuilding of supplies and equipment for the Marine Corps since 1942. Solvent wastes, including TCE were generated in substantial quantities in the Nebo Area facility, as well as in the Yermo Area, 6 miles east of Nebo. Barstow Marine Corps Logistics Base is participating in the Installation Restoration Program (IRP), established in 1978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from hazardous materials. Based on analytical tests conducted in 1984 and 1985 as part of the IRP, and by the United States Geological Survey, monitoring wells at both Nebo and Yermo are impacted with TCE. Public wells within 3 miles of the base supply drinking water to an estimated 28,700 residents of the city of Barstow and outlying areas. An activated carbon system for treating impacted drinking water wells at Yermo has been operating since November 21, 1989. This facility is a large quantity generator of hazardous wastes and has received several notices of violations (NOVs) from 1987 to 1998 for general requirements related to generator, transfer, storage, and disposal (TSD) and land disposal. The facility has also received NOVs related to TSD closure/post-closure and groundwater monitoring.

The following engineering controls for impacted groundwater have been mandated at this facility: air sparging, carbon adsorption, containment, discharge, disposal, extraction, infiltration basin/trench, monitoring, natural attenuation, well head treatment. In addition for soil, the engineering controls of monitoring and soil vapor extraction (in-situ), and capping of soil were mandated.

Cool Water Generating is located within 0.5 miles southwest of the Subject Property at a lower elevation, is listed in the Leaking Underground Storage Tank (LUST) and the California Historical CORTESE (CA HIST CORTESE) databases for a leaking underground storage tank incidents for diesel contamination in soil. The case has been completed and closed as of October 23, 1989. EPTC Cool water with address listed as 37000 E Santa Fe St. is listed in the RCRA-TSDF, CERC-NFRAP, CORRACTS, RCRA-SQG, and CA WMUDS/SWAT.

#### 10.1.3 Orphan Sites

EDR has identified one orphan site, EDR ID 105960473: as Dagget Airport. (Barstow/Dagget Airport). Orphan sites are those for which accurate location information is missing or incomplete. A review of the information identified this site approximately one mile east of the Subject Property.

#### 10.2Recognized Environmental Conditions

The term *recognized environmentalconditions* means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the Subject Property or into the ground, groundwater, or surface water of the Subject Property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies.

The following RECs were identified in this Phase I ESA related the Subject Property.

#### **REC 1: Caloria HTF Use Area throughout SEGS I**

Evidence of Caloria HTF releases to soil was observed throughout the SEGS I Power Block and solar array. At the time of the Subject Property visit, most of these areas were excavated or in the process of being excavated. The excavated soils were removed or going to be removed for treatment in the LTU at SEGS I. Excavated areas observed ranged from 1-foot to 4-feet in depth, length, and width. Some remaining Caloria HTF -stained areas below the excavated areas were observed in the solar arrays. According to the Subject Property contact, these areas are still intended to be further excavated.

#### **REC 2: Caloria HTF Contaminated Soil Stockpile**

An approximately 15,000 cubic yard soil Caloria HTF contaminated stockpile had accumulated and is located on the north side of the SEGS I LTU. The stockpile is within the LTU however, it was not covered or bermed to prevent rainwater from infiltrating through the stockpile or run off the stockpile.

#### **REC 3:** Sifting/Storage Area for Lead Based Paint on Broken Mirrors

Broken mirrors and other debris are screened out of the soil at a station located just south of the stockpile in the SEGS I LTU. Some broken mirrors contain lead based paint and have been tested to be hazardous waste. The Subject Property contacts indicated that the mirror glass debris pile is loaded into a dumpster and taken off the Subject Property and disposed as hazardous waste. The broken mirror pile is uncovered and there is no secondary containment preventing the pile to be spread around.

#### **REC 4: Unpermitted Caloria HTF LTU**

An area of temporary soil storage for surficial soils removed from the Fire Pit area following the 1999 fire was discovered by Subject Property contacts east of the SEGS I cooling towers. Documentation has not been found regarding this soil removal and its placement in the area east of the SEGS I Cooling Towers. MWH review of GeoTrans historical monitoring reports indicated that between 2004 and 2014, total petroleum hydrocarbons (TPH) as Caloria HTF concentrations in samples collected from 1 to 5-feet below ground surface in the area east of the SEGS I cooling towers have ranged from nondetectable to 995 mg/kg (4th quarter 2006 at 3-feet below ground surface). According to the Subject Property contacts, GeoTrans had sampled the area east of the SEGS I cooling towers following the February 1999 fire. However, no older reports prior to the fourth quarter of 2004 were available for review. MWH has recently confirmed the presence of Caloria HTF impacted soil as documented in their June, 2015 Focused Subsurface Investigation Summary Report. The report indicated TPH was detected in soil boring samples within this area greater than the 100 mg/kg cleanup standard for the Subject Property and up to 5-feet below ground surface but no deeper than 10-feet below ground surface.

#### **REC 5: Caloria HTF Tank Fire February, 1999**

Based on the 2008 Phase I ESA prepared by TTEC, the SEGS I HTF Storage Area was the location of a catastrophic tank explosion, HTF release, heptane release, toluene release, and fire that occurred in February 1999. According to the Subject Property contacts, most of the spilled oil was consumed in the associated fire and remedial activities had been undertaken. However, validation results or closure documentation could not be provided. TTEC recommended that groundwater samples from the production well at the SEGS I Power Block be collected and analyzed.

According to TTEC's subsequent 2008 Phase II ESA, soil borings were advanced in the SEGS I Fire Remediation Area and concentrations of TPH-cc were detected above the 100 mg/kg cleanup limit. The extent was not defined. Also, very low levels of toluene (0.65  $\mu$ g/l were detected in one groundwater sample that was obtained from the production well located in the SEGS I Power Block.

According to MWH's Focused Subsurface Investigation Summary Report, Caloria HTF impacted soils were detected in soil boring samples at concentrations greater than the 100 mg/kg compliance cleanup standards for the Subject Property. The soil contamination

reached to depths of up to 35-feet below ground surface and the areal extent was contained within the HTF storage area berm. Deeper soil borings were advanced under the direction of MWH in July. Information provided in the Cogentrix Sabertooth data room indicated that the contamination did not extend deeper than 40-feet.

#### **REC 6: TherminolHTF use Area throughout SEGS II**

Evidence of Therminol HTF releases to soil was observed throughout the SEGS II Power Block and Solar array. At the time of the Subject Property visit, most of these areas were excavated or in the process of being excavated. The excavated soils were removed or going to be removed for treatment in the Therminol LTU at SEGS II. Excavated areas observed ranged from 1-foot to 4-feet in depth, length, and width. Some remaining HTF -stained areas below the excavated areas were observed in the solar arrays. According to the Subject Property contact, these areas are still intended to be further excavated.

#### **REC 7: Therminol HTF Contaminated Soil Stockpile**

An unknown approximately 2,000 cubic yard stockpile had accumulated and is located north of the SEGS II cooling towers. The stockpile is not within the LTU and, it was not covered or bermed to prevent rainwater from infiltrating through the stockpile or run off the stockpile. On the second visit the following week, the stockpiled soils were being removed from this area and spread in the LTU.

#### **REC 8: Fueling Area with Gasoline / Diesel ASTs**

A fueling area containing gasoline and diesel fuel tanks are located on the east side of the Subject Property south of the garages. The use of the area since the 1980s to fuel Subject Property vehicles may be an area prone to numerous de minimis spills or releases into the subsurface.

#### **REC 9 Evaporation Pond 1 (North)**

The north evaporation pond which is not being used has a torn liner. Evaporative salts that accumulated from past use of the pond were observed and present in the soils in the pond area. A limited Phase II Investigation was performed by MWH in the north pond area in 2009. Concentrations of salt were detected in soil samples above the background concentrations. This information was presented to the Lahontan Regional Water Quality Board in a pond closure plan dated 2013. The closure plan was not approved because the salt deposits are above the natural background concentrations in the area. Additional testing was recommended by the Water Quality Board to assess if the elevated salts in the clay liner is naturally occurring from the source area.

#### **10.3Historical Recognized Environmental Conditions**

Historical RECs (HRECs) are those that were or would have been considered to be RECs in the past, but because of additional information or a change in conditions, may no longer be considered an REC.

No HRECs were identified in this Phase I ESA related the Subject Property.

#### **10.4Controlled Historical Recognized Environmental Conditions**

A Controlled REC (CRECs) is a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

No CRECs were identified in this Phase I ESA related the Subject Property.

#### 10.5*De Minimis* Conditions

A *de minimis* condition is one that generally does not pose a threat to human health or the environment and that would generally not trigger an enforcement action if brought to the attention of an applicable regulatory agency.

Numerous de minimis releases of HTF were reported in previous reports found in the Sabertooth data room and observed during the field reconnaissance for this Phase I within the SEGS I and II areas designated as RECs 1 and 6. These releases are being cleaned up as they are encountered. There is daily monitoring of equipment which provides prompt identification of a release so it can be contained and properly treated. De minimis conditions were observed at the equipment staging area identified as I on Exhibit 2.

#### 10.6Additional Items

No additional items of environmental note were identified in this Phase I ESA concerning the Subject Property.

#### 11.0 CONCLUSIONS AND RECOMMENDATIONS

This Phase I has been prepared consistent with the scope and limitations of ASTM Standard E1527-13 and the contract with the USER. This Phase I ESA has revealed evidence of RECs associated with the Subject Property.

No HRECs or CRECs were identified on the Subject Property.

Nine RECS were identified and discussed in this report. They encompass some of the several RECS that were identified in the Phase I ESAs by MWH in February 2015, and TTEC in December 2008. Previous investigations and reports are found in the Sabertooth data room. These areas will be considered RECS until they meet the definition of HRECs or CRECs in ASTM E1527-13.

ID	Source of REC	Location	Note
REC 1	Caloria HTF use area	SEGS I	Numerous reported and de minimis releases of Caloria HTF were observed and reported.
REC 2	Caloria HTF contaminated soil stockpile	Northeast of SEGS I	Temporary stockpile of soil contaminated with Caloria HTF until it can be spread in the SEGS I Caloria LTU.
REC 3	Sifting/storage area for lead based paint on mirrors	East of SEGS I	Fragments of broken mirrors containing lead based paint are separated from soil by sifting and stored.
REC 4	Unpermitted Caloria HTF LTU	Between SEGS I and SEGS II (east)	An unpermitted Caloria HTF LTU was used.
REC 5	Caloria HTF Tank Fire	Center of SEGS I	A Caloria HTF storage tank fire occurred in 2-1999. Caloria HTF contamination was detected at 35-feet below ground surface.
REC 6	Therminol HTF use area	SEGS II	Numerous reported and de minimis releases of Therminol HTF.
REC 7	Therminol HTF contaminated soil stockpile	Southwest of SEGS II	Temporary stockpile of soil contaminated with Therminol HTF until it can be spread in the SEGS II LTU.
REC 8	Fueling area with above ground storage tanks (ASTs)	East of SEGS II	Gasoline and diesel ASTs are used to fuel equipment on the Subject Property.
REC 9	Evaporation pond 1 (north)	Southeast corner of the Subject Property	The liner in the north evaporation pond is torn. Metals and salts have accumulated and are concentrated under the evaporation pond liner. Concentrations of salt were detected by MWH in soil samples above the background concentrations.

The following de minimis or other conditions were observed on the Subject Property. They generally do not present a threat to human health or the environment but could be improved by using best management practices.

Numerous non-reportable releases of HTF were documented in previous reports found in the Sabertooth data room.Staining from such releases was observed during the field reconnaissance for this Phase I within the SEGS I and II areas designated as RECs 1 and 6. These releases are curently being cleaned up as they are encountered. There is currently daily monitoring of solar

array equipment that provides prompt identification of a release so it can be contained and properly treated. De minimis conditions were observed at the equipment staging area identified as I on Exhibit 2.

The RECs identified above warrant additional investigation and are currently being assessed with soil borings in a Westwood Phase II ESA and additional due diligence activities. The Westwood Phase II ESA consists of exploratory soil borings to address each of the RECs identified above. Additional due diligence activities that will be conducted or have recently been conducted will consist of:

- Ongoing file review as data is uploaded into Cogentrix's Sabertooth internet data base
- Interviews with Cogentrix's environmental staff, and
- Interviews with the California Lahontan Regional Water Quality Board.

#### **12.0 REFERENCES**

ASTM International. 2013. ASTM Practice E Practice E 1527-13. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

Bortugno, E.J. and T.E. Spittler. 1986. Geologic Map of the San Bernardino Quadrangle, California Department of Conservation, Mines and Geology Map Number 3A.

EDR (Environmental Data Resources Inc.) 2015. <u>http://www.edrnet.com</u>.

U.S. Environmental Protection Agency. 2005. 40 CFR Part 312. Standards and Practices for All Appropriate Inquiries; Final Rule.

USGS (U.S. Geological Survey). 1974. National Hydrography Dataset, http://nhd.usgs.gov.

#### **13.0 ENVIRONMENTAL PROFESSIONAL STATEMENT AND QUALIFICATIONS**

We declare that, to the best of our knowledge and belief, we meet the definition of Environmental Professionals as defined in 40 CFR Part 312.10. We have the specific qualifications, education, training, and experience to assess the nature and histories of properties in conformance with the standards and practices set forth in 40 CFR Part 312. Resumes are available upon request.

Name	Degrees	Years of Experience	Licenses and Certifications	Role on Project
Tom Braman	BS, Biology	25	WDC	Report, Exhibit Preparation, Peer Review Quality Assurance
Kate Kleiter	MS, Geology BS Geophysics	27	PG	Subject Property Reconnaissance, Report and Exhibit Preparation
Eric Hansen	BS, Geo-Engineering BS, Geology	28	PE, PG	Peer Review Quality Assurance

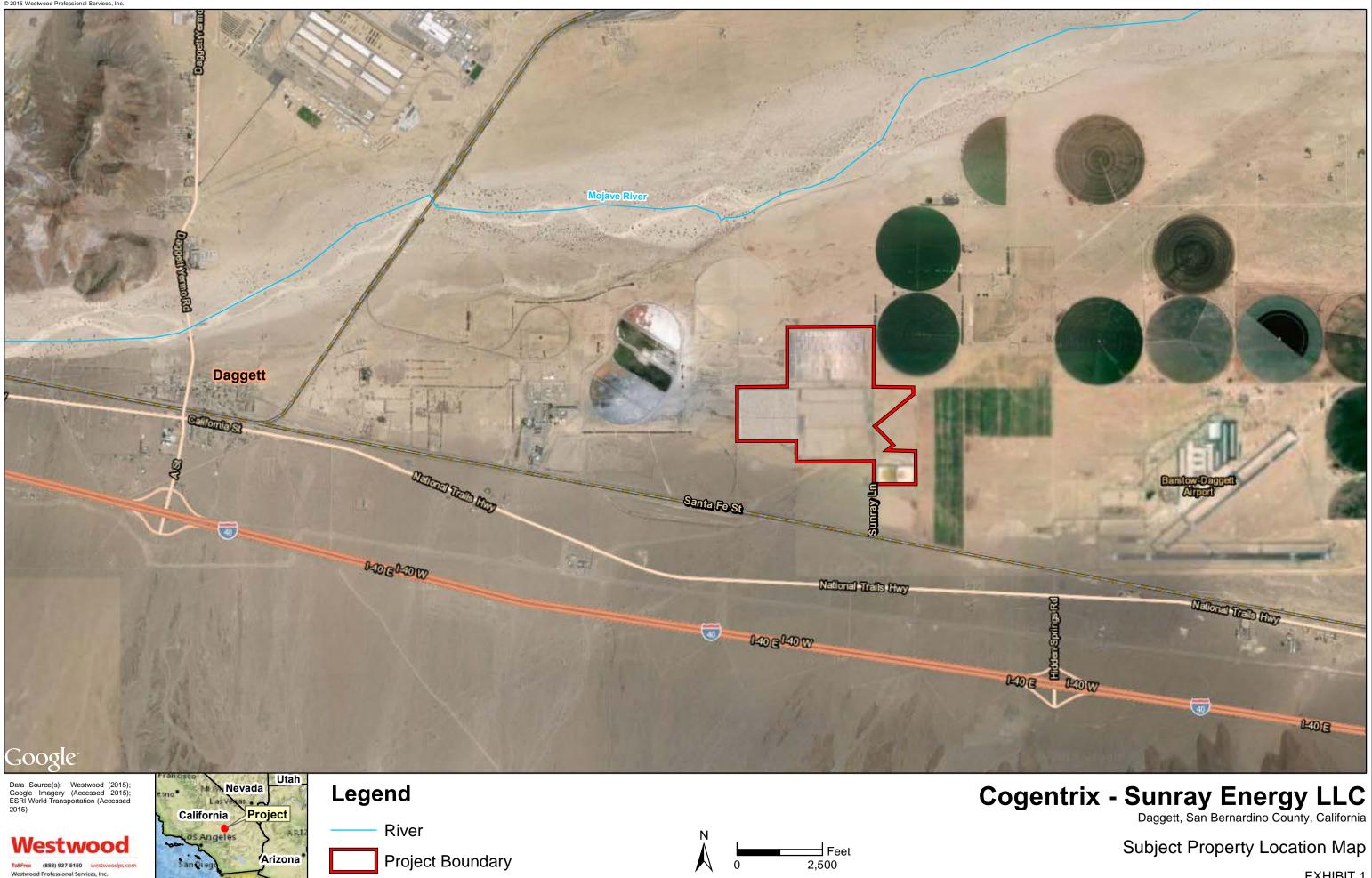
#### Table 13.1: Qualifications of Environmental Professionals

Prepared and Reviewed by:

Tom Braman Senior Environmental Scientist

Kathryn J. Kleiter Senior Environmental Scientist

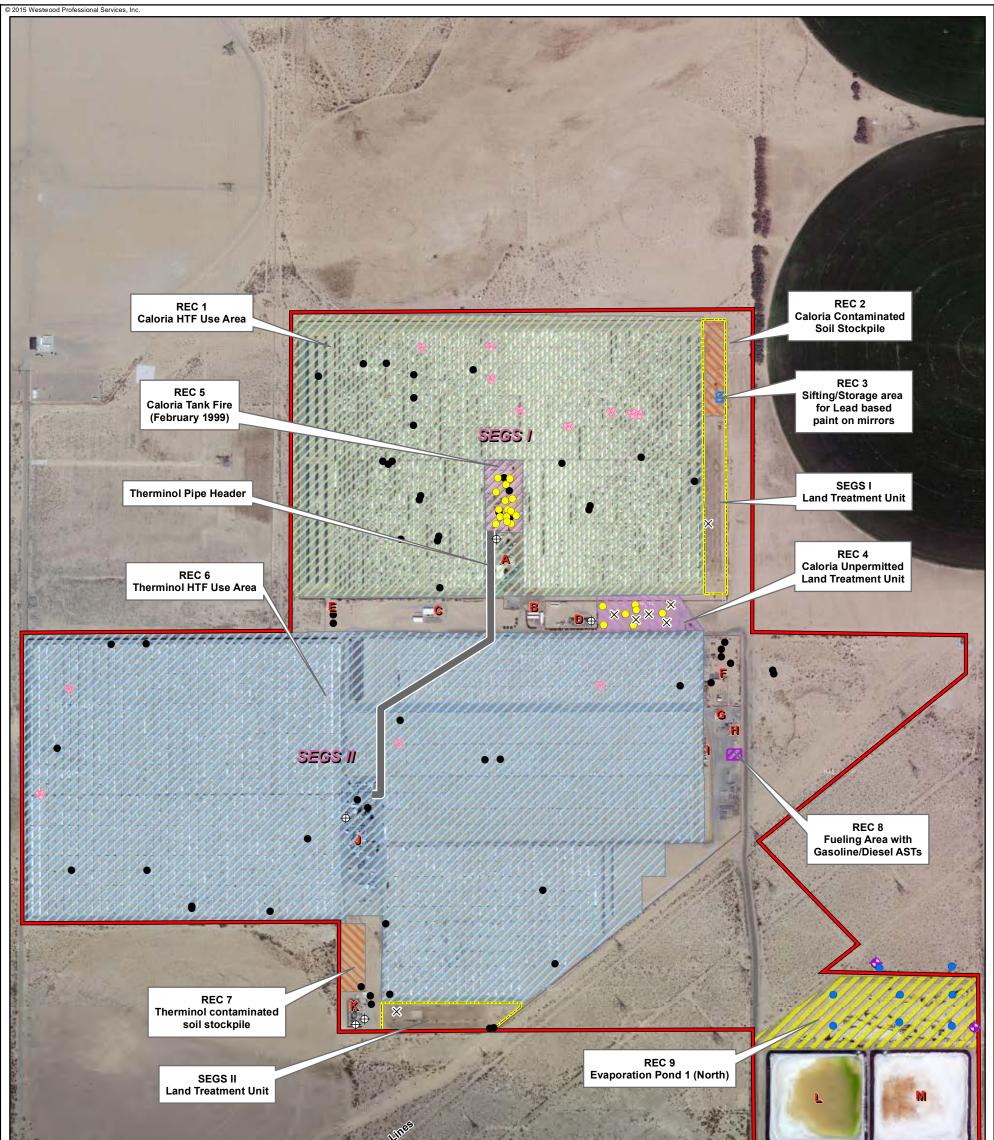
#### **EXHIBIT ONE** Subject Property Location



Tuvana

EXHIBIT 1

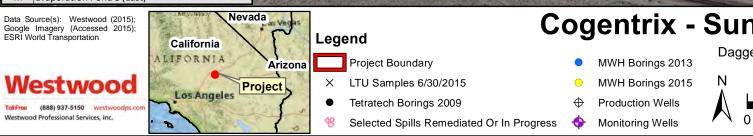
#### EXHIBIT TWO Subject Property Map



Industrial Area
SEGS 1 Office & Power Block
Office
Welding Shop & Remediation Tents
SEGS 1 Cooling Towers
Less Than 90 Day Hazardous Waste Storage Area
Material Laydown & Storage Area
Material Warehouse
Maintenance Shop
Equipment Staging Area
SEGS 2 Power Block
SEGS 2 Cooling Towers

- Evaporation Pond 2 (West) L
- Evaporation Pond 3 (East) М

Toll Free



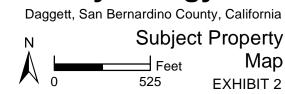
Santa Fe St

Ansmission Lines

TransmissionLines

# **Cogentrix - Sunray Energy LLC**

Sunray Ln



APPENDIX A Questionnaires Fire Department interview

August 11, 2015

Re: Interview Request for Phase I ESA, Sunray project Daggett, CA

Tom Braman called Beryl Bell general manager / book keeper and manager.

We are requesting information for the preparation of a Phase I Environmental Site Assessment in connection with the environmental review record for the +300 acre Cogentrix Sunray Energy LLC SEGS I and II facility at 35100 Santa Fe Road in Daggett, San Bernardino County, CA.

Please provide the following information:

1. Are you aware of the project facility?

Yes. Had knowledge of the area for a long time.

- Are you aware of any USTs at or near the project site?
   a. None known
- 2. Are you aware of any hazardous-material responses or other environmental concerns in the

project area?

Not known.

- 3. What station will provide service to this location?a. They could serve if called. They are first responders
- 4. Are you aware of any fire response calls to the facility at this location?a. Not known.

# PHASE I ENVIRONMENTAL SITE ASSESSMENT PROPERTY OWNER/MANAGER QUESTIONNAIRE

#### PARCEL INFORMATION

Project Name:	Sunray
Project Number:	6575
Property/Landowner Name:	Sunray Energy 2, LLC
Address:	35100 Santa Fe Street, Daggett, CA 92327
Legal Description:	<u>APN: 0516-341-14-0-000</u>
Acres:	~332.98
Interviewer:	Westwood Professional Services
	Westwood Interviewer Attn: <u>KK</u>
	Westwood Phone:,
Interviewee: Cheryl Sawyer	Corporate EHS oversight of the facility.
	(Owner? Yes/No; Manager? Yes/No; Other?)
Phone:	757 238 2037
Date:	August 17, 2015

- 1. How long have you lived on, owned, operated or managed the property? Sunray was purchased by Cogentrix in 2009. Corporate oversight of the facility began at that time.
- 2. What is the property primarily used for (agriculture, ranching, other)? Electric Generation
- 3. Provide a brief description of how the property was used in the past (include dates of uses, etc.). No firsthand knowledge. Previous Phase I investigations list the prior use as agriculture.
- 4. Do you know of hazardous materials or hazardous substances that are present or once were present at the property? If YES, can you describe them and provide location(s)? Yes. Please refer to the information provided in the Sabertooth data room under Business Emergency Contingency Plan.
- 5. Are you aware of any chemical or petroleum product spills on the property (oil, gas, diesel, herbicides, pesticides, other farm chemicals. etc.) recently or in the past? If YES, what kind, how much, when did it happen, and where (locations)? Yes. Please refer to the information provided in the Sabertooth data room under spill reports.

- 6. Are you aware of any hazardous material releases on the property (like lead-based paint spills, asbestos, etc.) recently or in the past? If YES, what kind, how much, when did it happen, and where (locations)? Yes...previous Phase Ones note a sulfuric acid spill cleanup under the Water Board's jurisdiction prior to Cogentrix ownership, and numerous HTF spills. Please refer to the information in the Sabertooth data room.
- 7. Do you know if any hazardous substance or petroleum products, tires, automotive batteries, or any other waste materials have been dumped above ground, buried and/or burned on the property? If YES, what has occurred, where, and when? No first-hand knowledge. Previous Phase I investigations discuss an HTF fire in 1999; please refer to the data room for details.
- Do you know of any environmental cleanups that have taken place on the property? If YES, can you describe them? Yes. Sunray has been continually remediating HFT contacted soil throughout Cogentrix's ownership of the facility. Previous Phase I investigation reference similar activities that precede Cogentrix's ownership. Please refer to the Sabertooth data room for details.
- 9. Are you aware of any private water supply wells or irrigation wells currently located on your property? If yes, please provide the number of wells (if known) and a description of the well location(s) that includes the Property Identification Number (PIN) for the applicable parcel where the well is located, and a general description of where within the parcel the well is located (For example: 100 feet north of the existing house in the northwest corner of Parcel No.\_\_\_). Yes. There are 5 wells at the facility: One West of SEGS I Power Block, One East of SEGS I Cooling Tower, One East of SEGS II Power Block and two at the SEGS II Cooling Tower, one to the East and one to the South.
- 10. Are you aware of any above ground storage tanks on the property? If YES, what do they contain, how big are they, where are they located, and when were they at the property? (This includes gas or diesel storage tanks). **Yes. Data submitted under separate cover.**
- 11. Are you aware of any underground storage tanks or septic tanks on the property? If YES, what do they contain, how big are they, where are they located and when were they at the property? Not aware of any underground storage tanks on the property.
- 12. Are you aware of any environmental liens that are filed or recorded against the property under federal, state, local or tribal law? If YES, can you describe them? **Not aware of any liens.**
- 13. Are you aware of any activity or use limitations or restrictions on the property (such as engineering controls, institutional controls, etc.) which are or were filed or recorded under federal, state, local, or tribal law? (Activity and use limitations are legal or physical restrictions or limitations that affect access or use of a site. They can be restrictions of record on titles, zoning restrictions, easements, covenants, or physical barriers that reduce potential exposure to hazardous substances or petroleum products.) If YES, can you describe them? Not aware of any use limitations or restrictions.
- 14. Do you have any other knowledge or experience with the property that may be pertinent to the environmental condition of the property? **No.**
- 15. Are there other people available that might know more about the land use history and environmental condition of the property? **Francisco Ruelas, Cheryl Sawyer and John Collins**
- 16. Are you aware of any oil wells on your property, or oil and gas leases? No.
- 17. Other comments? None.

# PHASE I ENVIRONMENTAL SITE ASSESSMENT PROPERTY OWNER/MANAGER QUESTIONNAIRE

#### PARCEL INFORMATION

Project Name:	Sunray
Project Number:	6575
Property/Landowner Name:	Sunray Energy 2, LLC
Address:	35100 Santa Fe Street, Daggett, CA 92327
Legal Description:	<u>APN: 0516-341-14-0-000</u>
Acres:	~332.98
Interviewer:	Westwood Professional Services
	Westwood Interviewer Attn: <u>KK</u> ,
	Westwood Phone:,
Interviewee: C. Richard Neff	Corporate EHS oversight of the facility.
	(Owner? Yes/No; Manager? Yes/No; Other?)
Phone:	704-672-2818
Date:	August 14, 2015

- 1. How long have you lived on, owned, operated or managed the property? Sunray was purchased by Cogentrix in 2009. Corporate oversight of the facility began at that time.
- 2. What is the property primarily used for (agriculture, ranching, other)? Electric Generation
- 3. Provide a brief description of how the property was used in the past (include dates of uses, etc.). No firsthand knowledge. Previous Phase I investigations list the prior use as agriculture.
- 4. Do you know of hazardous materials or hazardous substances that are present or once were present at the property? If YES, can you describe them and provide location(s)? Yes. Please refer to the information provided in the Sabertooth data room under Business Emergency Contingency Plan.
- 5. Are you aware of any chemical or petroleum product spills on the property (oil, gas, diesel, herbicides, pesticides, other farm chemicals. etc.) recently or in the past? If YES, what kind, how much, when did it happen, and where (locations)? Yes. Please refer to the information provided in the Sabertooth data room under spill reports.

- Are you aware of any hazardous material releases on the property (like lead-based paint spills, asbestos, etc.) recently or in the past? If YES, what kind, how much, when did it happen, and where (locations)?
   Yes for Heat Transfer Fluid (HTF) only. Please refer to the information in the Sabertooth data room.
- 7. Do you know if any hazardous substance or petroleum products, tires, automotive batteries, or any other waste materials have been dumped above ground, buried and/or burned on the property? If YES, what has occurred, where, and when? No first-hand knowledge. Previous Phase I investigations discuss an HTF fire; please refer to the data room for details.
- 8. Do you know of any environmental cleanups that have taken place on the property? If YES, can you describe them? Yes. Sunray has been continually remediating HFT contacted soil throughout Cogentrix's ownership of the facility. Previous Phase I investigation reference similar activities that precede Cogentrix's ownership. Please refer to the Sabertooth data room for details.
- 9. Are you aware of any private water supply wells or irrigation wells currently located on your property? If yes, please provide the number of wells (if known) and a description of the well location(s) that includes the Property Identification Number (PIN) for the applicable parcel where the well is located, and a general description of where within the parcel the well is located (For example: 100 feet north of the existing house in the northwest corner of Parcel No.\_\_\_). Yes. There are 5 wells at the facility: One West of SEGS I Power Block, One East of SEGS I Cooling Tower, One East of SEGS II Power Block and two at the SEGS II Cooling Tower, one to the East and one to the South. Please see the information provided in the Sabertooth data room.
- 10. Are you aware of any above ground storage tanks on the property? If YES, what do they contain, how big are they, where are they located, and when were they at the property? (This includes gas or diesel storage tanks). **Yes. Please refer to the Sabertooth data room for details.**
- 11. Are you aware of any underground storage tanks or septic tanks on the property? If YES, what do they contain, how big are they, where are they located and when were they at the property? Not aware of any underground storage tanks on the property.
- 12. Are you aware of any environmental liens that are filed or recorded against the property under federal, state, local or tribal law? If YES, can you describe them? **Not aware of any liens.**
- 13. Are you aware of any activity or use limitations or restrictions on the property (such as engineering controls, institutional controls, etc.) which are or were filed or recorded under federal, state, local, or tribal law? (Activity and use limitations are legal or physical restrictions or limitations that affect access or use of a site. They can be restrictions of record on titles, zoning restrictions, easements, covenants, or physical barriers that reduce potential exposure to hazardous substances or petroleum products.) If YES, can you describe them? Not aware of any use limitations or restrictions.
- 14. Do you have any other knowledge or experience with the property that may be pertinent to the environmental condition of the property? **No.**
- 15. Are there other people available that might know more about the land use history and environmental condition of the property? **Francisco Ruelas, Cheryl Sawyer and John Collins**
- 16. Are you aware of any oil wells on your property, or oil and gas leases? No.
- 17. Other comments? None.

# PHASE I ENVIRONMENTAL SITE ASSESSMENT PROPERTY OWNER/MANAGER QUESTIONNAIRE

#### PARCEL INFORMATION

Project Name:	Sunray
Project Number:	6575
Property/Landowner Name:	Sunray Energy 2, LLC
Address:	35100 Santa Fe Street, Daggett, CA 92327
Legal Description:	<u>APN: 0516-341-14-0-000</u>
Acres:	<u>~332.98</u>
Interviewer:	Westwood Professional Services
	Westwood Interviewer Attn:KK
	Westwood Phone:,
Interviewee: Francisco	
Ruelas	(Owner? Yes/No; Manager? Yes/No; Other?)
Phone:	760-254-3381 ext.2180
Date:	August 13, 2015

- 1. How long have you lived on, owned, operated or managed the property? I have worked at Sunray since September 30<sup>th</sup>, 2001
- 2. What is the property primarily used for (agriculture, ranching, other)? Electric Generation
- 3. Provide a brief description of how the property was used in the past (include dates of uses, etc.). As per our previous Phase I, the site was used for agricultural purposes. Then the property has been used for electric generation since 1984.
- 4. Do you know of hazardous materials or hazardous substances that are present or once were present at the property? If YES, can you describe them and provide location(s)? Please see the information provided in the Sabertooth data room under Business Emergency Contingency Plan.
- 5. Are you aware of any chemical or petroleum product spills on the property (oil, gas, diesel, herbicides, pesticides, other farm chemicals. etc.) recently or in the past? If YES, what kind, how much, when did it happen, and where (locations)? Please see the information provided in the Sabertooth data room under spill reports.

- 6. Are you aware of any hazardous material releases on the property (like lead-based paint spills, asbestos, etc.) recently or in the past? If YES, what kind, how much, when did it happen, and where (locations)? Please see the information provided in the Sabertooth data room.
- 7. Do you know if any hazardous substance or petroleum products, tires, automotive batteries, or any other waste materials have been dumped above ground, buried and/or burned on the property? If YES, what has occurred, where, and when? Please see the information provided in the Sabertooth data room.
- 8. Do you know of any environmental cleanups that have taken place on the property? If YES, can you describe them? As per our Phase I one cleanup occurred after the purchase of Segs I and II from Luz by DLC, and another after Cogentrix purchased Sunray. We (Sunray) continue to cleanup spills that occur at the site from daily operational process. Please see the information provided in the Sabertooth data room.
- 9. Are you aware of any private water supply wells or irrigation wells currently located on your property? If yes, please provide the number of wells (if known) and a description of the well location(s) that includes the Property Identification Number (PIN) for the applicable parcel where the well is located, and a general description of where within the parcel the well is located (For example: 100 feet north of the existing house in the northwest corner of Parcel No.\_\_\_\_). We have five wells at the facility: One West of SEGS I Power Block, One East of SEGS I Cooling Tower, One West of SEGS II Power Block and two at the SEGS II Cooling Tower, one to the East and one to the South. Please see the information provided in the Sabertooth data room.
- 10. Are you aware of any above ground storage tanks on the property? If YES, what do they contain, how big are they, where are they located, and when were they at the property? (This includes gas or diesel storage tanks) Already emailed.
- 11. Are you aware of any underground storage tanks or septic tanks on the property? If YES, what do they contain, how big are they, where are they located and when were they at the property? I am not aware of any underground storage tanks on the property. I believe there are 3-septic tanks on the property. Please see the information provided in the Sabertooth data room.
- 12. Are you aware of any environmental liens that are filed or recorded against the property under federal, state, local or tribal law? If YES, can you describe them? No
- 13. Are you aware of any activity or use limitations or restrictions on the property (such as engineering controls, institutional controls, etc.) which are or were filed or recorded under federal, state, local, or tribal law? (Activity and use limitations are legal or physical restrictions or limitations that affect access or use of a site. They can be restrictions of record on titles, zoning restrictions, easements, covenants, or physical barriers that reduce potential exposure to hazardous substances or petroleum products.) If YES, can you describe them? Do not know.
- 14. Do you have any other knowledge or experience with the property that may be pertinent to the environmental condition of the property? No
- 15. Are there other people available that might know more about the land use history and environmental condition of the property? Rick Neff, Cheryl Sawyer and John Collins
- 16. Are you aware of any oil wells on your property, or oil and gas leases? No
- 17. Other comments? None

APPENDIX B EDR Report, Sanborn Fire Insurance Map, City Directory Sunray 35100 Santa Fe Street Daggett, CA 92327

Inquiry Number: 4377373.2s August 10, 2015

# The EDR Radius Map<sup>™</sup> Report with GeoCheck<sup>®</sup>



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edmet.com

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*Thank you for your business.* Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

#### TARGET PROPERTY INFORMATION

### ADDRESS

35100 SANTA FE STREET DAGGETT, CA 92327

### COORDINATES

Latitude (North):	34.8653000 - 34° 51' 55.08"
Longitude (West):	116.8257000 - 116° 49' 32.52"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	515931.6
UTM Y (Meters):	3857922.2
Elevation:	1945 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5619556 MINNEOLA, CA
Version Date:	2012
North Map:	5619580 YERMO, CA
Version Date:	2012

#### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from:	20120429
Source:	USDA

### Target Property Address: 35100 SANTA FE STREET DAGGETT, CA 92327

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
ID		ADDRESS	DATABASE ACRONYMS	ELEVATION	DIRECTION
A1	SUNRAY ENERGY LLC	35100 SANTA FE ST	CA HAZNET		TP
A2		35100 SANTA FE ST SO	CA CHMIRS		TP
A3	SUN RAY ENERGY - SEG	35100 SANTA FE RD	US AIRS		TP
A4	SUN RAY ENERGY - SEG	35100 SANTA FE RD	FINDS		TP
A5	SUNRAY ENERGY INC	35100 SANTA FE ST	CA HAZNET		TP
A6		35100 SANTA FE STREE	CA CHMIRS		TP
A7	SUNRAY ENERGY INC	35100 SANTA FE ST	CA NPDES, CA CHMIRS, CA San Bern. Co. Permit		TP
<b>A8</b>		35100 SANTA FE ST (S	CA CHMIRS		TP
A9	SEGS I & II - DAGGET	35100 SANTE FE RD	CA WDS		TP
A10		35100 SANTA FE ST.	CA CHMIRS		TP
A11	DAGGETT LEASING CORP	35100 SANTA FE STREE	CA NPDES		TP
A12		35100 SANTE FE ST	ERNS		TP
A13		35100 SANTE FE ST	ERNS		TP
A14		35100 SANTE FE ST	ERNS		TP
A15		35100 SANTE FE ST	ERNS		ТР
A16		35100 SANTE FE ST	ERNS		TP
A17	SUNRAY ENERGY INC	35100 SANTA FE ST	CA HAZNET		TP
A18		35100 SANTA FE ST	CA CHMIRS		TP
A19	DAGGETT LEASING CORP	35100 SANTA FE STREE	CA EMI		TP
A20		35100 SANTE FE ST	ERNS		TP
A21		35100 SANTE FE ST	ERNS		TP
A22		35100 SANTE FE ST	ERNS		TP
A23		35100 SANTA FE POB 3	ERNS		TP
A24		35100 SANTA FE POB 3	ERNS		TP
A25		35100 SANTA FE	ERNS		ТР
A26		35100 SANTA FE ST.	ERNS		TP
A27		35100 SANTE FE ST	ERNS		TP
A28		35100 SANTA FE	ERNS		ТР
A29		35100 SANTE FE ST	ERNS		TP
A30		35100 SANTA FE POB 3	ERNS		TP
A31		SEGS 1 SOLAR FIELD 3	CA CHMIRS		TP
A32		2A SOUTH FIELD, 3510	CA CHMIRS		TP
A33		DAGGETT LEASING CORP	CA CHMIRS		TP
A34		35100 SANTA FE ST SE	CA CHMIRS		TP
A35	DAGGETT SEGS I & II	35100 SANTA FE ST	CA CHMIRS, CA WDS		TP
A36	SEGS I & II - THREE	35100 SANTE FE RD	CA CHMIRS, CA LDS, CA ENF, CA WMUDS/SWAT		TP
A37		DAGGETT LEASING 3510	CA CHMIRS		TP
A38		35100 SANTA FE STREE	CA CHMIRS		TP
Reg	BARSTOW MARINE CORPS	MARINE CORPS LOGIS B	NPL, CERCLIS, CORRACTS, RCRA-LQG, US ENG CON	ITROLSSame	1 ft.
- 3			· · · · · · · · · · · · · · · · · · ·		-

Target Property Address: 35100 SANTA FE STREET DAGGETT, CA 92327

Click on Map ID to see full detail.

## MAP

MAP				RELATIVE	DIST (ft. & mi.)
<u>ID</u>	SITE NAME	ADDRESS	DATABASE ACRONYMS	ELEVATION	DIRECTION
B39	COOL WATER GENERATIN	37072 E. SANTA FE RO	CA HIST UST	Lower	1 ft.
<b>B</b> 40	SOLAR ONE GENERATING	E. SANTA FE ROAD	CA HIST UST	Lower	1 ft.
B41	COOLWATER GENERATING	37000 SAN FE ST	CA UST	Lower	1 ft.
B42	COOL WATER GENERATIN	37072 E SANTA FE RD	CA SWEEPS UST	Lower	1 ft.
B43	COOLWATER COAL GAS P	37072 E SANTA FE RD	CA SWEEPS UST	Lower	1 ft.
B44	COOLWATER GENERATING	37072 SANTA FE RD E	CA HIST CORTESE, CA LUST	Lower	1 ft.
B45	COOL WATER GENERATIN	PO BOX 337	CA HIST UST	Lower	1 ft.
B46	COOL WATER COAL GASI	37072 E. SANTA FE RO	CA HIST UST	Lower	1 ft.
C47	EPTC COOLWATER	37000 SANTA FE RD.	RCRA-TSDF, CERC-NFRAP, CORRACTS, RCRA-SQG	Higher	2267, 0.429, SW
C48	COOLWATER GENERATING	37000 E SANTA FE ST	CA WMUDS/SWAT	Higher	2267, 0.429, SW

## TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
SUNRAY ENERGY LLC 35100 SANTA FE ST DAGGETT, CA 92327	CA HAZNET GEPAID: CAL000344479	N/A
35100 SANTA FE ST SO 35100 SANTA FE ST SO DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 772	N/A
SUN RAY ENERGY - SEG 35100 SANTA FE RD DAGGETT, CA 92327	US AIRS EPA plant ID:: 110001168986	N/A
SUN RAY ENERGY - SEG 35100 SANTA FE RD DAGGETT, CA 92327	FINDS Registry ID:: 110001168986	N/A
SUNRAY ENERGY INC 35100 SANTA FE ST DAGGETT, CA 92327	CA HAZNET GEPAID: CAL0001 10392	N/A
35100 SANTA FE STREE 35100 SANTA FE STREE DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 07892	N/A
SUNRAY ENERGY INC 35100 SANTA FE ST DAGGETT, CA 92327	CA NPDES Facility Status: Active CA CHMIRS OES Incident Number: 13-5525 OES Incident Number: 09659 OES Incident Number: 7-5117 OES Incident Number: 1-4791 OES Incident Number: 4-5662 *Additional key fields are available in the Map Findings section: CA San Bern. Co. Permit	N/A
35100 SANTA FE ST (S	Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0006101 CA CHMIRS	N/A
35100 SANTA FE ST (S DAGGETT, CA 92327	OES Incident Number: 10-7107	

SEGS I & II - DAGGET 35100 SANTE FE RD DAGGETT, CA 92327	CA WDS Facility Status: A Facility Id: 6B364550001	N/A
35100 SANTA FE ST. 35100 SANTA FE ST. DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 9-0239 OES Incident Number: 7-2217	N/A
DAGGETT LEASING CORP 35100 SANTA FE STREE DAGGETT, CA 92327	CANPDES	N/A
35100 SANTE FE ST 35100 SANTE FE ST DAGGETT, CA 92327	ERNS EDR ID:: 1096343	N/A
35100 SANTE FE ST 35100 SANTE FE ST DAGGETT, CA 92327	ERNS EDR ID:: 1075913	N/A
35100 SANTE FE ST 35100 SANTE FE ST DAGGETT, CA 92327	ERNS EDR ID:: 1098107	N/A
35100 SANTE FE ST 35100 SANTE FE ST DAGGETT, CA 92327	ERNS EDR ID:: 985715	N/A
35100 SANTE FE ST 35100 SANTE FE ST DAGGETT, CA 92327	ERNS EDR ID:: 1097442	N/A
SUNRAY ENERGY INC 35100 SANTA FE ST DAGGETT, CA 92327	CA HAZNET GEPAID: CAP000200188	N/A
35100 SANTA FE ST 35100 SANTA FE ST DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 4-1381	N/A
DAGGETT LEASING CORP 35100 SANTA FE STREE DAGGETT, CA 92311	CA EMI Facility Id: 24802009 Facility Id: 24800899	N/A

35100 SANTE FE ST 35100 SANTE FE ST DAGGETT, CA 92327	ERNS EDR ID:: 1059162	N/A
35100 SANTE FE ST 35100 SANTE FE ST DAGGETT, CA 0	ERNS EDR ID:: 597821	N/A
35100 SANTE FE ST 35100 SANTE FE ST DAGGETT, CA 92327	ERNS EDR ID:: 1105500	N/A
35100 SANTA FE POB 3 35100 SANTA FE POB 3 DAGGETT, CA 92327	ERNS EDR ID:: 00369366	N/A
35100 SANTA FE POB 3 35100 SANTA FE POB 3 DAGGETT, CA 92327	ERNS EDR ID:: 479251	N/A
35100 SANTA FE 35100 SANTA FE DAGGETT, CA 92327	ERNS EDR ID:: 482748	N/A
35100 SANTA FE ST. 35100 SANTA FE ST. DAGGETT, CA	ERNS EDR ID:: 622394	N/A
35100 SANTE FE ST 35100 SANTE FE ST DAGGETT, CA 92327	ERNS EDR ID:: 607648	N/A
35100 SANTA FE 35100 SANTA FE DAGGETT, CA 92327	ERNS EDR ID:: 00379582	N/A
35100 SANTE FE ST 35100 SANTE FE ST DAGGETT, CA 92327	ERNS EDR ID:: 000561871	N/A
35100 SANTA FE POB 3 35100 SANTA FE POB 3 DAGGETT, CA 92327	ERNS EDR ID:: 00380955	N/A

SEGS 1 SOLAR FIELD 3 SEGS 1 SOLAR FIELD 3 DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 06948	N/A
2A SOUTH FIELD, 3510 2A SOUTH FIELD, 3510 DAGGETT, CA	CA CHMIRS OES Incident Number: 7-4931	N/A
DAGGETT LEASING CORP DAGGETT LEASING CORP DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 528	N/A
35100 SANTA FE ST SE 35100 SANTA FE ST SE DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 07326	N/A
DAGGETT SEGS I & II 35100 SANTA FE ST DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 07504 CA WDS Facility Status: A Facility Id: 6B36l010399	N/A
SEGS I & II - THREE 35100 SANTE FE RD DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 15-0218 OES Incident Number: 06733	N/A
	CA LDS Global Id: L10001994035 Status: Open	
	CA ENF Status: Historical Status: Active Facility Id: 256224	
	CA WMUDS/SWAT	
DAGGETT LEASING 3510 DAGGETT LEASING 3510 DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 670	N/A
35100 SANTA FE STREE 35100 SANTA FE STREE DAGGETT, CA 92327	CA CHMIRS OES Incident Number: 10103 OES Incident Number: 2-1685	N/A

#### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

#### STANDARD ENVIRONMENTAL RECORDS

#### Federal NPL site list

Proposed NPL..... Proposed National Priority List Sites NPL LIENS...... Federal Superfund Liens

#### Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

#### Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing

#### Federal RCRA generators list

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

#### Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

#### State- and tribal - equivalent NPL

CA RESPONSE..... State Response Sites

#### State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF..... Solid Waste Information System

#### State and tribal leaking storage tank lists

CA SLIC...... Statewide SLIC Cases INDIAN LUST...... Leaking Underground Storage Tanks on Indian Land

#### State and tribal registered storage tank lists

CA AST...... Aboveground Petroleum Storage Tank Facilities INDIAN UST..... Underground Storage Tanks on Indian Land FEMA UST..... Underground Storage Tank Listing

#### State and tribal voluntary cleanup sites

CA VCP...... Voluntary Cleanup Program Properties INDIAN VCP...... Voluntary Cleanup Priority Listing

#### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

## Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9	. Torres Martinez Reservation Illegal Dump Site Locations
ODL	. Open Dump Inventory
CA SWRCY	Recycler Database
CA HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODL	. Report on the Status of Open Dumps on Indian Lands

### Local Lists of Hazardous waste / Contaminated Sites

US CDL	Clandestine Drug Labs
CA HIST Cal-Sites	
CA SCH	School Property Evaluation Program
CA Toxic Pits	
CA CDL	Clandestine Drug Labs
	National Clandestine Laboratory Register

## Local Lists of Registered Storage Tanks

CA FID UST..... Facility Inventory Database

#### Local Land Records

LIENS 2	CERCLA Lien Information
CA LIENS	Environmental Liens Listing
CA DEED	

## Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
	Military Cleanup Sites Listing
CA SPILLS 90	SPILLS 90 data from FirstSearch

### Other Ascertainable Records

	RCRA - Non Generators / No Longer Regulated
DOT OPS	. Department of Defense Sites
	. Formerly Used Defense Sites
	. Superfund (CERCLA) Consent Decrees
UMTRA	. Uranium Mill Tailings Sites
US MINES	. Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	. FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide
	Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	. FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	. Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	. Material Licensing Tracking System
	- Radiation Information Database
RMP	. Risk Management Plans
CA BOND EXP. PLAN	

#### EDR HIGH RISK HISTORICAL RECORDS

#### EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
	EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners	EDR Exclusive Historic Dry Cleaners

#### EDR RECOVERED GOVERNMENT ARCHIVES

#### **Exclusive Recovered Govt. Archives**

CA RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank CA RGA LF..... Recovered Government Archive Solid Waste Facilities List

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed

data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

## STANDARD ENVIRONMENTAL RECORDS

#### Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 03/26/2015 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARSTOW MARINE CORPS	MARINE CORPS LOGIS B	0 - 1/8 (0.000 mi.)	0	68

#### Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARSTOW MARINE CORPS	MARINE CORPS LOGIS B	0 - 1/8 (0.000 mi.)	0	68

#### Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EPTC COOLWATER	37000 SANTA FE RD.	SW 1/4 - 1/2 (0.429 mi.)	C47	139

### Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/10/2015 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARSTOW MARINE CORPS	MARINE CORPS LOGIS B	0 - 1/8 (0.000 mi.)	0	68
EPTC COOLWATER	37000 SANTA FE RD.	SW 1/4 - 1/2 (0.429 mi.)	C47	139

### Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/10/2015 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EPTC COOLWATER	37000 SANTA FE RD.	SW 1/4 - 1/2 (0.429 mi.)	C47	139

#### Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/10/2015 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARSTOW MARINE CORPS	MARINE CORPS LOGIS B	0 - 1/8 (0.000 mi.)	0	68

#### Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 03/16/2015 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARSTOW MARINE CORPS	MARINE CORPS LOGIS B	0 - 1/8 (0.000 mi.)	0	68

US INST CONTROL: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROL list, as provided by EDR, and dated 03/16/2015 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARSTOW MARINE CORPS	MARINE CORPS LOGIS B	0 - 1/8 (0.000 mi.)	0	68

#### State- and tribal - equivalent CERCLIS

CA ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 05/04/2015 has revealed that there is 1 CA ENVIROSTOR site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARSTOW MARINE CORPS Status: Refer: Other Agency	MARINE CORPS LOGIS B	0 - 1/8 (0.000 mi.)	0	68
Facility Id: 80001276				

#### State and tribal leaking storage tank lists

CA LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the CA LUST list, as provided by EDR, and dated 06/15/2015 has revealed that there is 1

CA LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COOLWATER GENERATING Status: Case Closed Status: Completed - Case Closed Global Id: T0607100667 Close Date: 10/23/1989	37072 SANTA FE RD E	0 - 1/8 (0.000 mi.)	B44	135

#### State and tribal registered storage tank lists

CA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the CA UST list, as provided by EDR, and dated 06/15/2015 has revealed that there is 1 CA UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COOLWATER GENERATING Facility Id: 87014400	37000 SAN FE ST	0 - 1/8 (0.000 mi.)	B41	133

#### ADDITIONAL ENVIRONMENTAL RECORDS

### Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the CA WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 CA WMUDS/SWAT site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COOLWATER GENERATING	37000 E SANTA FE ST	SW 1/4 - 1/2 (0.429 mi.)	C48	146

### Local Lists of Registered Storage Tanks

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 4 CA HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COOL WATER GENERATIN Facility Id: 00000066314	37072 E. SANTA FE RO	0 - 1/8 (0.000 mi.)	B39	131
SOLAR ONE GENERATING Facility Id: 00000066329	E. SANTA FE ROAD	0 - 1/8 (0.000 mi.)	B40	133

Lower Elevation	Address	Direction / Distance	Map ID	Page
COOL WATER GENERATIN Facility Id: 00000060016	PO BOX 337	0 - 1/8 (0.000 mi.)	B45	137
COOL WATER COAL GASI Facility Id: 00000058855	37072 E. SANTA FE RO	0 - 1/8 (0.000 mi.)	B46	137

CA SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COOL WATER GENERATIN Status: A Tank Status: A Comp Number: 66314	37072 E SANTA FE RD	0 - 1/8 (0.000 mi.)	B42	133
COOLWATER COAL GAS P Status: A Tank Status: A Comp Number: 58855	37072 E SANTA FE RD	0 - 1/8 (0.000 mi.)	B43	134

#### Other Ascertainable Records

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 11/25/2013 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARSTOW MARINE CORPS	MARINE CORPS LOGIS B	0 - 1/8 (0.000 mi.)	0	68

CA HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 CA HIST CORTESE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COOLWATER GENERATING Reg ld: 6B3600079T	37072 SANTA FE RD E	0 - 1/8 (0.000 mi.)	B44	135

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, has revealed that there is 1 NY MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARSTOW MARINE CORPS	MARINE CORPS LOGIS B	0 - 1/8 (0.000 mi.)	0	68

CA HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the CA HWP list, as provided by EDR, and dated 05/26/2015 has revealed that there is 1 CA HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARSTOW MARINE CORPS EPA Id: CA8170024261 Cleanup Status: PROTECTIVE FILER	MARINE CORPS LOGIS B	0 - 1/8 (0.000 mi.)	0	68

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name

DAGGET AIRPORT

Database(s)

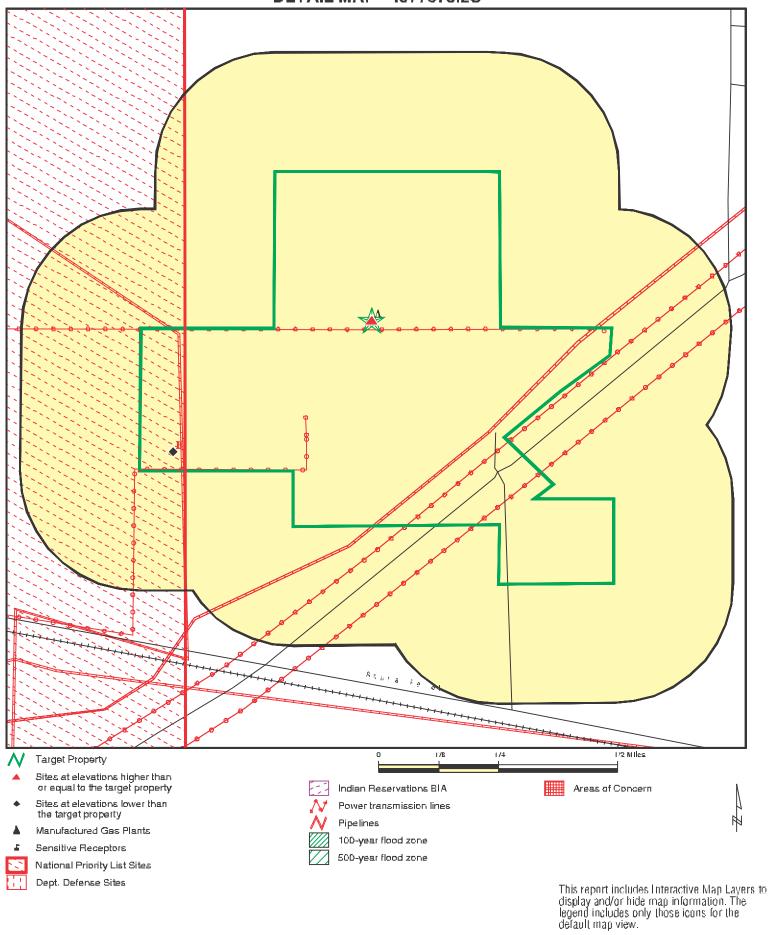
CA BOND EXP. PLAN

## **OVERVIEW MAP - 4377373.2S**



SITE NAME:	Sunray	CLIENT:	Westwood Professional Services
ADDRESS:	35100 Santa Fe Street	CONTACT:	Tom Braman
	Daggett CA 92327	INQUIRY #:	4377373.2s
LAT/LONG:	34.8653 / 116.8257	DATE:	August 10, 2015 9:02 am

**DETAIL MAP - 4377373.2S** 



SITE NAME: Sunray	CLIENT: Westwood Professional Services
ADDRESS: 35100 Santa Fe Street	CONTACT: Tom Braman
Daggett CA 92327	INQUIRY #: 4377373.2s
LAT/LONG: 34.8653 / 116.8257	DATE: August 10, 2015 9:03 am

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	<u>1/4 - 1/2</u>	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		1 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	1 0 0
Federal Delisted NPL si	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY	0.500 0.500		1 0	0 0	0 0	NR NR	NR NR	1 0
Federal CERCLIS NFRA	P site List							
CERC-NFRAP	0.500		0	0	1	NR	NR	1
Federal RCRA CORRAC	TS facilities l	ist						
CORRACTS	1.000		1	0	1	0	NR	2
Federal RCRA non-COR	RACTS TSD	facilities list						
RCRA-TSDF	0.500		0	0	1	NR	NR	1
Federal RCRA generato	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		1 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	1 0 0
Federal institutional con engineering controls reg								
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROL LUCIS	0.500 0.500		1 0	0 0	0 0	NR NR	NR NR	1 0
Federal ERNS list	0.000		0	0	0			0
ERNS	TP	16	NR	NR	NR	NR	NR	16
State- and tribal - equiva		10						10
CA RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equiva		s	Ũ	0	Ū	Ũ		Ū
CA ENVIROSTOR	1.000	5	1	0	0	0	NR	1
State and tribal landfill a solid waste disposal site	and/or		·	Ū	Ū	Ŭ		
CA SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking		lists						
CALUST	0.500		1	0	0	NR	NR	1

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA SLIC INDIAN LUST	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal registe	red storage ta	nk lists						
CA UST CA AST INDIAN UST FEMA UST <b>State and tribal volunta</b>	0.250 0.250 0.250 0.250 0.250	es	1 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	1 0 0 0
CA VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
ADDITIONAL ENVIRONME	ENTAL RECORD	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Waste Disposal Sites	Solid							
DEBRIS REGION 9 ODI CA SWRCY CA HAULERS INDIAN ODI CA WMUDS/SWAT	0.500 0.500 TP 0.500 0.500	1	0 0 NR 0 0	0 0 NR 0 0	0 0 NR 0 1	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0 2
Local Lists of Hazardo Contaminated Sites	us waste /							
US CDL CA HIST Cal-Sites CA SCH CA Toxic Pits CA CDL US HIST CDL	TP 1.000 0.250 1.000 TP TP		NR 0 0 NR NR	NR 0 0 NR NR	NR 0 NR 0 NR NR	NR 0 NR 0 NR NR	NR NR NR NR NR	0 0 0 0 0 0
Local Lists of Register	ed Storage Tai	nks						
CA FID UST CA HIST UST CA SWEEPS UST	0.250 0.250 0.250		0 4 2	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 4 2
Local Land Records								
LIENS 2 CA LIENS CA DEED	TP TP 0.500		NR NR 0	NR NR 0	NR NR 0	NR NR NR	NR NR NR	0 0 0
Records of Emergency	Release Repo	orts						
HMIRS CA CHMIRS CA LDS	TP TP TP	14 1	NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 14 1

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA MCS CA SPILLS 90	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Rec	ords							
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		1	0	0	0	NR	1
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS HIST FTTS	TP		NR	NR	NR	NR NR	NR	0
SSTS	TP TP		NR NR	NR NR	NR NR	NR	NR NR	0 0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	Õ
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP	-	NR	NR	NR	NR	NR	Ó
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA NPDES	TP	2	NR	NR	NR	NR	NR	2
CAUIC	TP		NR	NR	NR	NR	NR	0
CA Cortese	0.500		0	0	0	NR	NR	0
CA HIST CORTESE	0.500		1	0	0	NR	NR	1
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		1	0	NR	NR	NR	1
CA Notify 65	1.000		0	0	0	0	NR	0
	0.250		0	0	NR	NR	NR	0
CA WIP CA ENF	0.250 TP	4	0 NR	0 NR	NR	NR NR	NR	0 1
CA ENF CA San Bern. Co. Permit	0.250	1 1	0	0	NR NR	NR	NR NR	1
CA San Benn. CO. Fernint CA HAZNET	0.230 TP	3	NR	NR	NR	NR	NR	3
CA EMI	TP	1	NR	NR	NR	NR	NR	1
INDIAN RESERV	1.000	•	0	0	0	0	NR	O
SCRD DRYCLEANERS	0.500		Õ	Ő	Õ	NR	NR	Õ
CA WDS	TP	2	NR	NR	NR	NR	NR	2
CA PROC	0.500		0	0	0	NR	NR	0
CA HWT	0.250		0	0	NR	NR	NR	0
CA HWP	1.000		1	0	0	0	NR	1
CA MWMP	0.250		0	0	NR	NR	NR	0
CA Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
USAIRS	TP	1	NR	NR	NR	NR	NR	1
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Go	ovt. Archives							
CA RGA LUST CA RGA LF	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
- Totals		44	21	0	4	0	0	67

## NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

EDR ID Number Database(s) EPA ID Number

A1 Target Property	SUNRAY ENERGY LLC 35100 SANTA FE ST DAGGETT, CA 92327		CA HAZNET	S113156519 N/A
	Site 1 of 38 in cluster A			
Actual	HAZNET:			
Property Actual: 1945 ft.		S113156519         2013         CAL000344479         FRANCISCO RUELAS         7602543381         Not reported         PO BOX 338         DAGGETT, CA 923270338         San Bemardino         CAD982444481         San Bemardino         Not reported         Storage, Bulking, And/Or Transfer Off SiteNo Treatment/Reovery         (H010-H129) Or (H131-H135)         0.015         Not reported         S113156519         2013         CAL000344479         FRANCISCO RUELAS         7602543381         Not reported         PO BOX 338         DAGEETT, CA 923270338         San Bemardino         CAD982444481         San Bemardino         CAD982444481         San Bemardino         Not reported         Storage, Bulking, And/Or Transfer Off SiteNo Treatment/Reovery         (H010-H129) Or (H131-H135)         1.1775         Not reported         Storage, Bulking, And/Or Transfer Off SiteNo Treatment/Reovery         (H010-H129) Or (H131-H135)         1.1775         Not reported         S113156519         20		
	Mailing Name:	Not reported		
	Mailing Address: Mailing City,St,Zip: Gen County: TSD EPA ID:	PO BOX 338 DAGGETT, CA 923270338 San Bemardino CAD982444481		
	TSD County: Waste Category:	San Bernardino		
	Waste Category: Disposal Method:	Not reported Storage, Bulking, And/Or Transfer Off SiteNo Treatment/Reovery (H010-H129) Or (H131-H135)		
	Tons:	3.6362		
	Facility County:	Not reported		
	envid:	S113156519		

SUNRAY ENERGY LLC (Continued)

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

#### S113156519

eration,
То

<u>Click this hyperlink</u> while viewing on your computer to access 25 additional CA\_HAZNET: record(s) in the EDR Site Report.

#### A2 Target 35100 SANTA FE ST SOLAR ELECTRIC GENERATING SYSTSEM 1 (SEGS) Property DAGGETT, CA 92327

CA CHMIRS \$106389585 N/A

#### Site 2 of 38 in cluster A

Actual:	CHMIRS:	
1945 ft.	OES Incident Number:	772
	OES notification:	Not reported
	OES Date:	6/20/1994
	OES Time:	09:40:58 AM
	Incident Date:	Not reported
	Date Completed:	Not reported
	Property Use:	Not reported
	Agency Id Number:	Not reported
	Agency Incident Number:	Not reported
	Time Notified:	Not reported
	Time Completed:	Not reported
	Surrounding Area:	Not reported
	Estimated Temperature:	Not reported
	Property Management:	Not reported
	More Than Two Substances Involved?:	Not reported

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

#### (Continued)

Resp Agncy Personel # Of Decontaminated: Responding Agency Personel # Of Injuries: Responding Agency Personel # Of Fatalities: Others Number Of Decontaminated: Others Number Of Injuries: Others Number Of Fatalities: Vehicle Make/year: Vehicle License Number: Vehicle State: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: Waterway: Spill Site: Cleanup By: Containment: What Happened: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Site Type: E Date: Substance: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

Not reported YES Not reported Not reported daggett Not reported Not reported PETROLEUM Not reported Not reported Not reported 1994 daggett leasing corp 1700/19june94 Not reported approx 900 gals NO OTHER Not reported chervon heat transfer fluid -ht Not reported Not reported Not reported NO NO NO Not reported heat collection element weld flange failed causing leak in system and spill to ground

#### S106389585

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

A3	SUN RAY ENERGY - SEG	SI&II	US AIRS	1005519101
Target Property	35100 SANTA FE RD DAGGETT, CA 92327			N/A
	Site 3 of 38 in cluster A			
Actual:	AIRS (AFS):			
1945 ft.	Complian ce and Violatio EPA plant ID: Plant name: Plant address: County: Region code: Dunn & Bradst #: Air quality cntrl regior Sic code: Sic code desc: North Am. industrial o NAIC code descriptio Default compliance s Default classification: Govt facility: Current HPV:	110001168986 SUN RAY ENERGY - SEGS I & II 35100 SANTA FE RD DAGGETT, CA 92327 SAN BERNARDINO 09 Not reported 1: 024 4911 ELECTRIC SER VICES classf: 325991 In: Custom Compounding of Purchased Resins tatus: IN COMPLIANCE - INSPECTION		
A4 Target Property	SUN RAY ENERGY - SEG 35100 SANTA FE RD DAGGETT, CA 92327 Site 4 of 38 in cluster A	SI&II	FINDS	1016058427 N/A
Actual:	FINDS:			
1945 ft.	Registry ID:	110001168986		
	AF Su Na Ae inf usi AF to esi rec of	st/Information System S (Aerometric Information Retrieval System (AIRS) Facility bsystem) replaces the former Compliance Data System (CDS), the tional Emission Data System (NEDS), and the Storage and Retrieval of rometric Data (SAROAD). AIRS is the national repository for ormation concerning airborne pollution in the United States. AFS is ed to track emissions and compliance data from industrial plants. S data are utilized by states to prepare State Implementation Plans comply with regulatory programs and by EPA as an input for the timation of total national emissions. AFS is undergoing a major design to support facility operating permits required under Title V the Clean Air Act.		
	err	Emissions & Generation Resource Database (EGRID) contains data on hissions and resource mix for virtually every power plant and company at generates electricity in the United States.		
	EL	ECTRIC GENERATOR		
	AIF	RMAJOR		

Map ID Direction Distance Ele

MAP FINDINGS

Direction				
Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
	SUN RAY ENERGY - SE	GS I & II (Continued)		1016058427
	C	RITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY		
	G	REENHOUSE GAS REPORTER		
A5 Target Property	SUNRAY ENERGY INC 35100 SANTA FE ST DAGGETT, CA 92327		CA HAZNET	S113062649 N/A
	Site 5 of 38 in cluster A			
Actual:	HAZNET:			
1945 ft.	envid:	S113062649		
	Year:	2010		
	GEPAID:	CAL000110392		
	Contact:	FRANCISCO RUELAS		
	Telephone:	7602543381		
	Mailing Name:	Not reported		
	Mailing Address:	POBOX 338		
	Mailing City,St,Zip:	DAGGETT, CA 923270338		
	Gen County: TSD EPA ID:	Not reported		
		NVT330010000		
	TSD County: Waste Category:	Not reported Contaminated soil from site clean-up		
	Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill( T Include On-Site Treatment And/Or Stabilization)	ō	
	Tons:	23.6		
	Facility County:	San Bernardino		
	envid:	S113062649		
	Year:	2009		
	GEPAID:	CAL000110392		
	Contact:	FRANCISCO RUELAS		
	Telephone:	7602543381		
	Mailing Name:	Not reported		
	Mailing Address:	POBOX 338		
	Mailing City,St,Zip: Gen County:	DAGGETT, CA 923270338 Not reported		
	TSD EPA ID:	CAT080013352		
	TSD County:	Not reported		
	Waste Category:	Waste oil and mixed oil		
	Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regener Organics Recovery Ect	ation,	
	Tons:	19		
	Facility County:	San Bemardino		
	envid:	S113062649		
	Year:	2009		
	GEPAID:	CAL000110392		
	Contact:	FRANCISCO RUELAS		
	Telephone: Mailing Name:	7602543381 Not reported		
	Mailing Address:	POBOX 338		
	Mailing City,St,Zip:	DAGGETT, CA 923270338		
	Gen County:	Not reported		
	TSD EPA ID:	NVT330010000		
	TSD County:	Not reported		
	Waste Category:	Contaminated soil from site clean-up		
		Tr		

MAP FINDINGS

EDR ID Number Database(s) EPA ID Number

#### SUNRAY ENERGY INC (Continued)

#### S113062649

Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)	
Tons:	23.6	
Facility County:	San Bernardino	
envid:	S113062649	
Year:	2009	
GEPAID:	CAL000110392	
Contact:	FRANCISCO RUELAS	
Telephone:	7602543381	
Mailing Name:	Not reported	
Mailing Address:	PO BOX 338 DAGGETT, CA 923270338	
Mailing City,St,Zip: Gen County:	Not reported	
TSD EPA ID:	NVT330010000	
TSD County:	Not reported	
Waste Category:	Not reported	
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill( To	
	Include On-Site Treatment And/Or Stabilization)	
Tons:	25.284	
Facility County:	San Bemardino	
envid:	S113062649	
Year:	2009	
GEPAID:	CAL000110392	
Contact:	FRANCISCO RUELAS	
Telephone:	7602543381	
Mailing Name:	Not reported	
Mailing Address:	PO BOX 338	
Mailing City, St, Zip:	DAGGETT, CA 923270338	
Gen County:	Not reported	
TSD EPA ID:	CAT080013352	
TSD County:	Not reported	
Waste Category:	Un specified oil-containing waste	
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect	
Tons:	8.34	
Facility County:	San Bemardino	

<u>Click this hyperlink</u> while viewing on your computer to access 17 additional CA\_HAZNET: record(s) in the EDR Site Report.

#### A6 Target 35100 SANTA FE STREET DAGGET LEASING CORPORATION AT THE SEGS Property DAGGETT, CA 92327

#### Site 6 of 38 in cluster A

CHMIRS:	
OES Incident Number:	07892
OES notification:	Not reported
OES Date:	4/18/1995
OES Time:	08:42:06 AM
Incident Date:	Not reported
Date Completed:	Not reported
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
	OES Incident Number: OES notification: OES Date: OES Time: Incident Date: <b>Date Completed:</b> Property Use: Agency Id Number:

CA CHMIRS \$106390619 N/A

Database(s)

EDR ID Number **EPA ID Number** 

#### S106390619

(Continued)	)
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Site

Time Notified: Time Completed: Surrounding Area: Estimated Temperature: Property Management: More Than Two Substances Involved?: Resp Agncy Personel # Of Decontaminated: Responding Agency Personel # Of Injuries: Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Others Number Of Injuries: Others Number Of Fatalities: Vehicle Make/year: Vehicle License Number: Vehicle State: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: Waterway: Spill Site: Cleanup By: Containment: What Happened: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Site Type: E Date: Substance: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

Not reported YES Not reported Not reported daggett personnel Not reported Not reported PETROLEUM Not reported Not reported Not reported 1995 daggett leasing corp 0820/18apr95 Not reported 30 gallons NO OTHER Not reported heat transfer oil ht Not reported Not reported Not reported NO NO NO Not reported failure of a relief valve

## MAP FINDINGS

Database(s) EPA ID

EDR ID Number EPA ID Number

Jarget       Stulu SAN IA FE SI       CA Can Bern. Co. Permit         Property       DoGGETT, CA 25277       CA San Bern. Co. Permit         Site 7 of 38 in cluster A       Actual:       NPDES:         Actual:       NPDES:       Not reported         Registary Measure Type:       Not reported         Registary Measure Type:       Industrial         Place Id       Not reported         Registary Measure Type:       Not reported         Registary Measure Type:       Not reported         Place Id       Not reported         Registary Measure Type:       Not reported         Place Id       Not reported         Place Id       Not reported         Place Id       Not reported         Place Id       Not reported         Effective Date Of Regulatory Measure:       Not reported         Ubicharge Adress:       Not reported         Discharge Adress:       Not reported	A7	SUNRAY ENERGY INC	CA NPDES \$103989872
Actual: NPDES: Not reported Facility Status: Agency Id: Agency Id: Agenc	Target Property	35100 SANTA FE ST DAGGETT, CA 92327	CA CHMIRS N/A CA San Bern. Co. Permit
Titles         Not reported           Facity Status:         Not reported           Agency Id:         Not reported           Region:         6B           Regulatory Measure Id:         401601           Order No:         Not reported           Regulatory Measure Type:         Industrial           Place Id:         Not reported           WDID:         6B381022476           Program Type:         Not reported           Adoption Date Of Regulatory Measure:         Not reported           Expiration Date Of Regulatory Measure:         Not reported           Expiration Date Of Regulatory Measure:         Not reported           Discharge Name:         Not reported           Discharge Name:         Not reported           Discharge Name:         Not reported           Discharge State:		Site 7 of 38 in cluster A	
1945 ft.     Not reported       Facility Status:     Not reported       Region:     6B       Region:     6B       Regulatory Measure Id:     401601       Order No:     Not reported       Regulatory Measure Id:     401601       Order No:     Not reported       Regulatory Measure Type:     Industrial       Phace Id:     Not reported       WDID:     663 (022476       Program Type:     Not reported       Adoption Date Of Regulatory Measure:     Not reported       Expiration Date Of Regulatory Measure:     Not reported       Expiration Date Of Regulatory Measure:     Not reported       Discharge Address:     Not reported       Discharge Address:     Not reported       Discharge State:     Not reported       PACE SIZE:     NOT reported       STATUS COCE NAME:     Activa       STATUS CO	Actual	NPDES:	
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STATUS DATE:01/14/2010PLACE SIZE:333PLACE SIZE UNIT:AcresFACILITY CONTACT NAME:Francisco RuelasFACILITY CONTACT TITLE:EHS CoordinatorFACILITY CONTACT PHONE:760-254-3381FACILITY CONTACT PHONE EXT:2180FACILITY CONTACT EMAIL:Francisco Ruelas @ Cogentrix.comOPERATOR NAME:Sunray LLCOPERATOR NAME:DeggettOPERATOR CITY:DaggettOPERATOR STATE:CaliforniaOPERATOR CONTACT TITLE:Brad BergmanOPERATOR CONTACT PHONE EXT:2120OPERATOR CONTACT TITLE:General ManagerOPERATOR CONTACT PHONE EXT:2120OPERATOR CONTACT PHONE EXT:Not reportedDEVELOPER NAME:Not reportedDEVELOPER NAME:Not reportedDEVELOPER STATE:CaliforniaDEVELOPER STATE:CaliforniaDEVELOPER TIP:Not reportedDEVELOPER CONTACT TITLE:Not reportedDEVELOPER CONTACT TITLE:Not reportedDEVELOPER CONTACT TITLE:Not reportedDEVELOPER CONTAC		PROCESSED DATE:	01/14/2010
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CONSTYPE ABOVE GROUND IND: Not reported		EMERGENCY PHONE EXT:	Not reported
		CONSTYPE ABOVE GROUND IND:	Not reported

Database(s)

EDR ID Number EPA ID Number

#### S103989872

#### SUNRAY ENERGY INC (Continued)

CONSTYPE BELOW GROUND IND: CONSTYPE CABLE LINE IND: CONSTYPE COMM LINE IND: CONSTYPE COMMERTIAL IND: CONSTYPE ELECTRICAL LINE IND: CONSTYPE GAS LINE IND: CONSTYPE INDUSTRIAL IND: CONSTYPE OTHER DESRIPTION: CONSTYPE OTHER IND: CONSTYPE RECONS IND: CONSTYPE RESIDENTIAL IND: CONSTYPE TRANSPORTIND: CONSTYPE UTILITY DESCRIPTION: CONSTYPE UTILITY IND: CONSTYPE WATER SEWER IND: DIR DISCHARGE USWATER IND: RECEIVING WATER NAME: CERTIFIER NAME: CERTIFIER TITLE: CERTIFICATION DATE: PRIMARY SIC: SECONDARY SIC: TERTIARY SIC: Npdes Number: Facility Status: Agency Id: Region: Regulatory Measure Id: Order No: Regulatory Measure Type: Place Id: WDID: Program Type: Adoption Date Of Regulatory Measure: Effective Date Of Regulatory Measure: Expiration Date Of Regulatory Measure: Termination Date Of Regulatory Measure: Discharge Name: Discharge Address: Discharge City: Discharge State: Discharge Zip: RECEIVED DATE: PROCESSED DATE: STATUS CODE NAME: STATUS DATE: PLACE SIZE: PLACE SIZE UNIT: FACILITY CONTACT NAME: FACILITY CONTACT TITLE: FACILITY CONTACT PHONE: FACILITY CONTACT PHONE EXT: FACILITY CONTACT EMAIL: OPERATOR NAME: OPERATOR ADDRESS: OPERATOR CITY:

Not reported Ν Mojave River Brad Bergman General Manager 30-MAR-15 4911-Electric Services Not reported Not reported CAS000001 Active 0 6B 401601 97-03-DWQ Enrollee Not reported 6B36I022476 Industrial Not reported 01/14/2010 Not reported Not reported Sunray LLC PO Box 338 Daggett California 92327 Not reported Not reported

Not reported

Database(s)

EDR ID Number EPA ID Number

#### S103989872

#### SUNRAY ENERGY INC (Continued)

**OPERATOR STATE:** OPERATOR ZIP: OPERATOR CONTACT NAME: OPERATOR CONTACT TITLE: OPERATOR CONTACT PHONE: OPERATOR CONTACT PHONE EXT: OPERATOR CONTACT EMAIL: **OPERATOR TYPE:** DEVELOPER NAME: DEVELOPER ADDRESS: DEVELOPER CITY: DEVELOPER STATE: DEVELOPER ZIP: DEVELOPER CONTACT NAME: DEVELOPER CONTACT TITLE: CONSTYPE LINEAR UTILITY IND: EMERGENCY PHONE NO: EMERGENCY PHONE EXT: CONSTYPE ABOVE GROUND IND: CONSTYPE BELOW GROUND IND: CONSTYPE CABLE LINE IND: CONSTYPE COMM LINE IND: CONSTYPE COMMERTIAL IND: CONSTYPE ELECTRICAL LINE IND: CONSTYPE GAS LINE IND: CONSTYPE INDUSTRIAL IND: CONSTYPE OTHER DESRIPTION: CONSTYPE OTHER IND: CONSTYPE RECONS IND: CONSTYPE RESIDENTIAL IND: CONSTYPE TRANSPORT IND: CONSTYPE UTILITY DESCRIPTION: CONSTYPE UTILITY IND: CONSTYPE WATER SEWER IND: DIR DISCHARGE USWATER IND: RECEIVING WATER NAME: CERTIFIER NAME: CERTIFIER TITLE: CERTIFICATION DATE: PRIMARY SIC: SECONDARY SIC: TERTIARY SIC: CHMIRS: **OES** Incident Number: OES notification: OES Date: OES Time: Incident Date:

Date Completed:

Agency Id Number:

Agency Incident Number:

Estimated Temperature:

Property Use:

Time Notified:

Time Completed:

Surrounding Area:

Not reported 13-5525

09/04/2013 Not reported MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

#### SUNRAY ENERGY INC (Continued)

Property Management: More Than Two Substances Involved?: Resp Agncy Personel # Of Decontaminated: Responding Agency Personel # Of Injuries: Responding Agency Personel # Of Fatalities: Others Number Of Decontaminated: Others Number Of Injuries: Others Number Of Fatalities: Vehicle Make/year: Vehicle License Number: Vehicle State: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: No Waterway: Spill Site: Cleanup By: Containment: What Happened: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Yes Site Type: E Date: Substance: Quantity Released: 150 Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

Not reported Other Reporting Party Not reported Not reported Not reported Gal(s) Not reported 810 2013 Sunrey Energy 9/4/2013 San Bernardino County Fire Department Not reported Not reported Not reported Caloria (Mineral Oil / Chevron HT) Not reported Caller states substance was released due to tube failure. Caller states substance released to a soil area in a solar field. Caller states clean-up is in progress.

Database(s)

EDR ID Number EPA ID Number

#### SUNRAY ENERGY INC (Continued)

OES Incident Number: 09659 Not reported OES notification: OES Date: 8/21/1995 OES Time: 12:31:24 PM Incident Date: Not reported Date Completed: Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number. Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Not reported Vehicle License Number: Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: YES Waterway: Not reported Spill Site: Not reported Cleanup By: dagget leasing corp. Containment: Not reported What Happened: Not reported PETROLEUM Type: Measure: Not reported Other: Not reported Date/Time: Not reported Year: 1995 Agency: dagget leasing corp Incident Date: 1220 21AUG95 Admin Agency: Not reported no spill-fire only Amount: NO Contained: Site Type: OTHER E Date: Not reported Substance: chevron heat transfer oil Unknown: Not reported Substance #2: Not reported Substance #3: Not reported Evacuations: NO NO Number of Injuries: Number of Fatalities: NO #1 Pipeline: Not reported #2 Pipeline: Not reported

#### S103989872

Database(s)

EDR ID Number EPA ID Number

#### S103989872

#### SUNRAY ENERGY INC (Continued)

#3 Pipeline:
#1 Vessel >= 300 Tons:
#2 Vessel >= 300 Tons:
#3 Vessel >= 300 Tons:
Evacs:
Injuries:
Fatals:
Comments:
Description:

Not reported some type of heat transfer pump oil transfer that allowed the release of the fluid that caught fire. no release, fire has been extinguished by on site fire dept.

OES Incident Number: 7-5117 OES notification: 12/26/1997 OES Date: Not reported OES Time: Not reported Incident Date: Not reported Date Completed: Not reported Property Use: Not reported Agency Id Number: Not reported Not reported Agency Incident Number: Not reported Time Notified: Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Not reported Vehicle Make/year: Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Not reported Reporting Officer Name/ID: Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No Not reported Waterway: Spill Site: Not reported Cleanup By: Reporting Party Containment: Not reported What Happened: Not reported Not reported Type: Measure: Not reported Other: Not reported Date/Time: Not reported Year: 1997 Agency: DAGGETT LEASING Incident Date: 12/26/199712:00:00 AM Admin Agency: San Bernardino County Health Department

Database(s)

EDR ID Number EPA ID Number

### SUNRAY ENERGY INC (Continued)

NRAY ENERGY INC (Continued)	
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	THERMINOL
Gallons:	50
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	
Description:	FLANGE FAILURE CAUSED THE RELEASE.
OES Incident Number:	1-4791
OES notification:	08/12/2011
OES Date:	Not reported
OESTime:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries: Responding Agency Personel # Of Fatalities:	Not reported
1 0 0 ,	•
Others Number Of Decontaminated: Others Number Of Injuries:	Not reported Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other

Reporting Party

Database(s) E

EDR ID Number EPA ID Number

S103989872

#### SUNRAY ENERGY INC (Continued)

Cleanup By: Containment: What Happened: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Site Type: E Date: Substance: Quantity Released: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

OES Incident Number: OES notification: OES Date: Not reported OES Time: Not reported Incident Date: Not reported Date Completed: Not reported Property Use: Not reported Not reported Agency Id Number: Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported

Not reported Not reported Not reported Gal(s) Not reported 719 2011 Sun Ray Energy 8/12/2011 San Bernardino County Health Department Not reported Yes Not reported Not reported Coolant 200 Not reported The substance spilled from a valve after a maintenance operation. 4-5662 10/05/2014

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Database(s)

EDR ID Number EPA ID Number

#### SUNRAY ENERGY INC (Continued)

Vehicle Make/year: Vehicle License Number: Vehicle State: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: Waterway: Spill Site: Cleanup By: Containment: What Happened: Type: Measure: Other: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Site Type: E Date: Substance: Quantity Released: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

OES Incident Number: OES notification: OES Date: OES Time: Incident Date: Date Completed:

Not reported No Not reported Merchant/Business No Not reported Not reported Not reported Not reported Not reported PETROLEUM Gal(s) Not reported 815 2014 Sunray 10/5/2014 Not reported Not reported Yes Not reported Not reported Chevron, Heat Transfer Fluid, Caloria 200 Not reported Not reported Not reported Not reported Not reported Not reported No No No No No No No Mechanical No Not reported RP states that a tube failure caused the release. Cleanup is in progress. 4-5810

10/12/2014 Not reported Not reported Not reported **Not reported** 

Database(s)

EDR ID Number EPA ID Number

#### SUNRAY ENERGY INC (Continued)

Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Time Notified: Time Completed: Surrounding Area: Estimated Temperature: Property Management: More Than Two Substances Involved?: Resp Agncy Personel # Of Decontaminated: Responding Agency Personel # Of Injuries: Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Others Number Of Injuries: Others Number Of Fatalities: Vehicle Make/year: Vehicle License Number: Vehicle State: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: No Waterway: Other Spill Site: Cleanup By: No Containment: What Happened: Type: Measure: Other: Type: Measure: Gal(s) Other: Date/Time: 2045 Year: 2014 Agency: Incident Date: Admin Agency: Amount: Contained: Yes Site Type: E Date: Substance: Quantity Released: 1500 Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: No #2 Pipeline: No #3 Pipeline: No #1 Vessel >= 300 Tons: No

Not reported PETROLEUM Not reported Sunray Energy 10/12/2014 Not reported Not reported Not reported Not reported Chevron Heat Transfer Fluid aka Caloria Not reported Not reported Not reported Not reported Not reported Not reported

Database(s) EPA ID

EDR ID Number EPA ID Number

#### SUNRAY ENERGY INC (Continued)

#2 Vessel >= 300 Tons: No #3 Vessel >= 300 Tons: No Evacs: No Injuries: Mechanical Fatals: No Comments: Not reported Description: Per the caller a mechanical tube failure caused the spill. OES Incident Number: 4-5422 OES notification: 09/24/2014 OES Date: Not reported Not reported OES Time: Incident Date: Not reported Date Completed: Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Not reported Property Management: More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No Waterway: Not reported Spill Site: Other Cleanup By: No Containment: Not reported What Happened: Not reported Type: Not reported Measure: Not reported Other: Not reported PETROLEUM Type: Measure: Gal(s) Other: Not reported Date/Time: 1100 Year: 2014 Agency: SunRay Energy Inc Incident Date: 9/24/2014 Not reported Admin Agency: Amount: Not reported

Database(s)

EDR ID Number EPA ID Number

#### SUNRAY ENERGY INC (Continued)

Contained: Site Type: E Date: Substance: Quantity Released: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description: OES Incident Number: OES notification: OES Date: OES Time: Incident Date: Date Completed: Property Use: Agency Id Number: Agency Incident Number: Time Notified: Time Completed: Surrounding Area: Estimated Temperature: Property Management: More Than Two Substances Involved?: Resp Agncy Personel # Of Decontaminated: Responding Agency Personel # Of Injuries: Responding Agency Personel # Of Fatalities: Others Number Of Decontaminated: Others Number Of Injuries:

Others Number Of Fatalities:

Vehicle License Number:

CA DOT PUC/ICC Number:

Reporting Officer Name/ID:

Vehicle Make/year:

Vehicle Id Number:

Company Name:

Facility Telephone:

Waterway Involved:

Report Date:

Waterway:

Vehicle State:

Yes Not reported Not reported Heat Transfer Fluid 100 Not reported Not reported Not reported Not reported Not reported Not reported No No No No No No No Mechanical No Not reported Mechanical failure of a valve caused this to the soil. The release was within a solar field. No waterways were affected.

15-0215 01/12/2015 Not reported No None

Database(s)

EDR ID Number EPA ID Number

#### SUNRAY ENERGY INC (Continued)

Spill Site: Cleanup By: Containment: What Happened: Type: Measure: Other: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Site Type: E Date: Substance: Quantity Released: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

OES Incident Number: OES notification: OES Date: OES Time:

Other **On-Site Personnel** Not reported Not reported Not reported Not reported Not reported CHEMICAL Gal(s) Not reported 1440 2015 SunRay Energy 2015-01-12 00:00:00 San Bernardino County Fire Department Not reported Yes None Not reported Therminal Heat Transfer Fluid 100 Not reported Not reported Not reported Not reported Not reported Not reported No No No No No No No No No Not reported Caller states human error caused the release of the substance onto soil near a power block (outside of the building). The incident involved one employee leaving several valves in the system in the open position while another employee, not knowing the status of the valves, pressurized the system causing the release. The employees immediately began to use an "evac trailer" to

immediately began to use an "evac trailer" to recover the released substance. It is unknown how much of the release has been recovered. The location of the release is in the Mojave Desert. No waterways were impacted. The staff is conducting an internal investigation to determine the extent of the release and a more thorough clean-up.

10535 Not reported 10/17/1995 07:58:35 AM

Database(s)

EDR ID Number **EPA ID Number** 

#### SUNRAY ENERGY INC (Continued)

Incident Date: Not reported Date Completed: Not reported Property Use: Agency Id Number: Agency Incident Number: Time Notified: Time Completed: Surrounding Area: Estimated Temperature: Property Management: More Than Two Substances Involved?: Resp Agncy Personel # Of Decontaminated: Responding Agency Personel # Of Injuries: Responding Agency Personel # Of Fatalities: Others Number Of Decontaminated: Others Number Of Injuries: Others Number Of Fatalities: Vehicle Make/year: Vehicle License Number: Vehicle State: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: Waterway: Spill Site: Cleanup By: Containment: What Happened: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: NO Site Type: E Date: Substance: Unknown: Substance #2: Substance #3: Evacuations: NO Number of Injuries: NO Number of Fatalities: NO #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons:

Not reported YES Not reported Not reported daggett personnel Not reported Not reported CHEMICAL Not reported Not reported Not reported 1995 daggett leasing 1010 16oct95 Not reported 75 gals IND PLT Not reported therminol vt-1 Not reported Not reported

Database(s) EPA ID I

EDR ID Number EPA ID Number

S103989872

#### SUNRAY ENERGY INC (Continued)

Evacs: Not reported Not reported Injuries: Fatals: Not reported Comments: Not reported Description: drain valve failed allowing heat exchanger to release onto bare soil. OES Incident Number: 12700 OES notification: Not reported OES Date: 3/9/1996 01:20:24 PM OES Time: Incident Date: Not reported Not reported Date Completed: Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: YES Waterway: Not reported Spill Site: Not reported Cleanup By: daggett leasing corp Containment: Not reported What Happened: Not reported PETROLEUM Type: Measure: Not reported Other: Not reported Date/Time: Not reported Year: 1996 Agency: daggett leasing corp Incident Date: 1215 09Mar96 Admin Agency: Not reported Amount: 50-75 gals Contained: NO OTHER Site Type: E Date: Not reported Substance: caloria chevron heat transfer fluid Unknown: Not reported

Database(s)

EDR ID Number EPA ID Number

#### SUNRAY ENERGY INC (Continued)

Substance #2: Not reported Not reported Substance #3: Evacuations: NO Number of Injuries: NO Number of Fatalities: NO #1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported Description: flex hose failure. OES Incident Number: 10-7362 OES notification: 12/08/2010 OES Date: Not reported OES Time: Not reported Incident Date: Not reported Not reported Date Completed: Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Not reported Vehicle State: Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No Waterway: Not reported Spill Site: Utilities/Substation Cleanup By: Contractor Containment: Not reported What Happened: Not reported Type: Not reported Measure: Bbl.(s) Other: Not reported Date/Time: 200

Database(s)

EDR ID Number EPA ID Number

### SUNRAY ENERGY INC (Continued)

UNRAY ENERGY INC	C (Continued)	
Year:		2010
Agency:		Sunray Energy
Incident Date:		12/8/2010
Admin Agency:		San Bernardino County Health Department
Amount:		Not reported
Contained:		Yes
Site Type:		Not reported
E Date:		Not reported
Substance:		Mineral oil
Unknown:		Not reported
Substance #2:		Not reported
Substance #3:		Not reported
Evacuations:		Not reported
Number of Injurie	s.	Not reported
Number of Fatalit		Not reported
#1 Pipeline:		Not reported
#2 Pipeline:		Not reported
#3 Pipeline:		Not reported
#1 Vessel >= 300	Tons:	Not reported
#2 Vessel >= 300		Not reported
#3 Vessel >= 300		Not reported
Evacs:		Not reported
Injuries:		Not reported
Fatals:		Not reported
Comments:		Not reported
Description:		Mechanical failure caused this release to soil
Description.		only
Facility Status: Expiration Date: Region: Facility ID: Owner: Permit Number:	LARGE QUANTITY GENER ACTIVE 12/31/2015 SAN BERNARDINO FA0006101 COGENTRIX LLC	
Owner: Permit Number:	COGENTRIX LLC PT0003849 HAZARDOUS MATERIALS ACTIVE 12/31/2015 SAN BERNARDINO FA0006101 COGENTRIX LLC	31-50 CHEMICALS
Permit Number:	PT0021779	

Database(s)

EDR ID Number EPA ID Number

#### S103989872

#### SUNRAY ENERGY INC (Continued)

Permit Category: EPCRA FACILITY Facility Status: INACTIVE Expiration Date: 12/31/2013

#### **A**8

#### Target 35100 SANTA FE ST (SUNRAY ENERGY PLANT) Property DAGGETT, CA 92327

#### Site 8 of 38 in cluster A

Actual: 1945 ft.

CF	HMIRS:	
01	OES Incident Number:	10-7107
	OES notification:	11/26/2010
	OES Date:	Not reported
	OES Time:	Not reported
	Incident Date:	Not reported
	Date Completed:	Not reported
	Property Use:	Not reported
	Agency Id Number:	Not reported
	Agency Incident Number:	Not reported
	Time Notified:	Not reported
	Time Completed:	Not reported
	Surrounding Area:	Not reported
	Estimated Temperature:	Not reported
	Property Management:	Not reported
	More Than Two Substances Involved?:	Not reported
	Resp Agncy Personel # Of Decontaminated:	Not reported
	Responding Agency Personel # Of Injuries:	Not reported
	Responding Agency Personel # Of Fatalities:	Not reported
	Others Number Of Decontaminated:	Not reported
	Others Number Of Injuries:	Not reported
	Others Number Of Fatalities:	Not reported
	Vehicle Make/year:	Not reported
	Vehicle License Number:	Not reported
	Vehicle State:	Not reported
	Vehicle Id Number:	Not reported
	CA DOT PUC/ICC Number:	Not reported
	Company Name:	Not reported
	Reporting Officer Name/ID:	Not reported
	Report Date:	Not reported
	Facility Telephone:	Not reported
	Waterway Involved:	No
	Waterway:	Not reported
	Spill Site:	Utilities/Substation
	Cleanup By:	Reporting Party
	Containment:	Not reported
	What Happened:	Not reported
	Туре:	Not reported
	Measure:	Gal(s)
	Other:	Not reported
	Date/Time:	400
	Year:	2010
	Agency:	Sunray Energy
	Incident Date:	11/26/2010
	Admin Agency:	San Bernardino County Health Department
	Amount:	Not reported
	Contained:	Yes
	Site Type:	Not reported

CA CHMIRS	S110982783
	N/A

Database(s)

EDR ID Number EPA ID Number

	(Continued)			S110982783
	E Date : Substance: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline : #2 Pipeline : #3 Pipeline : #3 Pipeline : #1 Vessel >= 300 Tons #2 Vessel >= 300 Tons #3 Vessel >= 300 Tons Evacs: Injuries: Fatals: Comments: Description:	Not reported		
A9 Target Property	SEGS I & II - DAGGETT 35100 SANTE FE RD DAGGETT, CA 92327		CA WDS	S105255589 N/A
	Site 9 of 38 in cluster A			
Actual: 1945 ft.	WDS: Facility ID: Facility Type: Facility Type: Facility Status: NPDES Number: Subregion: Facility Telephone: Facility Contact: Agency Name: Agency Address: Agency Contact: Agency Contact: Agency Contact: Agency Telephone: Agency Type: SIC Code: SIC Code 2: Primary Waste Type:	South Lahontan 364550001 Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping. Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements. Not reported 0 7602543381 CHRIS MILLNER SUNRAY ENERGY INC PO BOX 338 DAGGETT 92327 ERIC WILLS 7602543381 Private 4961 Not reported Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category. NONCON		
	Waste Type2: Waste2:	Not reported Cooling Water: Noncontact		

EDR ID Number Database(s) EPA ID Number

#### SEGS I & II - DAGGETT (Continued)

#### S105255589

Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Not reported
Secondary Waste Type	: Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

Not reported

Not reported

Not reported

### A10

Target

35100 SANTA FE ST. DAGGETT, CA 92327 Property

#### Site 10 of 38 in cluster A

CHMIRS: Actual: 9-0239 OES Incident Number: 1945 ft. OES notification: 01/18/1999 OES Date: Not reported OES Time: Not reported Incident Date: Not reported Date Completed: Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Not reported Vehicle Make/year: Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported

Reporting Officer Name/ID:

Report Date:

Facility Telephone:

CA CHMIRS \$105650710 N/A

Database(s)

EDR ID Number **EPA ID Number** 

#### S105650710

(Continued)

Site

Waterway Involved: Waterway: Spill Site: Cleanup By: Containment: What Happened: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Site Type: E Date: Substance: Gallons: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

No Not reported Not reported Responsible Party Not reported Not reported Not reported Not reported Not reported Not reported 1999 Sun Ray Energy 1/16/199912:00:00 AM San Bernardino County Health Department Not reported Yes Industrial Plant Not reported Therminol VP-1 300 0 Not reported Not reported 0 0 0 Not reported Improper valve lineup resulted in a tank overflow. All 300 gallons went to the soil. Cleanup is nearly completed.

OES Incident Number: 7-2217 OES notification: 06/02/1997 OES Date: OES Time: Incident Date: Date Completed: Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported

Not reported Not reported Not reported

Database(s)

EDR ID Number **EPA ID Number** 

#### (Continued)

Type:

Year:

Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No Waterway: Not reported Spill Site: Not reported Reporting Party Cleanup By: Containment: Not reported What Happened: Not reported Not reported Measure: Not reported Other: Not reported Date/Time: Not reported 1997 Agency: Daggett Lease Inc. 6/2/199712:00:00 AM Incident Date: San Bernardino County Health Department Admin Agency: Amount: Not reported Contained: Yes Site Type: Utilities/Substation Not reported E Date: Substance: heat transfer oil Gallons: 210 Unknown: 0 Substance #2: Not reported Substance #3: Not reported Evacuations: 0 Number of Injuries: 0 Number of Fatalities: 0 #1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported Description: contorl valve failed and collection system overflowed. at the solor power plant

Database(s)

EDR ID Number EPA ID Number

DAGGETT LEASING CORP LUZ SOLAR 35100 SANTA FE STREET DAGGETT, CA, 92327		CA NPDES	S117698563 N/A
Site 11 of 38 in cluster A			
	Not reported Not reported Not reported 6B 279546 Not reported Industrial Not reported 6B361008014 Not reported 6B361008014 Not reported Not reported O5/09/2008 01/14/1993 Terminated 01/14/1993 Terminated 01/14/1993 190 Acres Edward W Luton Not reported 760-254-3381 Not reported Not reported Not reported Not reported Not reported Not reported Daggett Leasing Corp PO Box 373 Daggett California		
OPERATOR CONTACT NAME: OPERATOR CONTACT TITLE: OPERATOR CONTACT PHONE: OPERATOR CONTACT PHONE EXT:	Not reported 760-254-3381 Not reported		
OPERATOR CONTACT EMAIL: OPERATOR TYPE: DEVELOPER NAME: DEVELOPER ADDRESS: DEVELOPER CITY: DEVELOPER STATE:	Not reported Private Business Not reported Not reported Not reported California		
DEVELOPER ZIP: DEVELOPER CONTACT NAME: DEVELOPER CONTACT TITLE: CONSTYPE LINEAR UTILITY IND: EMERGENCY PHONE NO: EMERGENCY PHONE EXT: CONSTYPE ABOVE GROUND IND:	Not reported Not reported Not reported Not reported 760-254-3381 Not reported Not reported		
	35100 SANTA FE STREET DAGGETT, CA 92327 Site 11 of 38 in cluster A NPDE S: Npdes Number: Facility Status: Agency Id: Region: Regulatory Measure Id: Order No: Regulatory Measure Type: Place Id: WDID: Program Type: Adoption Date Of Regulatory Measure: Effective Date Of Regulatory Measure: Effective Date Of Regulatory Measure: Termination Date Of Regulatory Measure: Discharge Address: Discharge Address: Discharge City: Discharge City: Discharge Zip: RECEIVED DATE: PROCESSED DATE: PROCESSED DATE: STATUS CODE NAME: STATUS CODE NAME: STATUS DATE: PLACE SIZE: PLACE SIZE: PLACE SIZE: PLACE SIZE: PLACE SIZE: PLACE SIZE: NEACILITY CONTACT NAME: FACILITY CONTACT PHONE EXT: FACILITY CONTACT PHONE EXT: OPERATOR CONTACT PHONE COPERATOR CONTACT PHONE COPERATOR CONTACT PHONE COPERATOR CONTACT PHONE COPERATOR CONTACT PHONE FACIDPER CONTACT PHONE FACIDPER CONTACT PHONE FACIDPER CONTACT PHONE FACIDPER CONTACT PHONE EXT: OPERATOR CONTACT PHONE EXT: OPERATOR CONTACT PHONE EXT: CONSTYPE LINEAR UTILITY IND: EMERGENCY PHONE EXT:	35100 SANTA FE STREET         DAGGETT, CA 92327         Site 11 of 38 in cluster A         NPDES:         Ndes Number:       Not reported         Facility Status:       Not reported         Agency Id:       Not reported         Regulatory Measure Id:       2795.46         Order No:       Not reported         Regulatory Measure Type:       Industrial         Place Id:       Not reported         WDD:       6B361008014         Program Type:       Not reported         Effective Date Of Regulatory Measure:       Not reported         Effective Date Of Regulatory Measure:       Not reported         Discharge Name:       Not reported         Discharge State:       Not reported         Discharge City:       Not reported         Discharge State:       Not reported         Discharge City:       Not reported         Discharge State:       Not reported         Discharge State:       Not reported	store       Site 11 of 38 in cluster A         Site 11 of 38 in cluster A         NPDES:         Nodes Number:       Not reported         Facility Status:       Not reported         Agency Id:       Not reported         Regulatory Measure Id:       279546         Order No:       Not reported         Regulatory Measure Type:       Industrial         Place Id:       Not reported         Program Type:       Industrial         Place Id:       Not reported         Adoption Date Of Regulatory Measure:       Not reported         Expiration Date Of Regulatory Measure:       Not reported         Expiration Date Of Regulatory Measure:       Not reported         Discharge Name:       Not reported         Discharge State:       Not reported         PAOCE SIZE:       100         PAOCE SIZE:       100         PAOCE SI

Map ID Direction			MAP FINDINGS		
Distance Elevation	Site			Database(s)	EDR ID Number EPA ID Number
	DAGGETT LEASING CO	ORP LUZ SOLAR (Cont	tinued)		S117698563
	CONSTYPE BELOW	W GROUND IND:	Not reported		
	CONSTYPE CABLE		Not reported		
	CONSTYPE COMM		Not reported		
			Not reported		
	CONSTYPE ELECT CONSTYPE GAS L		Not reported Not reported		
	CONSTITUE GAS L		Not reported		
	CONSTYPE OTHER		Not reported		
	CONSTYPE OTHER		Not reported		
	CONSTYPE RECO	NS IND:	Not reported		
	CONSTYPE RESID	ENTIAL IND:	Not reported		
	CONSTYPE TRANS	SPORT IND:	Not reported		
	CONSTYPE UTILIT		Not reported		
	CONSTYPE UTILIT		Not reported		
	CONSTYPE WATE		Not reported		
	DIR DISCHARGE U	-	Not reported		
	RECEIVING WATE CERTIFIER NAME:		Mojave River Not reported		
	CERTIFIER NAME.		Not reported		
	CERTIFICATION D		Not reported		
	PRIMARY SIC:		4911-Electric Services		
	SECONDARY SIC:		Not reported		
	TERTIARY SIC:		Not reported		
A12				ERNS	2014096343
Target	35100 SANTE FE ST				N/A
Property	DAGGETT, CA 92327				
	Site 12 of 38 in cluster A	A			
Actual:					
1945 ft.			viewing on your computer to access		
	d	dditional ERNS detail in	the EDR Site Report.		
A13				ERNS	201407 5913
Target	35100 SANTE FE ST				N/A
Property	DAGGETT, CA 92327				
	Site 13 of 38 in cluster A	A			
Actual:	C	Lick this hyperlink while	viewing on your computer to access		
1945 ft.		dditional ERNS detail in			
A14				ERNS	2014098107
Target	35100 SANTE FE ST				N/A
Property	DAGGETT, CA 92327				
	Site 14 of 38 in cluster A	A			
Astrol					
Actual: 1945 ft.			viewing on your computer to access		
1340 IL.	a	dditional ERNS detail in	the EDR Site Report.		

Map ID		MAP FINDINGS		
Direction Distance		μ		EDR ID Number
Elevation	Site		Database(s)	EPA ID Number
A15			ERNS	2011985715
Target	35100 SANTE FE ST		LINIO	N/A
Property	DAGGETT, CA 92327			
	Site 15 of 38 in cluster	A		
Actual: 1945 ft.	Ĺ	Click this hyperlink while viewing on your computer to access		
1945 II.	æ	additional ERNS detail in the EDR Site Report.		
A16 Target	35100 SANTE FE ST		ERNS	2014097442 N/A
Property	DAGGETT, CA 92327			
	Site 16 of 38 in cluster	A		
Actual:	(	Click this hyperlink while viewing on your computer to access		
1945 ft.		additional ERNS detail in the EDR Site Report.		
A17	SUNRAY ENERGY INC		CA HAZNET	S113468546
Target Property	35100 SANTA FE ST DAGGETT, CA 92327			N/A
	Site 17 of 38 in cluster	<b>A</b>		
Actual:	HAZNET:			
1945 ft.	envid:	S113468546		
	Year:	2010		
	GEPAID:			
	Contact:	ROBERT LAWRENCE		
	Telephone: Mailing Name:	7602543383 Not reported		
	Mailing Address:	Not reported PO BOX 338		
	Mailing City,St,Zip:			
	Gen County:	Not reported		
	TSD EPA ID:	AZR000501510		
	TSD County:	Not reported		
	Waste Category:	Other inorganic solid waste		
	Disposal Method:	Storage, Bulking, And/Or Transfer Off SiteNo Treatment/Reovery		
	•	(H010-H129) Or (H131-H135)		
	Tons:	0.25		
	Facility County:	San Bernardino		
	envid:	S113468546		
	Year:	2010		
	GEPAID:	CAP000200188		
	Contact:	ROBERT LAWRENCE		
	Telephone:	7602543383		
	Mailing Name:			
	Mailing Address:			
	Mailing City,St,Zip: Gen County:	DAGGETT, CA 92327 Not reported		
	TSD EPA ID:	AZR000501510		
	TSD County:	Not reported		
	Waste Category:	Unspecified aqueous solution		
	Disposal Method:	Storage, Bulking, And/Or Transfer Off SiteNo Treatment/Reovery		
		(H010-H129) Or (H131-H135)		
	Tons:	0.924		
	Facility County:	San Bemardino		

Database(s)

EDR ID Number EPA ID Number

#### SUNRAY ENERGY INC (Continued)

envid: S113468546 Year: 2010 GEPAID: CAP000200188 ROBERT LAWRENCE Contact: Telephone: 7602543383 Mailing Name: Not reported Mailing Address: POBOX 338 Mailing City, St, Zip: DAGGETT, CA 92327 Gen County: Not reported TSD EPA ID: AZR000501510 Not reported TSD County: Unspecified oil-containing waste Waste Category: **Disposal Method:** Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) Tons: 0.2 Facility County: San Bernardino envid: S113468546 Year: 2010 GEPAID: CAP000200188 Contact: ROBERT LAWRENCE Telephone: 7602543383 Mailing Name: Not reported Mailing Address: POBOX 338 Mailing City, St, Zip: DAGGETT, CA 92327 Gen County: Not reported TSD EPA ID: AZR000501510 TSD County: Not reported Waste Category: Waste oil and mixed oil Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery Disposal Method: (H010-H129) Or (H131-H135) Tons: 0.19 Facility County: San Bernardino

#### A18 Target 35100 SANTA FE ST Property DAGGETT, CA 92327

#### Site 18 of 38 in cluster A

CHMIRS: Actual: 1945 ft. OES Incident Number: 4-1381 OES notification: 03/06/2014 OES Date: Not reported OES Time: Not reported Incident Date: Not reported Date Completed: Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported

#### S113468546

CA CHMIRS S116777938 N/A

Database(s)

EDR ID Number EPA ID Number

S116777938

#### (Continued)

Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Others Number Of Injuries: Others Number Of Fatalities: Vehicle Make/year: Vehicle License Number: Vehicle State: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: No Waterway: Spill Site: Other Cleanup By: No Containment: What Happened: Type: Measure: Other: Type: Measure: Gal(s) Other: Date/Time: 1200 2014 Year: Agency: Incident Date: Admin Agency: Amount: Contained: Yes Site Type: E Date: Substance: Quantity Released: 200 Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: No #2 Pipeline: No #3 Pipeline: No #1 Vessel >= 300 Tons: No #2 Vessel >= 300 Tons: No #3 Vessel >= 300 Tons: No Evacs: No Injuries: Fatals: No Comments: Description:

Not reported PETROLEUM Not reported Sunray Energy 3/6/2014 Not reported Not reported Not reported Not reported Mineral Oil Not reported Caller states a mechanical failure occurred resulting in the release of 200 gallons of mineral oil onto dirt, the RP company is handling the clean up and it is on going, no waterways were impacted.

Database(s) EPA

EDR ID Number EPA ID Number

A19 Target Property	DAGGETT LEASING CORP 35100 SANTA FE STREET DAGGETT, CA 92311		CA EMI	1006093859 N/A
	Site 19 of 38 in cluster A			
Actual: 1945 ft.	EMI: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:			
	Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	1995 36 MD 24800899 MOJ 4911 MOJAVE DESERT AQMD Not reported Not reported 7 6 31 13 0 53 53		
	Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year:	1996 36 MD 24800899 MOJ 4911 MOJAVE DESERT AQMD Not reported Not reported 7 6 31 13 0 53 53 1997		

EDR ID Number Database(s) EPA ID Number

## DAGGETT LEASING CORP (Continued)

County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	36 MD 24800899 MOJ 4911 MOJAVE DESERT AQMD Not reported Not reported 7 6 31 13 0 53 53
Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	1998 36 MD 24800899 MOJ 4911 MOJAVE DESERT AQMD Not reported Not reported 7 6 31 13 0 53 53
Year:	1999
County Code:	36
Air Basin:	MD
Facility ID:	24800899
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	31
NOX - Oxides of Nitrogen Tons/Yr:	13
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	53
Part. Matter 10 Micrometers & Smllr Tons/Yr:	53
Year:	2000
County Code:	36
Air Basin:	MD
Facility ID:	24800899
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD

Map ID	
Direction	
Distance	
Elevation	Site

Database(s)

EDR ID Number EPA ID Number

## DAGGETT LEASING CORP (Continued)

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	31
NOX - Oxides of Nitrogen Tons/Yr:	13
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	53
Part. Matter 10 Micrometers & Smllr Tons/Yr:	53
Year:	2001
County Code:	36
Air Basin:	MD
Facility ID:	24800899
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	31
NOX - Oxides of Nitrogen Tons/Yr:	13
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	53
Part. Matter 10 Micrometers & Smllr Tons/Yr:	53
Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	2002 36 MD 24800899 MOJ 4911 MOJAVE DESERT AQMD Y Not reported 7 6 31 13 0 53 53
Year:	2003
County Code:	36
Air Basin:	MD
Facility ID:	24800899
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	31
NOX - Oxides of Nitrogen Tons/Yr:	13

DAGGETT LEASING CORP (Continued)

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	53
Part. Matter 10 Micrometers & Smllr Tons/Yr:	53
Year:	2004
County Code:	36
Air Basin:	MD
Facility ID:	24800899
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
	6.7
Total Organic Hydrocarbon Gases Tons/Yr:	•
Reactive Organic Gases Tons/Yr:	6.30053
Carbon Monoxide Emissions Tons/Yr:	31.2
NOX - Oxides of Nitrogen Tons/Yr:	13
SOX - Oxides of Sulphur Tons/Yr:	0.1
Particulate Matter Tons/Yr:	53.4
Part. Matter 10 Micrometers & Smllr Tons/Yr:	53.22354
Year:	2005
County Code:	36
Air Basin:	MD
Facility ID:	24802009
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Not reported
	•
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.9526066
Reactive Organic Gases Tons/Yr:	.47974263003
Carbon Monoxide Emissions Tons/Yr:	7.21 52894
NOX - Oxides of Nitrogen Tons/Yr:	12.0962324
SOX - Oxides of Sulphur Tons/Yr:	.0526378
Particulate Matter Tons/Yr:	.6582376
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.6580591864
Year:	2005
County Code:	36
Air Basin:	MD
Facility ID:	24800899
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.2681234
Reactive Organic Gases Tons/Yr:	.12218556878
Carbon Monoxide Emissions Tons/Yr:	.4509127
NOX - Oxides of Nitrogen Tons/Yr:	2.2460826
SOX - Oxides of Sulphur Tons/Yr:	.0141088
Particulate Matter Tons/Yr:	.0718143
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.0716287488
Year:	2006
County Code:	36

Database(s) E

EDR ID Number EPA ID Number

## DAGGETT LEASING CORP (Continued)

Air Basin:	MD
Facility ID:	24800899
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.2681234
Reactive Organic Gases Tons/Yr:	.12218556878
Carbon Monoxide Emissions Tons/Yr:	.4509127
NOX - Oxides of Nitrogen Tons/Yr:	2.2460826
SOX - Oxides of Sulphur Tons/Yr:	.0141088
Particulate Matter Tons/Yr:	.0718143
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.0716287488
	.0710207400
Veen	0007
Year:	2007
County Code:	36
Air Basin:	MD
Facility ID:	24800899
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
	-
Total Organic Hydrocarbon Gases Tons/Yr:	.2681234
Reactive Organic Gases Tons/Yr:	.12218556878
Carbon Monoxide Emissions Tons/Yr:	.4509127
	2.2460826
NOX - Oxides of Nitrogen Tons/Yr:	2.2460826
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr.	.0141088
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr:	.014 1088 .071 8143
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr.	.0141088
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	.0141088 .0718143 .0716287488
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr:	.014 1088 .071 8143
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	.0141088 .0718143 .0716287488
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code:	.0141088 .0718143 .0716287488 2007 36
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin:	.0141088 .0718143 .0716287488 2007 36 MD
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID:	.0141088 .0718143 .0716287488 2007 36 MD 24802009
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID:	.0141088 .0718143 .0716287488 2007 36 MD 24802009
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376 .6580591864
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376 .6580591864 2008 36
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376 .6580591864 2008 36 MD
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376 .6580591864 2008 36
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376 .6580591864 2008 36 MD
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376 .6580591864 2008 36 MD 24802009
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376 .6580591864 2008 36 MD 24802009 MOJ 4911
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376 .6580591864 2008 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD
NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code:	.0141088 .0718143 .0716287488 2007 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Y Not reported .9526066 .47974263003 7.2152894 12.0962324 .0526378 .6582376 .6580591864 2008 36 MD 24802009 MOJ 4911

Database(s) E

EDR ID Number EPA ID Number

1006093859

### DAGGETT LEASING CORP (Continued)

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.9526066
Reactive Organic Gases Tons/Yr:	.47974263003
Carbon Monoxide Emissions Tons/Yr:	7.2152894
NOX - Oxides of Nitrogen Tons/Yr:	12.0962324
SOX - Oxides of Sulphur Tons/Yr:	.0526378
Particulate Matter Tons/Yr:	.6582376
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.6580591864
Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	2008 36 MD 24800899 MOJ 4911 MOJAVE DESERT AQMD Not reported Not reported .2681234 .12218556878 .4509127 2.2460826 .0141088 .0718143 .0716287488
Year:	2009
County Code:	36
Air Basin:	MD
Facility ID:	24800899
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	0.26812340000000001
Total Organic Hydrocarbon Gases Tons/Yr:	0.12218556878
Reactive Organic Gases Tons/Yr:	0.4509127
Carbon Monoxide Emissions Tons/Yr:	2.2460825999999998
NOX - Oxides of Nitrogen Tons/Yr:	1.4108799999999998
SOX - Oxides of Sulphur Tons/Yr:	1.4108799999999998
Particulate Matter Tons/Yr:	2.27.181429999999998
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2.27.162874880000003E-2
Year:	2009
County Code:	36
Air Basin:	MD
Facility ID:	24802009
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.952606599999999997
Reactive Organic Gases Tons/Yr:	0.47974263003000001
Carbon Monoxide Emissions Tons/Yr:	7.215289399999999996
NOX - Oxides of Nitrogen Tons/Yr:	12.0962324
SOX - Oxides of Sulphur Tons/Yr:	5.26377999999999998E-2

Database(s)

EDR ID Number EPA ID Number

## DAGGETT LEASING CORP (Continued)

Particulate Matter Tons/Yr:	0.658237599999999998
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.65805918640000005
Year:	2010
County Code:	36
Air Basin:	MD
Facility ID:	24800899
Air District Name:	MOJ
SIC Code:	4911
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	0.2681234000000001
Total Organic Hydrocarbon Gases Tons/Yr:	0.12218556878
Reactive Organic Gases Tons/Yr:	0.4509127
Carbon Monoxide Emissions Tons/Yr:	2.2460825999999998
NOX - Oxides of Nitrogen Tons/Yr:	1.4108799999999998
SOX - Oxides of Sulphur Tons/Yr:	1.410879999999998
Particulate Matter Tons/Yr:	2.7.181429999999998-2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	7.162874880000003E-2
Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	2010 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Not reported Not reported 0.95260659999999997 0.4797426300300001 7.2152893999999996 12.0962324 5.2637799999999998E-2 0.65823759999999988 0.6580591864000005
Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	2011 36 MD 24800899 MOJ 4911 MOJAVE DESERT AQMD Not reported Not reported 0.2681234 0.12218556878 0.4509127 2.2460826 0.0141088 0.0718143 0.0716287488
Year:	2011
County Code:	36
Air Basin:	MD

Database(s) EPA ID

EDR ID Number EPA ID Number

1006093859

## DAGGETT LEASING CORP (Continued)

Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	24802009 MOJ 4911 MOJAVE DESERT AQMD Not reported Not reported 0.9526066 0.47974263003 7.2152894 12.0962324 0.0526378 0.6582376 0.6580591864
Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	2012 36 MD 24802009 MOJ 4911 MOJAVE DESERT AQMD Not reported Not reported 0.9526066 0.47974263003 7.2152894 12.0962324 0.0526378 0.6582376 0.6580591864
Year: County Code: Air Basin: Facility ID: Air District Name: SIC Code: Air District Name: Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: SOX - Oxides of Sulphur Tons/Yr: Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:	2012 36 MD 24800899 MOJ 4911 MOJAVE DESERT AQMD Not reported Not reported 0.2681234 0.12218556878 0.4509127 2.2460826 0.0141088 0.0718143 0.0716287488

Map ID	MAP FINDINGS		
Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
A20 Target Property	35100 SANTE FE ST DAGGETT, CA 92327	ERNS	2013059162 N/A
Actual: 1945 ft.	Site 20 of 38 in cluster A <u>Click this hypedink</u> while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
A21 Target Property	35100 SANTE FE ST DAGGETT, CA 0	ERNS	2002597821 N/A
Actual: 1945 ft.	Site 21 of 38 in cluster A <u>Click this hyperlink</u> while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
A22 Target Property	35100 SANTE FE ST DAGGETT, CA 92327	ERNS	2015105500 N/A
	Site 22 of 38 in cluster A		
Actual: 1945 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
A23 Target Property	35100 SANTA FE POB 373 DAGGETT, CA 92327	ERNS	94369366 N/A
	Site 23 of 38 in cluster A		
Actual: 1945 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
A24 Target Property	35100 SANTA FE POB 373 DAGGETT, CA 92327	ERNS	96479251 N/A
	Site 24 of 38 in cluster A		
Actual: 1945 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
A25 Target Property	35100 SANTA FE DAGGETT, CA 92327	ERNS	96482748 N/A
	Site 25 of 38 in cluster A		
Actual: 1945 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		

Map ID	MAP FINDINGS		
Direction Distance			EDR ID Number
Elevation	Site	Database(s)	EPA ID Number
A26 Target Property	35100 SANTA FE ST. DAGGETT, CA	ERNS	99622394 N/A
	Site 26 of 38 in cluster A		
Actual: 1945 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
A27 Target Property	35100 SANTE FE ST DAGGETT, CA 92327	ERNS	99607648 N/A
	Site 27 of 38 in cluster A		
Actual: 1945 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
A28 Target Property	35100 SANTA FE DAGGETT, CA 92327	ERNS	94379582 N/A
	Site 28 of 38 in cluster A		
Actual: 1945 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
A29 Target Property	35100 SANTE FE ST DAGGETT, CA 92327	ERNS	97415619 N/A
	Site 29 of 38 in cluster A		
Actual: 1945 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
A30 Target Property	35100 SANTA FE POB 373 DAGGETT, CA 92327	ERNS	94380955 N/A
	Site 30 of 38 in cluster A		
Actual: 1945 ft.	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
A31 Target Property	SEGS 1 SOLAR FIELD 35100 SANTA FE STREET DAGGETT, CA 92327	CA CHMIRS	S105641747 N/A
	Site 31 of 38 in cluster A		
Actual: 1945 ft.	CHMIRS:06948OES Incident Number:06948OES notification:Not reportedOES Date:2/23/1995OES Time:05:34:50 PM		

Site

Database(s)

EDR ID Number EPA ID Number

#### S105641747

(Continued) Incident Date: Not reported Not reported Date Completed: Property Use: Not reported Not reported Agency Id Number: Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported Not reported CA DOT PUC/ICC Number: Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: YES Waterway: Not reported Spill Site: Not reported Cleanup By: DAGGETT LEASING Containment: Not reported What Happened: Not reported Type: PETROLEUM Measure: Not reported Other: Not reported Date/Time: Not reported Year: 1995 DAGGETT LEASING CORP SEGS 1 Agency: Incident Date: 0930 2/23/95 Admin Agency: Not reported Amount: 25 GAL Contained: NO Site Type: IND PLT E Date: Not reported Substance: OIL Unknown: Not reported Substance #2: Not reported Substance #3: Not reported Evacuations: NO Number of Injuries: NO Number of Fatalities: NO #1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported

FAILURE

Database(s)

EDR ID Number EPA ID Number

#### S105641747

## (Continued)

E	Not non-site d
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	VALVE FAILU

#### A32

#### 2A SOUTH FIELD, 35100 SANTA FE ST Target DAGGETT, CA Property

#### Site 32 of 38 in cluster A

Actual: 1945 ft.

CHMIRS:	
OES Incident Number:	7-4931
OES notification:	12/13/1997
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported No
Waterway Involved:	
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By: Containment:	Reporting Party Not reported
What Happened:	Not reported
Type: Measure:	Not reported
Other:	Not reported Not reported
Date/Time:	Not reported
Year:	1997
Agency:	DAGGETT LEASING
Incident Date:	12/13/199712:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
	Not reported

#### CA CHMIRS \$105648109 N/A

Database(s)

EDR ID Number EPA ID Number

#### S105648109

#### (Continued)

Contained: Site Type: E Date: Substance: Gallons: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

#### Yes Industrial Plant Not reported THERMINOL 70 0 Not reported Not reported 0 0 0 Not reported EQUIPMENT FAILURE CAUSED SPILL.

### A33

#### Target DAGGETT LEASING CORP 35100 SANTA FE ST Property DAGGETT, CA 92327

#### Site 33 of 38 in cluster A

Actual:	CHMIRS:	
1945 ft.	OES Incident Number:	528
	OES notification:	Not reported
	OES Date:	6/3/1994
	OES Time:	12:46:00 PM
	Incident Date:	Not reported
	Date Completed:	Not reported
	Property Use:	Not reported
	Agency Id Number:	Not reported
	Agency Incident Number:	Not reported
	Time Notified:	Not reported
	Time Completed:	Not reported
	Surrounding Area:	Not reported
	Estimated Temperature:	Not reported
	Property Management:	Not reported
	More Than Two Substances Involved?:	Not reported
	Resp Agncy Personel # Of Decontaminated:	Not reported
	Responding Agency Personel # Of Injuries:	Not reported
	Responding Agency Personel # Of Fatalities:	Not reported
	Others Number Of Decontaminated:	Not reported
	Others Number Of Injuries:	Not reported
	Others Number Of Fatalities:	Not reported
	Vehicle Make/year:	Not reported
	Vehicle License Number:	Not reported
	Vehicle State:	Not reported
	Vehicle Id Number:	Not reported
	CA DOT PUC/ICC Number:	Not reported
	Company Name:	Not reported
	Reporting Officer Name/ID:	Not reported

CA CHMIRS S105635454 N/A

Database(s)

EDR ID Number EPA ID Number

#### S105635454

(Continued)

Site

Report Date: Facility Telephone: Waterway Involved: Waterway: Spill Site: Cleanup By: Containment: What Happened: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Site Type: E Date: Substance: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

Not reported Not reported YES Not reported Not reported daggett leasing Not reported Not reported OTHER Not reported Not reported Not reported 1994 daggett leasing 0800/02june94 Not reported approx 150 gals NÖ OTHER Not reported therminol vp-1 Not reported Not reported Not reported NO NO NO Not reported flex hose failure caused release of heat transfer fluid to spill to ground

A34

# Target35100 SANTA FE ST SEGS 2 - 8RPropertyDAGGETT, CA 92327

#### Site 34 of 38 in cluster A

Actual: 1945 ft. CHMIRS: OES Incident Number: OES notification: OES Date: OES Time: Incident Date: Date Completed: Property Use: Agency Id Number: Agency Incident Number: Time Notified: Time Completed:

07326 Not reported 3/14/1995 12:22:23 PM Not reported CA CHMIRS \$105641377 N/A

Database(s)

EDR ID Number EPA ID Number

#### (Continued)

Surrounding Area: Estimated Temperature: Property Management: More Than Two Substances Involved?: Resp Agncy Personel # Of Decontaminated: Responding Agency Personel # Of Injuries: Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Others Number Of Injuries: Others Number Of Fatalities: Vehicle Make/year: Vehicle License Number: Vehicle State: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: Waterway: Spill Site: Cleanup By: Containment: What Happened: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Site Type: E Date: Substance: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

Not reported YES Not reported Not reported daggett leasing Not reported Not reported OTHER Not reported Not reported Not reported 1995 daggett leasing corp 1145/14mar95 Not reported 100 gals NO OTHER Not reported therminol Not reported Not reported Not reported NO NO NO Not reported set of isolation valves opened allowing fluid to spill to ground

#### S105641377

EDR ID Number Database(s) EPA ID Number

A35 Target Property	DAGGETT SEGS I & II 35100 SANTA FE ST DAGGETT, CA 92327		CA CHMIRS CA WDS	S105641205 N/A
	Site 35 of 38 in cluster A			
Actual:	CHMIRS:			
1945 ft.	OES Incident Number:	07504		
	OES notification:	Not reported		
	OES Date:	3/24/1995		
	OES Time:	11:42:42 AM		
	Incident Date:	Not reported		
	Date Completed:	Not reported		
	Property Use:	Not reported		
	Agency Id Number:	Not reported		
	Agency Incident Number:	Not reported		
	Time Notified:	Not reported		
	Time Completed:	Not reported		
	Surrounding Area:	Not reported		
	Estimated Temperature:	Not reported		
	Property Management:	Not reported		
	More Than Two Substances Involved?:	Not reported		
	Resp Agncy Personel # Of Decontaminated:	Not reported		
	Responding Agency Personel # Of Injuries:	Not reported		
	Responding Agency Personel # Of Fatalities: Others Number Of Decontaminated:	Not reported		
	Others Number Of Injuries:	Not reported Not reported		
	Others Number Of Fatalities:	Not reported		
	Vehicle Make/year:	Not reported		
	Vehicle License Number:	Not reported		
	Vehicle State:	Not reported		
	Vehicle Id Number:	Not reported		
	CA DOT PUC/ICC Number:	Not reported		
	Company Name:	Not reported		
	Reporting Officer Name/ID:	Not reported		
	Report Date:	Not reported		
	Facility Telephone:	Not reported		
	Waterway Involved:	YES		
	Waterway:	Not reported		
	Spill Site:	Not reported		
	Cleanup By:	daggett personnel		
	Containment:	Not reported		
	What Happened:	Not reported		
	Туре:	PETROLEUM		
	Measure:	Not reported		
	Other:	Not reported		
	Date/Time:	Not reported		
	Year:	1995		
	Agency:	daggett leasing corp SEGS1		
	Incident Date:	1050/24mar95		
	Admin Agency:	Not reported 15 gals		
	Amount: Contained:	NO		
	Site Type:	OTHER		
	E Date:	Not reported		
	E Dale. Substance:	chevron heat transfer oil HT		
	Unknown:	Not reported		
	Substance #2:	Not reported		
	Substance #3:	Not reported		

Database(s)

EDR ID Number EPA ID Number

# DAGGETT SEGS I & II (Continued)

Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	heat collection pipe element weld failure at
·	solar production plant
MDC.	
WDS:	On with Links and the ODIO100000
Facility ID:	South Lahontan 36l010399
Facility Type:	Other - Does not fall into the category of Municipal/Domestic,
<b>F</b> 111 <b>O</b> 1	Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is
	under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7
	are assigned by the Regional Board
Subregion:	0
Facility Telephone:	Not reported
Facility Contact:	CHRISTOPHER MILLNER
Agency Name:	DAGGETT LEASING CORP
Agency Address:	PO BOX 338
Agency City,St,Zip:	DAGGETT 92327
Agency Contact:	CHRISTOPHER MILLNER
Agency Telephone:	7602543881
Agency Type:	Private
SIC Code:	4911
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order
	should cause a relatively minor impairment of beneficial uses compared
	to a major or minor threat. Not: All nurds without a TTWQ will be
	considered a minor threat to water quality unless coded at a higher
	Level. A Zero (0) may be used to code those NURDS that are found to
	represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as
	cooling water dischargers or thosewho must comply through best
	management practices, facilities with passive waste treatment and
	disposal systems, such as septic systems with subsurface disposal, or
	dischargers having waste storage systems with land disposal such as
	· ·

Database(s)

EDR ID Number EPA ID Number

	DAGGETT SEGS I & II (Continued)		S105641205	
	dairy waste ponds.			
A36 Target Property	SEGS I & II - THREE SURFACE IMPOUNDMENTS & LAND TREATMENT UN 35100 SANTE FE RD Sy DAGGETT, CA 92327		CA CHMIRS CA LDS CA ENF CA WMUDS/SWAT	S101612545 N/A
	Site 36 of 38 in cluster A		CA WWODS/SWAT	
Actual: 1945 ft.	CHMIRS: OES Incident Number: OES notification: OES Date: OES Time: Incident Date: Date Completed: Property Use: Agency Id Number: Agency Incident Number: Time Notified: Time Completed: Surrounding Area: Estimated Temperature: Property Management: More Than Two Substances Involved?: Resp Agncy Personel # Of Decontaminated: Responding Agency Personel # Of Injuries: Responding Agency Personel # Of Fatalities: Others Number Of Decontaminated: Others Number Of Decontaminated: Others Number Of Injuries: Vehicle Make/year: Vehicle License Number: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: Waterway Involved: Waterway: Spill Site: Cleanup By: Containment: What Happened: Type: Measure:	Not reported Not reported Other Unknown Not reported Not reported		
	Other: Type: Measure: Other: Date/Time:	Not reported PETROLEUM Gal(s) Not reported 1440		
	Year: Agency: Incident Date: Admin Agency: Amount: Contained:	2015 NRC 2015-01-12 00:00:00 San Bernardino County Fire Depa Not reported Yes	artment	

EDR ID Number Database(s) EPA ID Number

SEGS I & II - THREE SURFACE IMPOUNDMENTS & LAND TREATMENT UN (Continued) S101612545			
Site Type:		Not reported	
E Date:		Not reported	
Substance:		Therminal BP	
Quantity Released:		100	
Unknown:		Not reported	
Substance #2:		Not reported	
Substance #3:		Not reported	
Evacuations:		Not reported	
Number of Injuries:		Not reported	
Number of Fatalities:		Not reported	
#1 Pipeline:		No	
#2 Pipeline:		No	
#3 Pipeline:		No	
#1 Vessel >= 300 Tons:		No	
#2 Vessel >= 300 Tons:		No	
#3 Vessel >= 300 Tons:		No	
Evacs:		No	
Injuries:		No	
Fatals:		No	
Comments:		Not reported	
Description:		Per NRC Fax: Caller is reporting that due to	
		valves being left open there was a discharge of	
		approximately 100 gallons of therminal BP to the	
		ground. REMEDIAL ACTIONS, Vacuumed the free	
		standing oil.	
OES Incident Number:		06733	
OES notification:		Not reported	
OES Date:		2/10/1995	
OES Time:		01:26:30 PM	
Incident Date:		Not reported	
Date Completed:		Not reported	
Property Use:		Not reported	
Agency Id Number:		Not reported	
Agency Incident Number:		Not reported	
Time Notified:		Not reported	
Time Completed:		Not reported	
Surrounding Area:		Not reported	
Estimated Temperature:		Not reported	
Property Management:		Not reported	
More Than Two Substances Invo		Not reported	
Resp Agncy Personel # Of Decor		Not reported	
Responding Agency Personel # C	•	Not reported	
Responding Agency Personel # C			
Others Number Of Decontaminat	ea:	Not reported	
Others Number Of Injuries:		Not reported	
Others Number Of Fatalities:		Not reported	
Vehicle Make/year: Vehicle License Number:		Not reported	
Vehicle State:		Not reported	
Vehicle Id Number:		Not reported Not reported	
CA DOT PUC/ICC Number:		Not reported	
Company Name:		Not reported	
Reporting Officer Name/ID:		Not reported	
Report Date:		Not reported	
Facility Telephone:		Not reported	
Waterway Involved:		YES	
		-	

EDR ID Number Database(s) EPA ID Number

SEGS I & II - THREE SURFACE IMPOUN	IDMENTS & LAND TREATMENT UN (Continued)	S101612545
Waterway:	Not reported	
Spill Site:	Not reported	
Cleanup By:	daggett leasing	
Containment:	Not reported	
What Happened:	Not reported	
Туре:	Not reported	
Measure:	Not reported	
Other:	Not reported	
Date/Time:	Not reported	
Year:	1995	
Agency:	daggett leasing	
Incident Date:	2/10/95 1240	
Admin Agency:	Not reported	
Amount:	100 gal	
Contained:	NO	
Site Type:	Not reported	
E Date:	Not reported	
Substance:	transfer oil	
Unknown:	Not reported	
Substance #2:	Not reported	
Substance #3:	Not reported	
Evacuations:	NO	
Number of Injuries:	NO	
Number of Fatalities:	NO	
#1 Pipeline:	Not reported	
#2 Pipeline:	Not reported	
#3 Pipeline:	Not reported	
#1 Vessel >= 300 Tons:	Not reported	
#2 Vessel >= 300 Tons:	Not reported	
#3 Vessel >= 300 Tons:	Not reported	
Evacs:	Not reported	
Injuries:	Not reported	
Fatals:	Not reported	
Comments:	Not reported	
Description:	equipment failure (Gasket)	
LDS:		
Global Id:	L10001994035	
Latitude:	34.85832	
Longitude:	-116.8196	
Case Type:	Land Disposal Site	
Status:	Open	
Status Date:	01/01/1965	
Lead Agency:	LAHONTAN RWQCB (REGION 6V)	
Caseworker:	Not reported	
Local Agency:	Not reported	
RB Case Number:	6B364550001	
LOC Case Number:	Not reported	
File Location:	Not reported	
Potential Media Affect:	Not reported	
EDR Link ID:	L10001994035	
Potential Contaminants of Concern:	•	
Site History:	Not reported	

EDR ID Number Database(s) EPA ID Number

#### SEGS I & II - THREE SURFACE IMPOUNDMENTS & LAND TREATMENT UN (Continued)

S101612545

Click here to access the California GeoTracker records for this facility:

ENF: Region: Facility Id: Agency Name: Place Type: Place Subtype: Facility Type: Agency Type: # Of Agencies: Place Latitude: Place Longitude: SIC Code 1: SIC Desc 1: SIC Code 2: SIC Desc 2: SIC Code 3: SIC Desc 3: NAICS Code 1: NAICS Desc 1: NAICS Code 2: NAICS Desc 2: NAICS Code 3: NAICS Desc 3: # Of Places: Source Of Facility: Design Flow: Threat To Water Quality: Complexity: Pretreatment: Facility Waste Type: Facility Waste Type 2: Facility Waste Type 3: Facility Waste Type 4: Program: Program Category1: Program Category2: # Of Programs: WDID: Reg Measure Id: Reg Measure Type: Region: Order #: Npdes# CA#: Major-Minor: Npdes Type: Reclamation: Dredge Fill Fee: 301H: Application Fee Amt Received: Status: Status Date: Effective Date: Expiration/Review Date: Termination Date:

6B 256224 Sunray Energy Inc Facility Not reported Industrial **Privately-Owned Business** 1 Not reported Not reported 4961 Steam and Air-Conditioning Supply Not reported **Reg Meas** 0.114 2 В X - Facility is not a POTW Cooling water: Noncontact Not reported Not reported Not reported LFNONOPER LNDISP LNDISP 1 6B364550001 147581 WDR 6B 96-160 Not reported Not reported Not reported N - No Not reported Not reported 5000 Active 02/06/2014 11/08/1996 11/08/2020 Not reported

EDR ID Number Database(s) EPA ID Number

WDR Review - Amend:		Not reported
WDR Review - Revise/Re	enew:	Not reported
		Not reported
WDR Review - No Action Required:		Not reported
WDR Review - Pending:		Not reported
WDR Review - Planned:		Not reported
Status Enrollee:		Ν
Individual/General:		I
Fee Code:		59 - Land Disposal Site not paying tipping fee
Direction/Voice:		Passive
Enforcement Id(EID):		398744
Region:		6B
Order / Resolution Number		Not reported
Enforcement Action Type	:	Staff Enforcement Letter
Effective Date:		10/16/2014
Adoption/Issuance Date:		10/16/2014
Achieve Date:		Not reported
Termination Date:		10/22/2014
ACL Issuance Date:		Not reported
EPL Issuance Date:		Not reported
Status:		Historical
Title:		SEL 10/16/2014 for Sunray Energy Inc
Description:		Submit spill reports for 10/5 and 10/12 discharge
		incidents. Reports are due 10/15 and 10/22, respectivel
Program:		LFNONOPER
Latest Milestone Complet	tion Date:	10/22/2014
# Of Programs1:		1
Total Assessment Amoun	nt:	0.00
Initial Assessed Amount:		0.00
Liability \$ Amount:		0.00
Project \$ Amount:		0.00
Liability \$ Paid:		0.00
Project \$ Completed:		0.00
Total \$ Paid/Completed A	mount:	0.00
WMUDS/SWAT:		
Edit Date:	Not reported	4
Complexity:		- Any facility having a physical, chemical, or biological
comprexity.		nent system (except for septic systems with subsurface
		r any Class II or III disposal site, or facilities without
		stems that are complex, such as marinas with petroleum
		blid wastes, and sewage pump out facilities.
Primany Waster		niu wastes, and sewaye pump out lacilities.
Primary Waste: Primary Waste Type:	NONCON Designated/	Influent or Solid Wastes that pose a significant threat to
i fillialy waste Type.		
		y because of their high concentrations (E.G., BOD,
		RF, Chloride). 'Manageable' hazardous wastes (E.G.,
	-	Its and heavy metals) are included in this category.
O a ser dama Milaria	Not reported	
Secondary Waste:	Not reported	
Secondary Waste Type:	Not reported	
Secondary Waste Type: Base Meridian:	Not reported Not reported	t
Secondary Waste Type: Base Meridian: NPID:	Not reported	t
Secondary Waste Type: Base Meridian: NPID: Tonnage:	Not reported Not reported Not reported 0	3
Secondary Waste Type: Base Meridian: NPID: Tonnage: Regional Board ID:	Not reported Not reported Not reported 0 Not reported	3
Secondary Waste Type: Base Meridian: NPID: Tonnage: Regional Board ID: Municipal Solid Waste:	Not reported Not reported Not reported 0	3
Secondary Waste Type: Base Meridian: NPID: Tonnage: Regional Board ID: Municipal Solid Waste: Superorder:	Not reported Not reported Not reported 0 Not reported	3
Secondary Waste Type: Base Meridian: NPID: Tonnage: Regional Board ID: Municipal Solid Waste:	Not reported Not reported Not reported 0 Not reported False	3

# SEGS I & II - THREE SURFACE IMPOUNDMENTS & LAND TREATMENT UN (Continued)

S101612545

EDR ID Number Database(s) EPA ID Number

Agency Type:	Private	
Agency Name:	SUNRAY EN	ERGY INC
Agency Department:	Not reported	
Agency Address:	35100 SANT	A FE ST
Agency City,St,Zip:	DAGGETT	CA 92327
Agency Contact:	ERIC WILLS	
Agency Telephone:	7602543381	
Land Owner Name:	Not reported	
Land Owner Address:	Not reported	
Land Owner City,St,Zip:	Not reported	
Land Owner Contact:	Not reported	
Land Owner Phone:	Not reported	
Region:	6V .	
Facility Type:	Industrial - Fa	acility that treats and/or disposes of liquid or
		stes from any servicing, producing, manufacturing or
		peration of whatever nature, including mining, gravel
		thermal operations, air conditioning, ship building and
	0.0	production, storage and disposal operations, water
	pumping.	
Facility Description:	Not reported	
Facility Telephone:	Not reported	
SWAT Facility Name:	Not reported	
Primary SIC:	4961	
Secondary SIC:	Not reported	
Comments:	Not reported	
Last Facility Editors:	Not reported	
Waste Discharge System:	True	
Solid Waste Assessment T	est Program:	False
Toxic Pits Cleanup Act Pro	gram:	False
Resource Conservation Re	ecovery Act:	False
Department of Defence:	-	False
Solid Waste Assessment T	est Program:	Not reported
Threat to Water Quality:	-	Moderate Threat to Water Quality. A violation could have a major
-		adverse impact on receiving biota, can cause aesthetic impairment to
		significant human population, or render unusable a potential domestic
		or municipal water supply. Awsthetic impairment would include nuisan
		from a waste treatment facility.
Sub Chapter 15:		True
Regional Board Project Off	icer:	JJK
Number of WMUDS at Fac	ility:	1
Section Range:		Not reported
RCRA Facility:		No
Waste Discharge Requiren	nents:	A
Self-Monitoring Rept. Freq		Quarterly Submittal
Waste Discharge System I	D:	6B364550001
Solid Waste Information ID		Not reported

# A37

# Target DAGGETT LEASING 35100 SANTA FE Property DAGGETT, CA 92327

## Site 37 of 38 in cluster A

Actual: CHMIRS: 1945 ft. OES Incident Number: OES notification: OES Date: OES Time:

670 Not reported 4/8/1994 02:58:40 PM CA CHMIRS \$105636278 N/A Site

Database(s)

EDR ID Number EPA ID Number

#### S105636278

(Continued) Incident Date: Not reported Date Completed: Not reported Property Use: Not reported Not reported Agency Id Number: Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: YES Waterway: Not reported Spill Site: Not reported Cleanup By: private contractor and discharger Containment: Not reported What Happened: Not reported PETROLEUM Type: Measure: Not reported Not reported Other: Date/Time: Not reported 1994 Year: Agency: daggett leasing 040894 1234 Incident Date: Admin Agency: Not reported 80 gallons Amount: Contained: NO Site Type: IND PLT E Date: Not reported Substance: caloria heat transfer oil Unknown: Not reported Substance #2: Not reported Substance #3: Not reported Evacuations: NO Number of Injuries: NO Number of Fatalities: NO #1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported

Not reported Not reported

Not reported

Not reported

Structure fire

Database(s)

EDR ID Number EPA ID Number

## S105636278

Evacs: Injuries: Fatals: Comments: Description:

A3

#### Tar Pro

Report Date:

Waterway:

Spill Site:

Type:

Other:

Year:

Agency:

Measure:

Date/Time:

Incident Date:

Admin Agency: Amount:

Cleanup By:

Containment:

What Happened:

Facility Telephone:

Waterway Involved:

(Continued)

Ac1 194

38 arget roperty	35100 SANTA FE STREET DAGGETT, CA 92327		CA CHMIRS	S105639127 N/A
	Site 38 of 38 in cluster A			
	CHMIRS:			
ctual: 945 ft.	OES Incident Number:	10103		
945 11.	OES notification:	Not reported		
	OES Date:	9/19/1995		
	OES Time:	07:30:35 AM		
	Incident Date:	Not reported		
	Date Completed:	Not reported		
	Property Use:	Not reported		
	Agency Id Number:	Not reported		
	Agency Incident Number:	Not reported		
	Time Notified:	Not reported		
	Time Completed:	Not reported		
	Surrounding Area:	Not reported		
	Estimated Temperature:	Not reported		
	Property Management:	Not reported		
	More Than Two Substances Involved?:	Not reported		
	Resp Agncy Personel # Of Decontaminated:	Not reported		
	Responding Agency Personel # Of Injuries:	Not reported		
	Responding Agency Personel # Of Fatalities:	•		
	Others Number Of Decontaminated:	Not reported		
	Others Number Of Injuries:	Not reported		
	Others Number Of Fatalities:	Not reported		
	Vehicle Make/year:	Not reported		
	Vehicle License Number:	Not reported		
	Vehicle State:	Not reported		
	Vehicle Id Number:	Not reported		
	CA DOT PUC/ICC Number:	Not reported		
	Company Name:	Not reported		
	Reporting Officer Name/ID:	Not reported		
	Reporting Onicer Mane/10.	notreponeu		

Daggett Leasing Corp 9/19/95 1725 Not reported

Not reported

Not reported

Not reported

Not reported

Discharger

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

200 gallons

1995

YES

Database(s)

EDR ID Number EPA ID Number

#### (Continued)

Site

Contained: Site Type: E Date: Substance: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description: OES Incident Number: OES notification: OES Date: OES Time: Incident Date: Date Completed: Property Use: Agency Id Number: Agency Incident Number: Time Notified: Time Completed: Surrounding Area: Estimated Temperature: Property Management: More Than Two Substances Involved?: Resp Agncy Personel # Of Decontaminated: Responding Agency Personel # Of Injuries: Responding Agency Personel # Of Fatalities: Others Number Of Decontaminated: Others Number Of Injuries: Others Number Of Fatalities: Vehicle Make/year: Vehicle License Number: Vehicle State: Vehicle Id Number: CA DOT PUC/ICC Number: Company Name: Reporting Officer Name/ID: Report Date: Facility Telephone: Waterway Involved: Waterway: Spill Site: Cleanup Bv: Containment:

NO Not reported Not reported chevron transfer oil hp Not reported Not reported Not reported Not reported NO NO Not reported flange failure 2-1685 03/27/2002 Not reported No Not reported Not reported Reporting Party Not reported

#### S105639127

Database(s)

EDR ID Number EPA ID Number

#### S105639127

(Continued)

What Happened: Type: Measure: Other: Date/Time: Year: Agency: Incident Date: Admin Agency: Amount: Contained: Site Type: E Date: Substance: Gallons: Unknown: Substance #2: Substance #3: Evacuations: Number of Injuries: Number of Fatalities: #1 Pipeline: #2 Pipeline: #3 Pipeline: #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: #3 Vessel >= 300 Tons: Evacs: Injuries: Fatals: Comments: Description:

Not reported Not reported Not reported Not reported Not reported 2002 Sunray Energy 3/27/200212:00:00 AM San Bernardino County Health Department Not reported Yes Industrial Plant Not reported oil 100 0 Not reported Not reported 0 0 0 Not reported Equipment failure caused the spill.

#### NPL BARSTOW MARINE CORPS LOGISTICS BASE Region MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311

< 1/8 1 ft. NPL 1000389921 CERCLIS CA8170024261 CORRACTS RCRA-LQG US ENG CONTROLS US INST CONTROL ROD RAATS NY MANIFEST CA HAZNET CA EN VIROSTOR CA HWP

NPL: EPA ID: Cerclis ID: EPA Region: Federal: Final Date: Site Score:

CA8170024261 0902790 9 F 1989-11-21 00:00:00 37.93

Category Details: NPL Status: Cur Category Description: Dep

Currently on the Final NPL Depth To Aquifer-> 10 And <= 25 Feet

Database(s) EPA ID Nur

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued) Category Value: 18 NPL Status: Currently on the Final NPL Distance To Nearest Population -> 0 And <= 1/4 Mile Category Description: Category Value: 10 Site Details: Site Name: BARSTOW MARINE CORPS LOGISTICS BASE Site Status: Final Site Zip: 92311 Site City: BARSTOW Site State: CA Federal Site: Yes SAN BERNARDINO Site County: EPA Region: 09 Date Proposed: 07/14/89 Date Deleted: Not reported Date Finalized: 11/21/89 Substance Details: NPL Status: Currently on the Final NPL Not reported Substance ID: Substance: Not reported CAS #: Not reported Not reported Pathway: Scoring: Not reported NPL Status: Currently on the Final NPL U228 Substance ID: Substance: TRICHLOROETHYLENE (TCE) CAS #: 79-01-6 GROUND WATER PATHWAY Pathway: Scoring: 4 Summary Details: Conditions at proposal July 14, 1989): The Barstow Marine Corps Logistics

Base is in San Bernardino County, California. It is in the Mojave Desert and adjacent to the Mojave River. A portion of the base, the 1,568-acre Nebo Area, is approximately 1 mile east of the City of Barstow. It has been used for maintenance, repair, and rebuilding of supplies and equipment for the Marine Corps since 1942. Solvent wastes, including trichloroethylene TCE), were apparently generated in substantial quantities in the Nebo Area facility. Due to the lack of records, the quantities of solvents used, stored, and discharged on-site are unknown. The same activities were conducted at the 1,681-acre Yermo Area, 6 miles east of Nebo.Barstow Marine Corps Logistics Base is participating in the Installation Restoration Program IRP), established in 1978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from ha ardous materials. Monitoring wells at both Nebo and Yermo are contaminated with TCE. according to tests conducted in 1984-85 as part of IRP studies and by the U.S. Geological Survey. Public wells within 3 miles of ha ardous substances at the base supply drinking water to an estimated 28,700 residents of the city of Barstow and outlying areas. The Marine Corps has completed an initial assessment/site inspection and is planning a remedial investigation/feasibility study to determine the type and extent of contamination and identify alternatives for remedial action at both the Nebo

EDR ID Number Database(s) EPA ID Number

drin	Yermo areas. An activated carbon system for treating contaminated king water wells at Yermo is scheduled to be installed in July 1989.Status ember 21, 1989): The activated carbon system is now operating.	
Site Status Details:		
NPL Status:	Final	
Proposed Date:	07/14/1989	
Final Date:	11/21/1989	
Deleted Date:	Not reported	
Narratives Details:		
NPL Name:	BARSTOW MARINE CORPS LOGISTICS BASE	
City:	BARSTOW	
State:	CA	
CERCLIS:		
Site ID:	0902790	
EPA ID:	CA8170024261	
Facility County:	SAN BERNARDINO	
Short Name:	BARSTOW MARINE CORPS LOGI	
Congressional District	8	
IFMS ID:	09Q4	
SMSA Number:	6780	
USGC Hydro Unit:	18090208	
Federal Facility:	Federal Facility	
DMNSN Number:	5687.00000	
Site Orphan Flag:	Ν	
RCRA ID:	Not reported	
USGS Quadrangle:	Not reported	
Site Init By Prog:	Not reported	
NFRAP Flag:	Not reported	
Parent ID:	Not reported	
RST Code:	Not reported	
EPA Region:	09	
Classification:	Not reported	
Site Settings Code:	SU	
NPL Status:	Currently on the Final NPL	
DMNSN Unit Code:	ACRE	
RBRAC Code:	Not reported	
RResp Fed Agency Co	ode: USNV	
Non NPL Status:	Not reported	
Non NPL Status Date:		
Site Fips Code:	06071	
CC Concurrence Date	: //	
CC Concurrence FY:	Not reported	
Alias EPA ID:	Not reported	
Site FUDS Flag:	Not reported	
CERCLIS Site Contact N	ame(s):	
Contact ID:	9270408.00000	
Contact Name:	Phillip Ramsey	
Contact Tel:	(415) 972-3006	
Contact Title:	Remedial Project Manager (RPM)	
Contact Email:	Not reported	

Database(s)

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

ARSTOW MARINE CORPS LO	ARSTOW MARINE CORPS LOGISTICS BASE (Continued)			
Contact ID:	13003854.00000			
Contact Name:	Leslie Ramirez			
Contact Tel:	(415) 972-3978			
Contact Title:	Site Assessment Manager (SAM)			
Contact Email:	Not reported			
Contact Ennan:	Not reported			
Contact ID:	13003858.00000			
Contact Name:	Sharon Murray			
Contact Tel:	(415) 972-4250			
Contact Title:	Site Assessment Manager (SAM)			
Contact Email:	Not reported			
Contact ID:	13004003.00000			
Contact Name:	Carl Brickner			
Contact Tel:	Not reported			
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	Site Assessment Manager (SAM)			
Contact Email:	Not reported			
Contact ID:	9270865.00000			
Contact Name:	Mary Aycock			
Contact Tel:	(415) 972-3289			
Contact Title:	Remedial Project Manager (RPM)			
Contact Email:	Not reported			
CERCLIS Site Alias Name(s):	101			
Alias ID:				
Alias Name:	MARINE CORPS LOGISTICS BASE- NEBO			
Alias Address:	PUBLIC WORKS CTR BLDG 198			
	BARSTOW, CA 92311			
Alias ID:				
Alias Name:	BARSTOW USMC LOGISTICS BASE-NEBO			
Alias Address:	Not reported CA			
Alias ID:	301			
Alias Name:	MARINE CORPS LOGISTICS BASE BARSTOW			
Alias Address:	Not reported			
	CA			
Alias ID:	401			
Alias Name:	MARINE CORPS LOGISTICS BASE BARSTOW			
Alias Address:	Not reported CA			
Alias ID:	402			
Alias Name:	BARSTOW MARINE CORPS LOGISTICS BASE			
Alias Address:	MARINE CORPS LOGIS BASE- NEBO			
	BARSTOW, CA 92311			
Alias ID:	9270176			
Alias Name:	BARSTOW NATIONAL TRAINING CENTER			
Alias Address:	T9N R1E S16 SW1/4			
	BARSTOW DAGGET AIRPORT, CA 85350			
Alias ID:	9270177			
Alias Name:	MCLB BARSTOW			
Alias Address:	3 MILES EAST OF BARSTOW ON I40 BARSTOW, CA 96058			
Alias ID:	201			
Alias ID:	301			
Alias ID:	401			
Alias ID:	9270177			

EDR ID Number Database(s) EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

1000389921

Alias Comments: PREVIOUS EPA ID# AZD 981 416 977PREVIOUS EPA ID# AZD 981 416 977PRE VIOUS EPA ID# AZD 981 416 977THIS IS A DUPLICATE FF DOCKET LISTING Site Description: The Marine Corps Logistics Base (MCLB) Barstow is in San Bernardino County, California, in the central Mojave Desert approximately 135 miles northeast of Los Angeles. The Base consists of two areas: Nebo Main Base, which includes the Rifle Range, and the Yermo Annex. The Nebo Main Base (1,569 acres) is 3 1/2 miles east of Barstow and is intersected by Interstate 40. The Rifle Range (2,338 acres) is south and adjacent to the Nebo Main Base. The Yermo Annex (1,680 acres) is 7 miles east of Barstow and adjacent to Interstate 15. Other surrounding communities include Yermo to the northeast and Daggett to the east. The Mojave River transects the Base in an east-west direction. MCLB Barstow was established in 1942 at Nebo Main Base as a Marine Corps Depot of Supplies, which is a staging area for supplies and equipment for Marine Corps forces deployed in the Pacific during World War II. By 1943, the Marine Corps Depot of Supplies began providing logistical support to Marine Corps commands throughout the western United States and the Pacific. Yermo Annex was acquired in 1946 because Nebo Main Base operations outgrew escalating mission requirements. In 1961, a 10-acre central repair shop was built to provide additional vehicle repair and rebuilding capabilities. The Rifle Range was acquired in the mid-1950s for shooting practice and continues to serve the same function today with minimal changes. Until the early 1960s, MCLB Barstow's major industrial operations were conducted at Nebo Main Base: in the early 1960s, the major industrial operations were relocated to Yermo Annex. The hazardous waste generation and disposal operations associated with these industrial activities began at Yermo at this same time. Operations at MCLB Barstow have included maintaining, issuing, and shipping materials held in the Marine Corps Store Distribution System. During its 50-year period of operation, MCLB has generated industrial waste such as waste oil, fuel, solvent, paint residue, grease, hydraulic fluid, battery acid, various gases, and other components, including some that are sources of low-level radiation. Additional waste generated included pesticides, herbicides, polychlorinated biphenyls (PCBs), calcium hypochlorite, and sodium hypochlorite. In the early years, some of these wastes were disposed of in landfills, burn trenches, and other areas located throughout the Nebo Main Base, Yermo Annex, and the Rifle Range. The Navy conducted a series of studies to determine the presence of contamination in soil and groundwater at the Base. An initial assessment study (IAS) was conducted at MCLB Barstow in 1983 to evaluate past practices of hazardous waste handling, storage, and disposal, and to identify areas representing a potential threat to environment or human health; the IAS identified 33 potentially contaminated sites. Confirmation studies were conducted between 1984 and 1986 at 11 of the sites considered to pose potential threat to the environment. In November 1989, MCLB Barstow was added to the National Priorities List (NPL). Operable Unit 1 (OU1): OU1 includes groundwater and vadose zone contamination zone contamination underlying the Yermo Annex. The Remedial Investigation (RI) identified one large volatile organic compound (VOC) plume emanating from several sources including Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Areas of Concern (CAOCs) 16, 15/17, 23, 26, and 35. A Record of Decision (ROD) was issued in April 1998 that addressed both OU1 and OU2. OU2: OU2 includes groundwater and vadose zone contamination underlying the Nebo Main Base. The RI identified two discrete plumes: the Nebo north plume, believed to have originated from Warehouse 2; and the Nebo South plume, which originated from CAOC 6. A ROD was issued in April 1998 that addressed both OU1 and OU2. In 1992, trichloroethene (TCE) concentrations above drinking water standards were detected in groundwater samples from an off-base private residence well within the 1996 off-base plume boundary. A CERCLA emergency removal action was

conducted to remove the well from service and connect the residence to MCLB water supply system as stated in the OUs 1 and 2 ROD and the Action

Memorandum. The Lower Mojave hydrologic sub-unit, which includes the Barstow sub-basin, is classified as a source of drinking water (i.e., Class I Aquifer) in the Water Quality Control Plan for the Lahontan Region (Basin Plan).

EDR ID Number Database(s) EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Groundwater is the sole source of drinking water in this area and its quality may have been impacted since at least 1952. Both the Yermo Annex and Nebo Main Base have evidence of solvent-contaminated groundwater. The Nebo Main Base currently receives its drinking water through a pipeline from the City of Barstow, which obtains water from groundwater wells in the Mojave River Drainage Basin, upgradient from MCLB. Currently, the Nebo South groundwater plume area is vacant with exception of a small covered area used to house the Air Sparging/Soil Vapor Extraction (AS/SVE) system-related components. The areas immediately surrounding MCLB are basically undeveloped except for some small-scale, older commercial developments along Highway 66 west of the main entrance to the Nebo Main Base. Future plans in the immediate vicinity indicate five main land uses: - Rural-urban (low-density residential); - Open space/recreation; - Agricultural; - Industrial; - Commercial. The area west of the main entrance to the Nebo Main Base where Interstate 40, Route 66, and the Burlington Northern Santa Fe (BNSF) railroad lines converge is slated

areas immediately surrounding MCLB are basically undeveloped except for some small-scale, older commercial developments along Highway 66 west of the main entrance to the Nebo Main Base. Future plans in the immediate vicinity indicate five main land uses: - Rural-urban (low-density residential); - Open space/recreation; - Agricultural; - Industrial; - Commercial. The area west of the main entrance to the Nebo Main Base where Interstate 40, Route 66, and the Burlington Northern Santa Fe (BNSF) railroad lines converge is slated for industrial development per the City of Barstow and San Bernardino County. Other than this, MCLB has no plans in the near future for any development other than to further Marine Corps mission. A Final Record of Decision (ROD) addressing OU 2 was completed in September of 2006. OU3: The four CAOCs included in OU3 are: CAOC 18 - Sludge Disposal Area; CAOC 20 - Second Hazardous and Low-Level Radiological Area; CAOC 23 - Landfill Area; and CAOC 34 - PCB Storage Area. The OU3 CAOCs are within the Yermo Annex. CAOC 18 is north of 12th Street and east of Building 573, on the eastern side of the Yermo Annex. From 1961 to the late 1970s miscellaneous industrial wastes from the Central Repair Division were reportedly discharged directly to the ground of an unlined channel that runs through the middle of CAOC 18. Sludge from the clean, paint, and lubrication shops were reportedly disposed of on the ground just east of the current radar test area. CAOC 20 is on the eastern side of the Yermo Annex. It includes a low-level radiological waste disposal well capped by a concrete pad and surrounded by a chain-link fence, and 31 uncapped nonradioactive waste disposal wells. The wells are approximately 30 feet deep and 4 feet in diameter. CAOC 23 is an irregular L-shaped area located at the south to southeast corner of the Yermo Annex and comprises an area of approximately 60 acres. Historical records for CAOC 23 indicate that between 1946 and 1980 it was operated as a storage area for waste and rollback equipment (equipment and materials returned from World War II and the Korean and Vietnam conflicts) and for disposal of solid waste and some hazardous liquid waste. CAOC 34 is located on the eastern side of the Yermo Annex adjacent to the western side of the MCLB Effluent Disposal Pond. The basins at the former PCB Storage Area were originally used to receive and store domestic sludge from the former MCLB Domestic Wastewater Treatment Facility (DWTF). However, the basins were drained in 1978 and subsequently used as temporary staging area for inactive electrical transformers, drums of oil contaminated with PCB compounds, and PCB-contaminated sludge. In 1994, the basins were excavated and demolished in a removal action at the site. A new MCLB industrial wastewater treatment and recycling facility (IWTRF) was constructed in 1995 at the former basin locations. During the IWTRF construction, a concrete pad was poured directly over the filled basin excavations. A ROD was completed in June 1997 addressing both OU3 and OU4. OU4: The four CAOCs included in OU4 are: CAOC 2 - Pesticide Storage and Washout Area; CAOC 5 - Chemical Storage Area: CAOC 9 - Fuel Disposal Area: and CAOC 11 - Fuel Burn Area. The OU4 CAOCs are within the Nebo Main Base. CAOC 2 is located on the north side of the

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#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Nebo Main Base. It covers about 1.8 acres of relatively flat terrain within the 100-year floodplain boundary of the Mojave River. The facility has been used as an herbicide and pesticide container storage and rinsing area since the early 1950s. Until about 1970, the rinsing operations were conducted at the northern and southern concrete wash pads. In the 1970s, use of the northern wash pad was discontinued and an underground storage tank (UST) was installed to collect rinse water. The tank was abandoned in 1984 and removed in 1992. The Pesticide Storage and Washout Area is currently an active MCLB facility used for equipment storage and repair and other operations associated with MCLB yard maintenance. CAOC 5 is located in the southeastern portion of the Nebo Main Base. The CAOC includes three lots, Lot 351, 352, and 357, which encompass a total area of about 50 acres. The Nebo Main Base was selected as the west coast collection point for the decommissioning of DDT at military facilities throughout the west. From 1967 to 1976, DDT received from these facilities was stored with rollback equipment and hazardous chemicals in the Lot 351. In fiscal year 1975/1976, the Navy arranged for the disposal of approximately 300 tons of the accumulated material. During the process of removal, an estimated one ton of material was spilled onto the ground at Lot 351. In 1978, an effort was made to clean up the contaminated areas by removing the top six inches of soil and replacing it with clean fill. The actual extent of the remediated area(s) is unknown. CAOC 9 encompasses a small, unpaved area (approximately 150 by 250 feet) in the southwest corner of Nebo Main Base. The CAOC is bisected by part of an unlined drainage channel. Channel F. which is not considered part of the Fuel Disposal Area. In the 1950s, waste fuel and oil generated by vehicle maintenance operations were reportedly discharged into the segment of Channel F. Migration of the waste from that point was influenced by the slope of existing drainage and surface-water runoff from the wash to the south. Eventually, the wastes ended up in the area now designated as the Fuel Disposal Area. CAOC 11 is in the southwest corner of the Nebo Main Base. The area investigated measures approximately 240 by 680 feet. The Fuel Burn Area was used from the early 1940s to the 1960s for the burning of waste fuels and oils generated in the Repair Division shops. Waste diesel, gasoline, and oil were collected in common tanks that were hauled to the Fuel Burn Area for combustion. Waste oils were primarily recycled after the 1960s. A ROD was completed in June 1997 that addressed both OU3 and OU4. OU5: OU5 is comprised of the soil contamination at sixteen sites (CAOCs 15/17, 19, 21, 22, 24, 26, 27, 28, 29, 30, 31, 32, 35, and 36) at the Yermo Annex for which no pre-RI analytical data were available. CAOC 15, the Oil Storage/Spillage and Industrial Wastewater Treatment Plant (IWTP) Areas is in the northern part of the Yermo Annex. Defueling operations took place in this area, where an estimated 4,000 drums of waste oil from decommissioned vehicles and new lubricating oil were stored. CAOC 17 includes the Industrial Wastewater Overflow area and all surface impoundments of the Yermo IWTP. CAOCs 15 and 17 were investigated as one site because they are adjacent to each other and represent common source release mechanisms. The combined size of CAOCs 15 and 17 is 13 acres. CAOC 19, the First Hazardous and Low-Level Radiological Area, is located near the center of the Yermo Annex. The CAOC consists of approximately 10,000 square feet on which low-level radiation equipment and hazardous materials were stored from the early 1950s to the 1960s. CAOC 21, the Industrial Waste Disposal Area, is located on a flat, open unpaved area at the eastern perimeter of the Yermo Annex. The CAOC was reportedly used for a variety of waste operations between 1946 and 1980. A UST in the western portion of CAOC 21 was removed in June 1992. CAOC 22, the Domestic Wastewater Disposal Area, is in the southeastern portion of the Yermo Annex. The site consists of three unlined percolation ponds that were used for disposal of treated wastewater (both domestic and industrial wastes) at the Yermo Annex between 1952 and 1958 and treated domestic wastewater thereafter. CAOC 24,

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BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

the Tracked Vehicle Test Area, is located in the southwestern portion of the Yermo Annex. The traced vehicle test area was used to test drive various types of tracked vehicles. Waste oils and industrial wastewaters were sprayed onto the surface of the track area to control the wind erosion of the sandy subgrade, to suppress dust, and to help form the vehicle test track. CAOC 26, the Building 533 Waste Disposal Area, is in the west-central portion of Yermo Annex. From the late 1950s to the late 1970s, industrial waste generated from the preservation and packaging operations was discharged to the ground west of Building 533. UST T-533 (the French Drain) was removed in 1992. The excavated soils were later taken off-site for disposal. CAOC 27, the Building 436 Fuel Storage Area, encompasses approximately 1.5 acres in the north-central portion of the Yermo Annex. Four USTs were located in this CAOC; three of these UST have been removed. CAOC 28, the West Lot, Dust Control Area, is in the northwestern quadrant of the Yermo Annex. Various storage activities took place at CAOC 28 between 1965 and 1978. The site was used for storage, maintenance-related activities, and railroad-related activities. In addition, wastewater and waste oil were applied at this CAOC to suppress dust. CAOC 30, the Locomotive Repair Shop Disposal Area, encompasses approximately 1 acre in the northwest portion of Yermo Annex. The site contains the present location of the Locomotive Repair Shop (Building 628) and also contained the former Repair Shop (now defunct Building 479). CAOC 31 is the North Vehicle Test Track Road, located in the north-central portion of Yermo Annex, CAOC 31 consists of approximately 6.500 linear feet of unpaved test track to which waste oil and industrial wastewater effluent were applied to alleviate the dust problem associated with this site. CAOC 32, the Preservation and Packaging Storage Area, is in the north-central portion of the Yermo Annex, and comprises approximately 1.5 acres. The CAOC encompasses Building 203 (the Preservation Shop) and the perimeter, a drum storage area, an operating steam wash rack, a sump and associated piping, and the former location of an excavated UST. The area west of Building 203 was reportedly used to store drums containing hazardous materials. CAOC 36, the Proposed Paint Combat Vehicle Maintenance Shop, is in the eastern portion of the Yermo Annex. Reportedly, heavy equipment and/or drums have been stored at the site from the mid-1960s to 1991. A ROD was completed in January 1998 that addressed both OU5 and OU6. OU6: OU6 is comprised of the soil contamination at eleven sites (CAOCs 1, 3, 4, 6, 7, 8, 12, 13, 14, and the Riparian Fringe Habitat) at the Nebo Main Annex for which no pre-RI analytical data were available. CAOC 1, the Landfill North of the Golf Course, is in the northern portion of the Nebo Main Base. Most of the site is within the 100-year floodplain of the Mojave River. The site encompasses approximately 18 acres including a reported sludge disposal area. From the late 1940s to the mid-1970s the site was used as a landfill for disposal of road construction debris, concrete, asphalt, and other materials to prevent CAOC 3, the Wastewater Disposal Area, is in the northern portion of the Nebo Main Base. The site was constructed in 1942 and treated both industrial and domestic wastes until 1974. When industrial wastewater treatment facilities were constructed in 1974, industrial waste discharges to the Nebo Main Base sanitary facilities were phased out. CAOC 4, the Old Trap and Skeet Range Areas, is in the northeastern quadrant of the Nebo Main Base. The site was used to store wooden containers of calcium hypochlorite. In 1950, the calcium hypochlorite was in the process of being disposed of in the gully when a violent chemical reaction occurred and produced a large cloud of chlorine gas. This incident forced the evacuation of MCLB Barstow and the city of Daggett. Some of the calcium hypochlorite that would have remained in trace quantities would have decomposed due to the period dousing of the area with water. CAOC 6, the original Trash Landfill, is located in the eastern portion of the Nebo Main Base. The site reportedly was used between 1946 and 1952 for disposing of approximately 20,000 cubic yards of

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#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

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lumber, building materials, empty paint cans, and other general trash. In addition, CAOC 6 was used for storing approximately 80 tons of various formulations of DDT and other unknown materials. CAOC 8 is the Building 197 Wastewater Disposal Area. Activities inside this machine shop building included plumbing, machining, and machine cleaning operations. Cleaning operations in Building 197 reportedly generated industrial wastes consisting of acid solutions, solvents, alkaline cleaners, and detergents. An estimated 2,000 gallons of hazardous waste were reportedly discharged to the ground at CAOC 8 between 1959 and 1975. CAOC 12, the Radiator Cleaning Chemical Disposal Area, is in the southern portion of the Nebo Main Base. The site was reportedly used for disposing radiator cleaning materials between 1943 and 1947. A UST used for storing waste fuel and oil was removed in 1992. CAOC 13, the Preservation and Packaging Storage Area, is in the southern portion of the Nebo Main Base. The area maintained a storage building for paints, thinners, and other solvents at CAOC 13 prior to its destruction in a fire in 1957. The only remains of the former storage building are an 800-square-foot slab of concrete and perimeter foundation. The CAOC includes the former building area and approximately 400 square feet of surrounding soil. CAOC 14 consists of three main stormwater drainage channels that constitute the Nebo Main Base surface drainage system and four outfalls that discharge into the Mojave River. Between the mid-1940s and 1974, industrial wastes from cleaning and plating operations in Buildings 2, 27, 50, and 53 were discharged through area drains, culverts, and ditches to the banks of the Mojave River. The Riparian Fringe Habitat is located on the Nebo Main Base. It is a long, narrow, roughly L-shaped corridor approximately 5,000 by 250 feet. This is a heterogeneous habitat with a high diversity of plant and animal life compared to other areas of MCLB Barstow. The habitat has been significantly disturbed by flood control practices, frequent grading activities associated with various nearby industrial operations, and the artificial storm water drainage channels from the Nebo Main Base and Golf Course. A ROD was completed in January 1998 that addressed both OU5 and OU6.

**CERCLIS** Assessment History:

001
DISCOVERY
11
11/01/80
Not reported
SITEWIDE
Federal Facilities
Not reported
Not reported
Not reported

For detailed financial records, contact EDR for a Site Report .:

001
PRELIMINARY ASSESSMENT
01/01/86
05/01/86
Higher priority for further assessment
SITEWIDE
Federal Facilities
Not reported
Not reported
Not reported

Database(s) EPA

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

1000389921

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	SITE INSPECTION
Date Started:	//
Date Completed:	06/01/86
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	HAZARD RANKING SYSTEM PACKAGE
Date Started:	/ /
Date Completed:	07/14/89
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Finan ced
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: Action:	001 PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started:	//
Date Completed:	07/14/89
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started:	//
Date Completed:	11/21/89
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action:

## MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Action Code: 001 INTERAGENCY AGREEMENT NEGOTIATIONS Date Started: 04/01/90 Date Completed: 09/28/90 Priority Level: Not reported Operable Unit: SITEWIDE Federal Enforcement Primary Responsibility: Planning Status: Primary Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

001
FEDERAL INTERAGENCY AGREEMENT
09/28/90
09/28/90
Not reported
SITEWIDE
Federal Enforcement
Primary
Not reported
Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	FEDERAL FACILITY REMOVAL
Date Started:	11/24/92
Date Completed:	06/14/93
Priority Level:	Stabilized
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: Action: Date Started: Date Completed: Priority Level: Operable Unit:	002 FEDERAL FACILITY REMOVAL 07/19/93 08/18/93 Cleaned up SITEWIDE
•	08/18/93
Priority Level:	Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Time Critical
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: Action:	003 FEDERAL FACILITY REMOVAL
Date Started:	07/18/94
Date Completed:	08/23/94

Database(s)

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Priority Level:	Partially Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	004
Action:	FEDERAL FACILITY REMOVAL
Date Started:	08/22/94
Date Completed:	08/26/94
Priority Level:	Partially Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	005
Action:	FEDERAL FACILITY REMOVAL
Date Started:	07/21/95
Date Completed:	08/04/95
Priority Level:	Stabilized
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Primary Responsibility:	
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	007
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	09/28/90
Date Completed:	06/03/97
Priority Level:	Not reported
Operable Unit:	LANDFILL OU 4 (TRACKED AT OU3)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	09/28/90
Date Completed:	06/03/97
Priority Level:	Not reported
Operable Unit:	LANDFILL OU 3
Primary Responsibility:	Federal Facilities

Database(s)

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	007
Action:	RECORD OF DECISION
Date Started:	//
Date Completed:	06/03/97
Priority Level:	Not reported
Operable Unit:	LANDFILL OU 4 (TRACKED AT OU3)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code: Action: Date Started:	002 RECORD OF DECISION
Date Completed:	06/03/97
Priority Level:	Not reported
Operable Unit:	LANDFILL OU 3
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	007
Action:	FEDERAL FACILITY REMOVAL
Date Started:	07/22/97
Date Completed:	08/21/97
Priority Level:	Cleaned up
Operable Unit:	SOIL OU 5
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Time Critical
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	009
Action:	FEDERAL FACILITY REMOVAL
Date Started:	07/22/97
Date Completed:	08/21/97
Priority Level:	Not reported
Operable Unit:	SOIL OU 6 (TRACKED AT OU5)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

EDR ID Number Database(s) EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

1000389921

For detailed financial records, contact EDR for a Site Report.:

Action Code:	003
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	09/28/90
Date Completed:	01/23/98
Priority Level:	Not reported
Operable Unit:	SOIL OU 5
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	008
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	09/28/90
Date Completed:	01/23/98
Priority Level:	Not reported
Operable Unit:	SOIL OU 6 (TRACKED AT OU5)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code:	008
Action:	RECORD OF DECISION
Date Started:	11
Date Completed:	01/23/98
Priority Level:	Not reported
Operable Unit:	SOIL OU 6 (TRACKED AT OU5)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code:	003
Action:	RECORD OF DECISION
Date Started:	//
Date Completed:	01/23/98
Priority Level:	Not reported
Operable Unit:	SOIL OU 5
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Database(s)

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Action Code: 002 FEDERAL FACILITY REMEDIAL DESIGN Action: Date Started: 09/03/97 Date Completed: 04/07/98 Priority Level: Not reported Operable Unit: LANDFILL OU 3 Primary Responsibility: Federal Facilities Planning Status: Primary Urgency Indicator: Not reported Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	007
Action:	FEDERAL FACILITY REMEDIAL DESIGN
Date Started:	09/30/97
Date Completed:	04/07/98
Priority Level:	Not reported
Operable Unit:	LANDFILL OU 4 (TRACKED AT OU3)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code:	006
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	09/28/90
Date Completed:	04/22/98
Priority Level:	Not reported
Operable Unit:	GW OU 2 (TRACKED AT OU1)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code:
Action:
Date Started:
Date Completed:
Priority Level:
Operable Unit:
Primary Responsibility:
Planning Status:
Urgency Indicator:
Action Anomaly:

001 FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY 09/28/90 04/22/98 Not reported GROUNDWATER OU 1 Federal Facilities Primary Not reported Not reported Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	006
Action:	RECORD OF DECISION
Date Started:	/ /
Date Completed:	04/22/98

Database(s)

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Priority Level:	Not reported
Operable Unit:	GW OU 2 (TRACKED AT OU1)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	RECORD OF DECISION
Date Started:	//
Date Completed:	04/22/98
Priority Level:	Not reported
Operable Unit:	GROUNDWATER OU 1
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	008
Action:	FEDERAL FACILITY REMOVAL
Date Started:	10/27/95
Date Completed:	04/23/98
Priority Level:	Partially Cleaned up
Operable Unit:	GW OU 2 (TRACKED AT OU1)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code:	006
Action:	FEDERAL FACILITY REMOVAL
Date Started:	10/27/95
Date Completed:	04/23/98
Priority Level:	Partially Cleaned up
Operable Unit:	GROUNDWATER OU 1
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	006
Action:	FEDERAL FACILITY REMEDIAL DESIGN
Date Started:	04/23/98
Date Completed:	04/23/98
Priority Level:	Not reported
Operable Unit:	GW OU 2 (TRACKED AT OU1)
Primary Responsibility:	Federal Facilities

Database(s)

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code:	008
Action:	FEDERAL FACILITY REMEDIAL DESIGN
Date Started:	09/18/98
Date Completed:	01/18/99
Priority Level:	Not reported
Operable Unit:	SOIL OU 6 (TRACKED AT OU5)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code: Action: Date Started: Date Completed: Priority Level: Operable Unit: Primary Responsibility: Planning Status: Urgency Indicator:	003 FEDERAL FACILITY REMEDIAL DESIGN 09/18/98 01/18/99 Not reported SOIL OU 5 Federal Facilities Primary Not reported
Action Anomaly:	Not reported
,	•

For detailed financial records, contact EDR for a Site Report.:

ION

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	FEDERAL FACILITY REMEDIAL ACTION
Date Started:	09/27/98
Date Completed:	08/28/00
Priority Level:	Not reported
Operable Unit:	LANDFILL OU 3
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Long Term Action
Action Anomaly:	Not reported

Database(s)

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

For detailed financial records, contact EDR for a Site Report.:

Action Code:	008
Action:	FEDERAL FACILITY REMEDIAL ACTION
Date Started:	05/21/99
Date Completed:	06/10/02
Priority Level:	Not reported
Operable Unit:	SOIL OU 6 (TRACKED AT OU5)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Long Term Action
Action Anomaly:	Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

	222
Action Code:	003
Action:	FEDERAL FACILITY REMEDIAL ACTION
Date Started:	05/21/99
Date Completed:	06/10/02
Priority Level:	Not reported
Operable Unit:	SOIL OU 5
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Long Term Action
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	FEDERAL FACILITY REMEDIAL DESIGN
Date Started:	11/25/98
Date Completed:	07/29/02
Priority Level:	Not reported
Operable Unit:	GROUNDWATER OU 1
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	FEDERAL FACILITY FIVE YEAR REVIEW
Date Started:	02/01/03
Date Completed:	04/09/03
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:

Database(s)

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

FEDERAL FACILITY REMEDIAL ACTION Action: Date Started: 04/23/98 Date Completed: 09/28/06 Priority Level: Not reported Operable Unit: GW OU 2 (TRACKED AT OU1) Primary Responsibility: Federal Facilities Planning Status: Not reported Urgency Indicator: Long Term Action Action Anomaly: Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	FEDERAL FACILITY REMEDIAL ACTION
Date Started:	04/23/98
Date Completed:	09/28/06
Priority Level:	Not reported
Operable Unit:	GROUNDWATER OU 1
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Long Term Action
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report .:

Action Code:	009
Action:	RECORD OF DECISION
Date Started:	//
Date Completed:	09/28/06
Priority Level:	Not reported
Operable Unit:	GW OU 2 (TRACKED AT OU1)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

002
FEDERAL FACILITY FIVE YEAR REVIEW
//
05/27/08
Not reported
SITEWIDE
Federal Facilities
Not reported
Not reported
Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	003
Action:	FEDERAL FACILITY FIVE YEAR REVIEW
Date Started:	//
Date Completed:	02/20/13

Database(s) EPA ID Nu

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	005
Action:	FEDERAL FACILITY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	09/28/90
Date Completed:	11
Priority Level:	Not reported
Operable Unit:	BASEWIDE FINAL OU7
Primary Responsibility:	Federal Facilities
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	OPERATIONS AND MAINTENANCE
Date Started:	08/28/00
Date Completed:	//
Priority Level:	Not reported
Operable Unit:	LANDFILL OU 4 (TRACKED AT OU3)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	003
Action:	OPERATIONS AND MAINTENANCE
Date Started:	06/10/02
Date Completed:	/ /
Priority Level:	Not reported
Operable Unit:	SOIL OU 6 (TRACKED AT OU5)
Primary Responsibility:	Federal Facilities
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

001
OPERATIONS AND MAINTENANCE
09/28/06
//
Not reported
GROUNDWATER OU 1
Federal Facilities
Not reported

EDR ID Number

Database(s)

# EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Federal Register Details: Fed Register Date: Fed Register Volume: Page Number:	11/21/89 54 48184
Fed Register Date:	07/14/89
Fed Register Volume:	54
Page Numbe <i>r</i> :	29820

Click this hyperlink while viewing on your computer to access 95 additional US CERCLIS Financial: record(s) in the EDR Site Report.

## CORRACTS:

EPA ID:	CA8170024261
EPA Region:	09
Area Name:	ENTIRE FACILITY
Actual Date:	19941209
Action:	CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
NAICS Code(s):	92811
	National Security
Original schedule date:	Not reported
Schedule end date:	Not reported

#### RCRA-LQG:

Date form received by agend	vr 02/20/2000
Facility name:	MCLB, BARSTOW B170
Facility address:	BOX 110170, BLDG, 196
Tacility address.	BARSTOW, CA 92311
FPA ID:	CA8170024261
<b>_</b> ., <b>.</b> .	
Mailing address:	COMMANDING OFFICER (B570)
	MCLB BARSTOW, BOX 110170
	BARSTOW, CA 92311
Contact:	FREEZY R SMALLS
Contact address:	Not reported
	Not reported
Contact country:	US
Contact telephone:	(760) 559-7507
Contact email:	FREEZY.SMALLS@USMC.MIL
EPA Region:	09
Land type:	Federal
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any
·	calendar month; or generates more than 1 kg of acutely hazardous waste
	during any calendar month; or generates more than 100 kg of any
	residue or contaminated soil, waste or other debris resulting from the
	cleanup of a spill, into or on any land or water, of acutely hazardous
	waste during any calendar month; or generates 1 kg or less of acutely
	hazardous waste during any calendar month, and accumulates more than 1
	המבמוסטט שמאני טעווויץ מוזי טמיכווטמי וווטוונוו, מווע מכטוווטומנכא ווטוב נומו ד

EDR ID Number Database(s) EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

## 1000389921

kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary: Owner/operator name: Owner/operator address:	ENZOR, KENNETH, COL, USMC Not reported Not reported
Owner/operator country: Owner/operator telephone:	US Not reported
Legal status:	Federal
Owner/Operator Type:	Operator
Owner/Op start date: Owner/Op end date:	06/26/2006 Not reported
Owner/Op end date.	Not reported
Owner/operator name:	UNITED STATES MARINE CORPS
Owner/operator address:	BOX 110170
	BARSTOW, CA 92311
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Federal
Owner/Operator Type:	Owner
Owner/Op start date:	07/01/1942
Owner/Op end date:	Not reported
Handler Activities Summary: U.S. importer of hazardous wa Mixed waste (haz. and radioa Recycler of hazardous waste: Transporter of hazardous wass Treater, storer or disposer of H Underground injection activity On-site burner exemption: Fumace exemption: Used oil fuel burner: Used oil fuel burner: Used oil processor: User oil refiner: Used oil fuel marketer to burn Used oil fuel marketer to burn Used oil Specification marketer Used oil transfer facility: Used oil transporter:	ctive): No No ste: No HW: No : No No No No No No No No
Universal Waste Summary:	
Waste type:	Batteries
Accumulated waste on-site:	Yes
Generated waste on-site:	Not reported
Waste type:	Lamps
Accumulated waste on-site: Generated waste on-site:	Yes Not reported
Scheraled waste Un-sild.	Notropolica
Waste type:	Pesticides
Accumulated waste on-site:	Yes
Generated waste on-site:	Not reported

BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

EDR ID Number Database(s) EPA ID Number

Waste type: Accumulated waste on-site:	Thermostats Yes	
Generated waste on-site:	Not reported	
. Waste code: . Waste name:	D001 IGNITABLE WASTE	
. Waste code: . Waste name:	D002 CORROSIVE WASTE	
. Waste code: . Waste name:	D005 BARIUM	
. Waste code: . Waste name:	D006 CADMIUM	
. Waste code: . Waste name:	D007 CHROMIUM	
. Waste code: . Waste name:	D008 LEAD	
. Waste code: . Waste name:	D009 MERCURY	
. Waste code: . Waste name:	D011 SILVER	
. Waste code: . Waste name:	D035 METHYL ETHYL KETONE	
. Waste code: . Waste name:	F003 THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KE ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVE MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTU CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONH. SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUM MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F002 BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AN MIXTURES.	ETONE, N-BUTYL ENT E SPENT RES/BLENDS ALOGENATED IE) OF ONE OR 5; AND STILL
. Waste code: . Waste name:	F005 THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUEN KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OF LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE R THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	, T MIXTURES/BLENDS (BY VOLUME) OF R THOSE SOLVENTS
Historical Generators: Date form received by agenc Site name: Classification:	y: 01/25/2006 MARINE CORPS LOGISTICS BASE, BARSTOW Large Quantity Generator	

EDR ID Number Database(s) EPA ID Number

BARSTOW MARINE CORPS	S LOGISTICS BASE (Continued)	1000389921
. Waste code:	D001	
. Waste name:	IGNITABLE WASTE	
. Waste code:	D002	
. Waste name:	CORROSIVE WASTE	
. Waste code:	D003	
. Waste name:	REACTIVE WASTE	
. Waste code:	D004	
. Waste name:	ARSENIC	
. Waste code:	D005	
. Waste name:	BARIUM	
. Waste code:	D007	
. Waste name:	CHROMIUM	
. Waste code:	D008	
. Waste name:	LEAD	
. Waste code:	D011	
. Waste name:	SILVER	
. Waste code:	D035	
. Waste name:	METHYL ETHYL KETONE	
. Waste code:	F003	
. Waste name:	THE FOLLOWING SPENT NONHALOGENATED SO ACETATE, ETHYL BENZENE, ETHYL ETHER, METH ALCOHOL, CYCLOHEXANONE, AND METHANOL; A MIXTURES/BLENDS CONTAINING, BEFORE USE, O NONHALOGENATED SOLVENTS; AND ALL SPENT CONTAINING, BEFORE USE, ONE OR MORE OF TH SOLVENTS, AND A TOTAL OF TEN PERCENT OR M MORE OF THOSE SOLVENTS LISTED IN F001, F00 BOTTOMS FROM THE RECOVERY OF THESE SPE MIXTURES.	HYL ISOBUTYL KETONE, N-BUTYL ALL SPENT SOLVENT ONLY THE ABOVE SPENT SOLVENT MIXTURES/BLENDS HE ABOVE NONHALOGENATED MORE (BY VOLUME) OF ONE OR 02, F004, AND F005; AND STILL
Date form received by a	igency: 02/04/2004	
Site name:	MARINE CORPS LOGISTICS BASE, BARSTOW	
Classification:	Large Quantity Generator	
. Waste code:	D001	
. Waste name:	IGNITABLE WASTE	
. Waste code:	D002	
. Waste name:	CORROSIVE WASTE	
. Waste code:	D003	
. Waste name:	REACTIVE WASTE	
. Waste code:	D005	
. Waste name:	BARIUM	
. Waste code:	D006	
. Waste name:	CADMIUM	

Database(s)

EDR ID Number EPA ID Number

	DGISTICS BASE (Continued) 1000389921
. Waste code:	D008
. Waste name:	LEAD
. Waste code:	D009
. Waste name:	MERCURY
. Waste code:	D011
. Waste name:	SILVER
. Waste code:	D035
. Waste name:	METHYL ETHYL KETONE
	Daga
. Waste code:	
. Waste name:	TETRACHLOROETHYLENE
. Waste code:	F003
. Waste name:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, E
	ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUT
	ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT
	MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT
	NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS
	CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED
	SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE O MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL
	BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SO
	MIXTURES.
. Waste code:	F005
. Waste name:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL E
	KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/E
	CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME
	ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOL
	LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF
	THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Maste est	
. Waste code: . Waste name:	U165 NAPHTHALENE
. Waste code:	U188
. Waste name:	PHENOL
. Waste code:	U239
. Waste name:	BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)
	nov: 01/21/2002
Date form received by ager	,
Site name:	MARINE CORPS LOGISTICS BASE, BARSTOW
, 0	,
Site name:	MARINE CORPS LOGISTICS BASE, BARSTOW
Site name: Classification:	MARINE CORPS LOGISTICS BASE, BARSTOW Large Quantity Generator
Site name: Classification: . Waste code: . Waste name:	MARINE CORPS LOGISTICS BASE, BARSTOW Large Quantity Generator D001 IGNITABLE WASTE
Site name: Classification: . Waste code: . Waste name: . Waste code:	MARINE CORPS LOGISTICS BASE, BARSTOW Large Quantity Generator D001 IGNITABLE WASTE D002
Site name: Classification: . Waste code: . Waste name:	MARINE CORPS LOGISTICS BASE, BARSTOW Large Quantity Generator D001 IGNITABLE WASTE
Site name: Classification: . Waste code: . Waste name: . Waste code:	MARINE CORPS LOGISTICS BASE, BARSTOW Large Quantity Generator D001 IGNITABLE WASTE D002

. Waste name: CADMIUM

Database(s)

EDR ID Number EPA ID Number

BARSTO	OW MARINE CORPS LOGI	STICS BASE (Continued)	1000389921
. \	Waste code:	D007	
. \	Waste name:	CHROMIUM	
. \	Waste code:	D008	
. \	Waste name:	LEAD	
. \	Waste code:	D011	
. `	Waste name:	SILVER	
. \	Waste code:	D035	
. `	Waste name:	METHYL ETHYL KETONE	
. \	Waste code:	D039	
. `	Waste name:	TETRACHLOROETHYLENE	
. \	Waste code:	D040	
. '	Waste name:	TRICHLORETHYLENE	
. \	Waste code:	F001	
_ `	Waste name:	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGR TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHL 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORID FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE ( ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOS IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVER SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	ORIDE, NATED IN DEGREASING BY VOLUME) OF SE SOLVENTS LISTED
	Waste code: Waste name:	F003 THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KET ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVEN MIXTURE S/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE S NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTUR CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHA SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005 BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND MIXTURES.	ONE, N-BÜTYL NT SPENT ES/BLENDS LOGENATED E) OF ONE OR ; AND STILL
	Waste code: Waste name:	F005 THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE ( ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RE THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	MIXTURES/BLENDS BY VOLUME) OF THOSE SOLVENTS
	Waste code: Waste name:	U044 CHLOROFORM (OR) METHANE, TRICHLORO-	
	Waste code: Waste name:	U052 CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-	
	Waste code: Waste name:	U188 PHENOL	
•			

Site		Database(s)	EDR ID Number EPA ID Number
BARSTOW MARINE CORPS LOO			1000389921
	. ,		1000383921
. Waste code:			
. Waste name:	ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYL	ENE	
. Waste code:	U220		
. Waste name:	BENZENE, METHYL- (OR) TOLUENE		
Date form received by agence			
Site name: Classification:	MCLB, BARSTOW, NEBO		
Classification.	Large Quantity Generator		
Date form received by agence	:v: 04/15/1999		
Site name:	NEBO, MCLB, BARSTOW, CA		
Classification:	Large Quantity Generator		
	22/24/4222		
Date form received by agence			
Site name: Classification:	USMC BARSTOW LOGISTICS BASE NEBO Large Quantity Generator		
Classification.	Large Quantity Generator		
Date form received by agence	y: 03/28/1996		
Site name:	NEBO ANNEX, MCLB, BARSTOW, CA		
Classification:	Large Quantity Generator		
Date form received by agence Site name:	USMC MCLB BARSTOW NEBO ANNEX		
Classification:	Large Quantity Generator		
	Large Quantity Constator		
Date form received by agence			
Site name:	MARINE CORPS LOGISTICS BASE -		
Classification:	Large Quantity Generator		
Date form received by agence	w <sup>.</sup> 08/18/1980		
Site name:	USMC BARSTOW LOGISTICS BASE NEBO		
Classification:	Large Quantity Generator		
Corrective Action Summary:			
Event date:	05/01/1986		
Event:	CA029SF		
Event data:	05/01/1006		
Event date: Event:	05/01/1986 CA049PA		
Event.			
Event date:	06/01/1986		
Event:	CA049SI		
Event date:	12/09/1994	ativa	
Event:	CA Prioritization, Facility or area was assigned a high corre action priority.	Clive	
Epoility Hop Dopping A Notice -	f Violatiana;		
Facility Has Received Notices on Regulation violated:	F - 262.30-34.C		
Area of violation:	Generators - General		
Date violation determined:	12/03/1998		
Date achieved compliance:	02/27/1999		
Violation lead agency:	EPA		
Enforcement action:	WRITTEN INFORMAL		
Enforcement action date:	01/20/1999		

Database(s)

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	Not reported Not reported EPA Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	F - 262.30-34.C Generators - General 12/03/1998 02/27/1999 EPA Not reported 01/15/1999 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	F - 262.40-43.D Generators - General 12/02/1998 02/27/1999 EPA WRITTEN INFORMAL 01/20/1999 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	F - 262.40-43.D Generators - General 12/02/1998 02/27/1999 EPA Not reported 01/15/1999 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead a gency: Enforcement action: Enforcement action date: Enf. disposition status:	FR - 264.170-177.I TSD - General 01/27/1994 02/23/1994 State WRITTEN INFORMAL 01/27/1994 Not reported

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.170-177.I TSD - General 01/27/1994 02/23/1994 State INITIAL 3008(A) COMPLIANCE 01/27/1994 Not reported Not reported State 1600 1600
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	F - 262.40-43.D Generators - General 12/07/1992 12/13/1993 State WRITTEN INFORMAL 12/07/1992 Not reported Not reported State Not reported Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated:	F - 262.10-12.A
Area of violation:	Generators - General
Date violation determined:	12/07/1992
Date achieved compliance:	12/13/1993
Violation lead agency:	State
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	02/25/1993
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	2100
Final penalty amount:	2100
Paid penalty amount:	2100
Regulation violated:	F - 264.170-177.I
Area of violation:	TSD - General
Date violation determined:	12/07/1992
Date achieved compliance:	02/23/1994
Violation lead agency:	State
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	02/25/1993
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported

EDR ID Number Database(s)

**EPA ID Number** 

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Enforcement lead agency: State Proposed penalty amount: 2100 Final penalty amount: 2100 Paid penalty amount: 2100 Regulation violated: F - 262.40-43.D Area of violation: Generators - General Date violation determined: 12/07/1992 Date achieved compliance: 12/13/1993 Violation lead agency: State INITIAL 3008(A) COMPLIANCE Enforcement action: Enforcement action date: 02/25/1993 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: 2100 2100 Final penalty amount: Paid penalty amount: 2100 F - 262.10-12.A Regulation violated: Area of violation: Generators - General Date violation determined: 12/07/1992 12/13/1993 Date achieved compliance: Violation lead agency: State Enforcement action: WRITTEN INFORMAL Enforcement action date: 12/07/1992 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported Regulation violated: F - 264.170-177.I TSD - General Area of violation: Date violation determined: 12/07/1992 02/23/1994 Date achieved compliance: Violation lead agency: State WRITTEN INFORMAL Enforcement action: Enforcement action date: 12/07/1992 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported Regulation violated: FR - 262.30-34.C Area of violation: Generators - General Date violation determined: 06/25/1992 Date achieved compliance: 08/27/1992 Violation lead agency: FPA Enforcement action: WRITTEN INFORMAL Enforcement action date: 07/27/1992 Enf. disposition status: Not reported Enf. disp. status date: Not reported

Enforcement lead agency:

EPA

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Proposed penalty amount: Final penalty amount: Paid penalty amount:	Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.70-77.E TSD - General 08/26/1991 05/13/1992 EPA WRITTEN INFORMAL 09/05/1991 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268.7 LDR - General 08/26/1991 05/13/1992 EPA WRITTEN INFORMAL 09/05/1991 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 262.30-34.C Generators - General 08/26/1991 05/13/1992 EPA WRITTEN INFORMAL 09/05/1991 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount:	FR - 262.10-12.A Generators - General 08/26/1991 05/13/1992 EPA WRITTEN INFORMAL 09/05/1991 Not reported Not reported EPA Not reported

EDR ID Number Database(s) EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Final penalty amount: Paid penalty amount:	Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 262.50-60 Generators - General 08/26/1991 05/13/1992 EPA WRITTEN INFORMAL 09/05/1991 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268.7 LDR - General 05/02/1990 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.110-120.G TSD - Closure/Post-Closure 05/02/1990 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount:	FR - 270 TSD - General 05/02/1990 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported

Database(s) EPA ID

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Paid penalty amount:	Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268 ALL LDR - General 05/02/1990 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.70-77.E TSD - General 03/09/1989 06/12/1995 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported Not reported PA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268.7 LDR - General 03/09/1989 06/12/1995 EPA WRITTEN INFORMAL 05/25/1989 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268 ALL LDR - General 03/09/1989 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported Not reported

Database(s)

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Regulation violated: FR - 264.70-77.E Area of violation: TSD - General Date violation determined: 03/09/1989 Date achieved compliance: 06/12/1995 Violation lead agency: EPA Enforcement action: FINAL 3008(A) COMPLIANCE ORDER Enforcement action date: 09/28/1990 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: EPA Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported Regulation violated: FR - 268.7 Area of violation: LDR - General 03/09/1989 Date violation determined: 06/12/1995 Date achieved compliance: Violation lead agency: EPA FINAL 3008(A) COMPLIANCE ORDER Enforcement action: Enforcement action date: 09/28/1990 Enf. disposition status: Not reported Not reported Enf. disp. status date: Enforcement lead agency: EPA Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported Regulation violated: FR - 264.90-94.F Area of violation: TSD IS-Ground-Water Monitoring Date violation determined: 03/09/1989 Date achieved compliance: 06/12/1995 Violation lead agency: EPA Enforcement action: WRITTEN INFORMAL Enforcement action date: 05/25/1989 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: EPA Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported Regulation violated: FR - 268.7 Area of violation: LDR - General Date violation determined: 03/09/1989 Date achieved compliance: 06/12/1995 Violation lead agency: EPA Enforcement action: INITIAL 3008(A) COMPLIANCE Enforcement action date: 04/06/1990 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: EPA Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated:

FR - 264.70-77.E

Database(s)

EDR ID Number EPA ID Number

BARSTOW MARINE CORPS LOGISTICS BASE (Continued)		
Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency:	TSD - General 03/09/1989 06/12/1995 EPA WRITTEN INFORMAL 05/25/1989 Not reported Not reported EPA	
Proposed penalty amount: Final penalty amount: Paid penalty amount:	Not reported Not reported Not reported	
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.110-120.G TSD - Closure/Post-Closure 03/09/1989 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported	
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.90-94.F TSD IS-Ground-Water Monitoring 03/09/1989 06/12/1995 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported	
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.110-120.G TSD - Closure/Post-Closure 03/09/1989 06/12/1995 EPA Not reported Not reported	
Regulation violated: Area of violation:	FR - 264.90-94.F TSD IS-Ground-Water Monitoring	

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

	(
Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	03/09/1989 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 270 TSD - General 03/09/1989 06/12/1995 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268 ALL LDR - General 03/09/1989 06/12/1995 EPA Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.70-77.E TSD - General 03/09/1989 06/12/1995 EPA Not reported Not reported
Regulation violated: Area of violation: Date violation determined:	FR - 264.110-120.G TSD - Closure/Post-Closure 03/09/1989

Database(s)

EDR ID Number EPA ID Number

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BARSTOW MARINE CORPS LOG	ISTICS BASE (Continued)
Date achieved compliance:	06/12/1995
Violation lead agency:	EPA
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	04/06/1990
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 264.110-120.G
Area of violation:	TSD - Closure/Post-Closure
Date violation determined:	03/09/1989
Date achieved compliance:	06/12/1995
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	05/25/1989
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 268 ALL
Area of violation:	LDR - General
Date violation determined:	03/09/1989
Date achieved compliance:	06/12/1995
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	05/25/1989
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 270
Area of violation:	TSD - General
Date violation determined:	03/09/1989
Date achieved compliance:	06/12/1995
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	05/25/1989
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 264.90-94.F
Area of violation:	TSD IS-Ground-Water Monitoring
Date violation determined:	03/09/1989
Date achieved compliance:	06/12/1995

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Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

	ICTICC BACE (Continued)
Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	EPA Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 270 TSD - General 03/09/1989 06/12/1995 EPA Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268 ALL LDR - General 03/09/1989 06/12/1995 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 270 TSD - General 03/09/1989 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency:	FR - 268.7 LDR - General 03/09/1989 06/12/1995 EPA

Database(s)

EDR ID Number EPA ID Number

## BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

STOW MARINE CORPS LOG	ISTICS BASE (Continued)
Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 270 TSD - General 03/07/1989 06/12/1995 EPA WRITTEN INFORMAL 05/15/1989 Not reported Not reported State Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Propo sed penalty amount: Final penalty amount: Paid penalty amount:	FR - 270 TSD - General 03/07/1989 06/12/1995 EPA WRITTEN INFORMAL 05/15/1989 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268.7 LDR - General 12/07/1987 06/12/1995 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action:	FR - 270 TSD - General 12/07/1987 06/12/1995 EPA STATE TO EPA ADMINISTRATIVE REFERRAL

Database(s)

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued) Enforcement action date: 04/08/1988 Enf. disposition status: Not reported Not reported Enf. disp. status date: Enforcement lead agency: EPA Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported Regulation violated: FR - 268 ALL Area of violation: LDR - General Date violation determined: 12/07/1987 Date achieved compliance: 10/24/1990 Violation lead agency: EPA Enforcement action: FINAL 3008(A) COMPLIANCE ORDER Enforcement action date: 09/28/1990 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: EPA Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported FR - 270 Regulation violated: Area of violation: TSD - General Date violation determined: 12/07/1987 Date achieved compliance: 08/29/1991 Violation lead agency: EPA Enforcement action: FINAL 3008(A) COMPLIANCE ORDER Enforcement action date: 09/28/1990 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: EPA Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported Regulation violated: FR - 264.110-120.G Area of violation: TSD - Closure/Post-Closure Date violation determined: 12/07/1987 Date achieved compliance: 10/24/1990 EPA Violation lead agency: Enforcement action: Not reported Enforcement action date: Not reported Enf. disposition status: Not reported Not reported Enf. disp. status date: Enforcement lead agency: Not reported Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported Regulation violated: FR - 264.110-120.G Area of violation: TSD - Closure/Post-Closure Date violation determined: 12/07/1987 10/24/1990 Date achieved compliance: Violation lead agency: EPA STATE TO EPA ADMINISTRATIVE REFERRAL Enforcement action: Enforcement action date: 04/08/1988

Database(s) EF

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	Not reported Not reported EPA Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.70-77.E TSD - General 12/07/1987 06/12/1995 EPA STATE TO EPA ADMINISTRATIVE REFERRAL 04/08/1988 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.70-77.E TSD - General 12/07/1987 06/12/1995 EPA Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.70-77.E TSD - General 12/07/1987 06/12/1995 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status:	FR - 268 ALL LDR - General 12/07/1987 10/24/1990 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	Not reported EPA Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 270 TSD - General 12/07/1987 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.110-120.G TSD - Closure/Post-Closure 12/07/1987 10/24/1990 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 270 TSD - General 12/07/1987 06/12/1995 EPA Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date:	FR - 264.90-94.F TSD IS-Ground-Water Monitoring 12/07/1987 10/24/1990 EPA Not reported Not reported Not reported Not reported Not reported

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.90-94.F TSD IS-Ground-Water Monitoring 12/07/1987 10/24/1990 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.90-94.F TSD IS-Ground-Water Monitoring 12/07/1987 10/24/1990 EPA STATE TO EPA ADMINISTRATIVE REFERRAL 04/08/1988 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268 ALL LDR - General 12/07/1987 10/24/1990 EPA STATE TO EPA ADMINISTRATIVE REFERRAL 04/08/1988 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency:	FR - 270 TSD - General 12/07/1987 06/12/1995 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported Not reported EPA

Database(s) E

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Proposed penalty amount: Final penalty amount: Paid penalty amount:	Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.90-94.F TSD IS-Ground-Water Monitoring 12/07/1987 10/24/1990 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268.7 LDR - General 12/07/1987 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 264.110-120.G TSD - Closure/Post-Closure 12/07/1987 10/24/1990 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount:	FR - 270 TSD - General 12/07/1987 08/29/1991 EPA INITIAL 3008(A) COMPLIANCE 04/06/1990 Not reported Not reported EPA Not reported

Database(s) EPA ID

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Final penalty amount: Paid penalty amount:	Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Propo sed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268.7 LDR - General 12/07/1987 06/12/1995 EPA STATE TO EPA ADMINISTRATIVE REFERRAL 04/08/1988 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 270 TSD - General 12/07/1987 08/29/1991 EPA STATE TO EPA ADMINISTRATIVE REFERRAL 04/08/1988 Not reported Not reported EPA Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268.7 LDR - General 12/07/1987 06/12/1995 EPA Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount:	FR - 264.70-77.E TSD - General 12/07/1987 06/12/1995 EPA FINAL 3008(A) COMPLIANCE ORDER 09/28/1990 Not reported Not reported EPA Not reported Not reported Not reported Not reported

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Paid penalty amount:	Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 270 TSD - General 12/07/1987 08/29/1991 EPA Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 268 ALL LDR - General 12/07/1987 10/24/1990 EPA Not reported Not reported
Evaluation Action Summary: Evaluation date: Evaluation: Area of violation: Date achieved compliance: Evaluation lead agency:	06/12/2006 COMPLIANCE EVALUATION INSPECTION ON-SITE Not reported Not reported Local
Evaluation date:	12/03/1998
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	02/27/1999
Evaluation lead agency:	EPA
Evaluation date:	12/13/1993
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	02/23/1994
Evaluation lead agency:	State
Evaluation date:	10/21/1992
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved compliance:	02/23/1994
Evaluation lead agency:	State
Evaluation date:	10/21/1992
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE

EDR ID Number Database(s) EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Area of violation:	Generators - General		
Date achieved compliance:	12/13/1993		
Evaluation lead agency:	State		
Evaluation date:	05/21/1992		
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE		
Area of violation:	Generators - General		
Date achieved compliance:	08/27/1992		
Evaluation lead agency:	EPA Contractor/Grantee		
Evaluation date:	05/07/1991		
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE		
Area of violation:	LDR - General		
Date achieved compliance:	05/13/1992		
Evaluation lead agency:	EPA		
Evaluation date:	05/07/1991		
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE		
Area of violation:	Generators - General		
Date achieved compliance:	05/13/1992		
Evaluation lead agency:	EPA		
Evaluation date:	05/07/1991		
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE		
Area of violation:	TSD - General		
Date achieved compliance:	05/13/1992		
Evaluation lead agency:	EPA		
Evaluation date:	05/02/1990		
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE		
Area of violation:	TSD - Closure/Post-Closure		
Date achieved compliance:	06/12/1995		
Evaluation lead agency:	EPA		
Evaluation date:	05/02/1990		
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE		
Area of violation:	TSD - General		
Date achieved compliance:	06/12/1995		
Evaluation lead agency:	EPA		
Evaluation date:	05/02/1990		
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE		
Area of violation:	LDR - General		
Date achieved compliance:	06/12/1995		
Evaluation lead agency:	EPA		
Evaluation date:	03/09/1989		
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE		
Area of violation:	TSD - General		
Date achieved compliance:	06/12/1995		
Evaluation lead agency:	EPA		
Evaluation date:	03/09/1989		
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE		
Area of violation:	TSD - Closure/Post-Closure		
Date achieved compliance:	06/12/1995		
Evaluation lead agency:	EPA		

EDR ID Number Database(s)

EPA ID Number

1000389921

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Evaluation date:	03/09/1989
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	LDR - General
Date achieved complian	ce: 06/12/1995
Evaluation lead agency:	EPA
Evaluation date:	03/09/1989
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD IS-Ground-Water Monitoring
Date achieved complian	ce: 06/12/1995
Evaluation lead agency:	EPA
Evaluation date:	03/07/1989
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	TSD - General
Date achieved complian	ce: 06/12/1995
Evaluation lead agency:	EPA
Evaluation date:	12/07/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved complian	ce: 06/12/1995
Evaluation lead agency:	EPA
Evaluation date:	12/07/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Closure/Post-Closure
Date achieved complian	ce: 10/24/1990
Evaluation lead agency:	EPA
Evaluation date:	12/07/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	LDR - General
Date achieved complian	ce: 10/24/1990
Evaluation lead agency:	EPA
Evaluation date:	12/07/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General
Date achieved complian	ce: 08/29/1991
Evaluation lead agency:	EPA
Evaluation date:	12/07/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD IS-Ground-Water Monitoring
Date achieved complian	ce: 10/24/1990
Evaluation lead agency:	EPA
Evaluation date:	12/07/1987
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	LDR - General
Date achieved complian	ce: 06/12/1995
Evaluation lead agency:	EPA
US ENG CONTROLS: EPA ID: Site ID: Name:	CA8170024261 0902790 BARSTOW MARINE CORPS LOGISTICS BASE

Database(s)

EDR ID Number EPA ID Number

1000389921

BAR	STOW MARINE CORPS	LOGISTICS BASE (Continued)
	Address:	MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311
	EPA Region:	09 SAN BERNARDINO
	County: Event Code:	Not reported
	Actual Date:	06/30/1998
	Contact Name:	Not reported
	Contact Phone and Ext:	· · · ·
	Latitude: Longitude:	Not reported Not reported
	Longhude.	
	Action ID: Action Name:	
	Action Completion date:	RECORD OF DECISION 04/22/1998
	Operable Unit:	01
	Contaminated Media :	Groundwater
	Engineering Control:	Air Sparging
	Contact Name: Contact Phone and Ext:	Not reported
	Latitude:	Not reported
	Longitude:	Not reported
	Action ID:	001
	Action Name:	RECORD OF DECISION
	Action Completion date:	
	Operable Unit: Contaminated Media :	01 Groundwater
	Engineering Control:	Carbon Adsorption
	Contact Name:	Not reported
	Contact Phone and Ext:	
	Latitude: Longitude:	Not reported Not reported
	Longhudo.	
	Action ID:	
	Action Name: Action Completion date:	RECORD OF DECISION
	Operable Unit:	01
	Contaminated Media :	Groundwater
	Engineering Control:	Discharge
	Contact Name: Contact Phone and Ext:	Not reported
	Latitude:	Not reported
	Longitude:	Not reported
	Action ID:	001
	Action Name:	RECORD OF DECISION
	Action Completion date: Operable Unit:	04/22/1998 01
	Contaminated Media :	Groundwater
	Engineering Control:	Disposal
	Contact Name:	Not reported
	Contact Phone and Ext: Latitude:	Not reported Not reported
	Longitude:	Not reported
	Action ID:	001
	Action ID: Action Name:	RECORD OF DECISION

## B

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	01 Groundwater Extraction Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	01 Groundwater Infiltration basin/trench Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	01 Groundwater Monitoring Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	01 Soil Monitoring Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	01 Soil Soil Vapor Extraction (in-situ) Not reported
Action ID: Action Name: Action Completion date: Operable Unit:	002 RECORD OF DECISION 06/03/1997 03

Database(s)

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Contaminated Media : Soil Engineering Control: No Action Contact Name: Not reported Contact Phone and Ext: Not reported Latitude: Not reported Longitude: Not reported Action ID: 002 Action Name: RECORD OF DECISION Action Completion date: 06/03/1997 Operable Unit: 03 Contaminated Media : Soil Engineering Control: No Further Action Contact Name: Not reported Contact Phone and Ext: Not reported Latitude: Not reported Longitude: Not reported Action ID: 002 RECORD OF DECISION Action Name: Action Completion date: 06/03/1997 Operable Unit: 03 Contaminated Media : Solid Waste Engineering Control: Cap Contact Name: Not reported Contact Phone and Ext: Not reported Not reported Latitude: Longitude: Not reported Action ID: 002 Action Name: RECORD OF DECISION Action Completion date: 06/03/1997 Operable Unit: 03 Contaminated Media : Solid Waste Engineering Control: Consolidate Contact Name: Not reported Contact Phone and Ext: Not reported Latitude: Not reported Longitude: Not reported Action ID: 002 Action Name: RECORD OF DECISION Action Completion date: 06/03/1997 Operable Unit: 03 Contaminated Media : Solid Waste Engineering Control: Disposal Contact Name: Not reported Contact Phone and Ext: Not reported Latitude: Not reported Longitude: Not reported Action ID: 002 RECORD OF DECISION Action Name: Action Completion date: 06/03/1997 Operable Unit: 03 Contaminated Media : Solid Waste Engineering Control: Excavation

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Contact Name: Contact Phone and Ext: Latitude: Longitude:	Not reported Not reported Not reported Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	03 Solid Waste Monitoring Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	03 Solid Waste Surface Drainage Control Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	05 Groundwater Monitoring Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	05 Soil Cap Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext:	05 Soil Monitoring Not reported

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Latitude: Longitude:	Not reported Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	05 Soil No Action Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Groundwater Air Sparging Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Groundwater Carbon Adsorption Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Groundwater Containment, (N.O.S.) Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Groundwater Discharge Not reported

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Groundwater Disposal Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Groundwater Extraction Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Groundwater Infiltration basin/trench Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Groundwater Monitoring Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Groundwater Natural Attenuation Not reported
Action ID: Action Name:	006 RECORD OF DECISION

Database(s)

EDR ID Number EPA ID Number

1000389921

BARSTOW MARINE CORPS	LOGISTICS BASE (Continued)
Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Groundwater Well Head Treatment Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Soil Monitoring Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	02 Soil Soil Vapor Extraction (in-situ) Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	04 Soil No Action Not reported
Action ID: Action Name: Action Completion date: Operable Unit: Contaminated Media : Engineering Control: Contact Name: Contact Phone and Ext: Latitude: Longitude:	04 Soil No Further Action Not reported
Action ID: Action Name: Action Completion date: Operable Unit:	008 RECORD OF DECISION 01/23/1998 06

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Database(s)

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Contaminated Media : Groundwater Engineering Control: Monitoring Contact Name: Not reported Contact Phone and Ext: Not reported Latitude: Not reported Longitude: Not reported Action ID: 008 Action Name: RECORD OF DECISION Action Completion date: 01/23/1998 Operable Unit: 06 Contaminated Media : Soil Engineering Control: Cap Contact Name: Not reported Contact Phone and Ext: Not reported Latitude: Not reported Not reported Longitude: Action ID: 008 RECORD OF DECISION Action Name: Action Completion date: 01/23/1998 Operable Unit: 06 Contaminated Media : Soil Engineering Control: Monitoring Contact Name: Not reported Contact Phone and Ext: Not reported Latitude: Not reported Longitude: Not reported Action ID: 008 Action Name: RECORD OF DECISION Action Completion date: 01/23/1998 Operable Unit: 06 Contaminated Media : Soil Engineering Control: No Action Contact Name: Not reported Contact Phone and Ext: Not reported Latitude: Not reported Longitude: Not reported

## US INST CONTROL:

EPA ID: Site ID:	CA8170024261 0902790
Name:	BARSTOW MARINE CORPS LOGISTICS BASE
Action Name:	RECORD OF DECISION
Address:	MARINE CORPS LOGIS BASE- NEBO
	BARSTOW, CA 92311
EPA Region:	09
County:	SAN BERNARDINO
Event Code:	Not reported
Inst. Control:	Access Restriction
Actual Date:	06/30/1998
Complet. Date:	04/22/1998
Operable Unit:	01
Contaminated Media :	Groundwater
Contact Name :	Not reported

Database(s)

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Contact Phone and Ext : Not reported Latitude : Not reported Longitude : Not reported EPA ID: CA8170024261 Site ID: 0902790 Name: BARSTOW MARINE CORPS LOGISTICS BASE Action Name: RECORD OF DECISION Address: MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311 EPA Region: 09 SAN BERNARDINO County: Event Code: Not reported Inst. Control: Groundwater use/well drilling regulation Actual Date: 06/30/1998 Complet. Date: 04/22/1998 Operable Unit: 01 Contaminated Media : Groundwater Contact Name : Not reported Contact Phone and Ext : Not reported Not reported Latitude : Longitude : Not reported EPA ID: CA8170024261 Site ID: 0902790 BARSTOW MARINE CORPS LOGISTICS BASE Name: Action Name: RECORD OF DECISION Address: MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311 EPA Region: 09 SAN BERNARDINO County: Event Code: Not reported Inst. Control: Base use plan change Actual Date: 06/30/1997 06/03/1997 Complet. Date: Operable Unit: 03 Contaminated Media : Solid Waste Contact Name : Not reported Contact Phone and Ext : Not reported Latitude : Not reported Longitude : Not reported EPA ID: CA8170024261 Site ID: 0902790 Name: BARSTOW MARINE CORPS LOGISTICS BASE RECORD OF DECISION Action Name: Address: MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311 EPA Region: 09 SAN BERNARDINO County: Event Code: Not reported Inst. Control: Institutional Controls, (N.O.S.) Actual Date: 06/30/1997 06/03/1997 Complet. Date: Operable Unit: 03 Contaminated Media : Solid Waste Contact Name : Not reported

Database(s)

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Contact Phone and Ext : Not reported Latitude : Not reported Longitude : Not reported EPA ID: CA8170024261 Site ID: 0902790 Name: BARSTOW MARINE CORPS LOGISTICS BASE Action Name: RECORD OF DECISION Address: MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311 EPA Region: 09 SAN BERNARDINO County: Event Code: Not reported Inst. Control: Base use plan change Actual Date: 03/31/1998 Complet. Date: 01/23/1998 Operable Unit: 05 Contaminated Media : Soil Contact Name : Not reported Contact Phone and Ext : Not reported Not reported Latitude : Longitude : Not reported EPA ID: CA8170024261 Site ID: 0902790 BARSTOW MARINE CORPS LOGISTICS BASE Name: Action Name: RECORD OF DECISION Address: MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311 EPA Region: 09 County: SAN BERNARDINO Event Code: Not reported Inst. Control: Land Use Restriction Actual Date: 03/31/1998 Complet. Date: 01/23/1998 Operable Unit: 05 Contaminated Media : Soil Contact Name : Not reported Contact Phone and Ext : Not reported Latitude : Not reported Longitude : Not reported EPA ID: CA8170024261 Site ID: 0902790 Name: BARSTOW MARINE CORPS LOGISTICS BASE RECORD OF DECISION Action Name: Address: MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311 EPA Region: 09 SAN BERNARDINO County: Event Code: Not reported Inst. Control: Access Restriction Actual Date: 06/30/1998 04/22/1998 Complet. Date: Operable Unit: 02 Contaminated Media : Groundwater Contact Name : Not reported

Database(s)

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Contact Phone and Ext : Not reported Latitude : Not reported Longitude : Not reported EPA ID: CA8170024261 Site ID: 0902790 Name: BARSTOW MARINE CORPS LOGISTICS BASE Action Name: RECORD OF DECISION Address: MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311 EPA Region: 09 SAN BERNARDINO County: Event Code: Not reported Inst. Control: Groundwater use/well drilling regulation Actual Date: 06/30/1998 Complet. Date: 04/22/1998 Operable Unit: 02 Contaminated Media : Groundwater Contact Name : Not reported Contact Phone and Ext : Not reported Not reported Latitude : Longitude : Not reported EPA ID: CA8170024261 Site ID: 0902790 BARSTOW MARINE CORPS LOGISTICS BASE Name: Action Name: RECORD OF DECISION Address: MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311 EPA Region: 09 SAN BERNARDINO County: Event Code: Not reported Inst. Control: Base use plan change Actual Date: 03/31/1998 Complet. Date: 01/23/1998 Operable Unit: 06 Contaminated Media : Soil Contact Name : Not reported Contact Phone and Ext : Not reported Latitude : Not reported Longitude : Not reported EPA ID: CA8170024261 Site ID: 0902790 Name: BARSTOW MARINE CORPS LOGISTICS BASE RECORD OF DECISION Action Name: Address: MARINE CORPS LOGIS BASE- NEBO BARSTOW, CA 92311 EPA Region: 09 SAN BERNARDINO County: Event Code: Not reported Inst. Control: Land Use Restriction Actual Date: 03/31/1998 01/23/1998 Complet. Date: Operable Unit: 06 Contaminated Media : Soil Contact Name : Not reported

Database(s)

EDR ID Number EPA ID Number

Contact Phone and Ext	t:Not reported
Latitude :	Not reported
Longitude :	Not reported
ROD:	
	Full-text of USEPA Record of Decision(s) is available from EDR.
NY MANIFEST:	
EPA ID:	CA8170024261
Country:	
Location Address 1:	MARINE CORP LOGISTICS BASE
Location Address 2:	Not reported
Location City:	BLDG 226 BARSTOW
Location State:	CA
Location Zip Code:	92311 Not see set of
Location Zip Code 4:	Not reported
Mailing Info:	
Name:	UNITED STATES MILITARY-DPDO BARSTOW
Contact:	UNITED STATES MILITARY-DPDO BARSTOW
Address:	MARINE CORP LOGISTICS BASE
City/State/Zip:	BLDG 226 BARSTOW, CA 92311
Country:	USA
Phone:	805-277-2209
Manifest:	
Document ID:	NYA1236222
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	3B34024
Trans2 State ID:	TRL74224-
Generator Ship Date:	04/23/1985
Trans1 Recv Date:	04/23/1985
Trans2 Recv Date:	04/24/1985
TSD Site Recv Date:	05/20/1985
Part A Recv Date:	06/03/1985
Part B Recv Date:	06/03/1985
Generator EPA ID:	CA8170024261
Trans1 EPA ID:	GAD042097261
Trans2 EPA ID:	GAD042097261
TSDF ID:	NYD000632372
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	09027
Units:	P - Pounds
Number of Containers:	
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	1985
Document ID:	NYG3237228
Manifest Status:	Not reported
Trans1 State ID:	AD62852NY
Trans2 State ID:	Not reported

Database(s)

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

1 F F C C T T T T T V V C C U U V V C C U V V C C S S S S S S S S S S S S S S S S	Trans1 Recv Date: Trans2 Recv Date: TSD Site Recv Date: Part A Recv Date: Part B Recv Date: Generator EPA ID: Trans1 EPA ID: Trans2 EPA ID: TSDF ID: Naste Code: Quantity: Junits: Number of Container Container Type: Handling Method: Specific Gravity: Naste Code: Quantity: Junits: Number of Container Container Type: Handling Method: Specific Gravity: Yes: Handling Method: Specific Gravity: Year:	rs:	07/01/2002 Not reported 07/17/2002 Not reported OCA8170024261 NYD982792814 Not reported NYD000632372 D001 - NON-LISTED IGNITABLE WASTES 00005 P - Pounds 001 CY - Cylinders T Chemical, physical, or biological treatment. 01.00 D001 - NON-LISTED IGNITABLE WASTES 00750 P - Pounds 007 CY - Cylinders B Incineration, heat recovery, burning. 01.00 2002
	ZNET: envid:	1000389	921
	lear:	2013	
C	GEPAID:	CA81700	024261
C	Contact:	Freezy S	malls
Г	Felephone:	7605784	648
Ν	Mailing Name:	Not repo	rted
Ν	Mailing Address:	POBOX	110570
Ν	Vailing City, St, Zip:	BARSTO	DW, CA 923110000
C	Gen County:	San Berr	
Т	ISD EPA ID:	CAD008	364432
Г	ISD County:	Los Ange	eles
V	Naste Category:	Not repo	rted
C	Disposal Method:	Fuel Blei	nding Prior To Energy Recovery At Another Site
Г	Tons:	0.0955	
F	Facility County:	Not repo	rted
	envid:	1000389	921
	fear:	2013	204004
	GEPAID:	CA81700	
	Contact:	Freezy S	
	Felephone:	7605784	
	Mailing Name:	Not repo	
	Mailing Address:	POBOX	
	Mailing City, St, Zip:		DW, CA 923110000
	Gen County:	San Berr	
	ISD EPA ID:	NVT3300	010000
	ISD County:	99	
	Waste Category:	Not repo	
0	Disposal Method:		Dr Surface Impoundment That Will Be Closed As Landfill( To
_	-		Dn-Site Treatment And/Or Stabilization)
Т	Fons:	800.0	

Database(s)

EDR ID Number EPA ID Number

1000389921

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Facility County:	Not reported
envid: Year: GEPAID: Contact: Telephone: Mailing Name: Mailing Address: Mailing City,St,Zip: Gen County: TSD EPA ID: TSD County: Waste Category: Disposal Method: Tons: Facility County:	1000389921 2013 CA8170024261 Freezy Smalls 7605784648 Not reported PO BOX 110570 BARSTOW, CA 923110000 San Bemardino CAD008364432 Los Angeles Not reported Storage, Bulking, And/Or Transfer Off SiteNo Treatment/Reovery (H010-H129) Or (H131-H135) 0.017 Not reported
envid: Year: GEPAID: Contact: Telephone: Mailing Name: Mailing Address: Mailing City,St,Zip: Gen County: TSD EPA ID: TSD County: Waste Category: Disposal Method: Tons: Facility County:	1000389921 2013 CA8170024261 Freezy Smalls 7605784648 Not reported PO BOX 110570 BARSTOW, CA 923110000 San Bemardino CAD008364432 Los Angeles Not reported Storage, Bulking, And/Or Transfer Off SiteNo Treatment/Reovery (H010-H129) Or (H131-H135) 0.0225 Not reported
envid: Year: GEPAID: Contact: Telephone: Mailing Name: Mailing Address: Mailing City,St,Zip: Gen County: TSD EPA ID: TSD County: Waste Category: Disposal Method: Tons: Facility County:	1000389921 2013 CA8170024261 Freezy Smalls 7605784648 Not reported PO BOX 110570 BARSTOW, CA 923110000 San Bemardino CAD008364432 Los Angeles Not reported Fuel Blending Prior To Energy Recovery At Another Site 0.001 Not reported

<u>Click this hyperlink</u> while viewing on your computer to access 2352 additional CA\_HAZNET: record(s) in the EDR Site Report.

## ENVIROSTOR: Facility ID:

Database(s)

EDR ID Number EPA ID Number

#### BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

Status: Refer: Other Agency Status Date: 12/30/2010 Site Code: Not reported Site Type: Tiered Permit Site Type Detailed: **Tiered Permit** Acres: 0 NPL: YES SMBRP, RWQCB 6V - Lahontan, US EPA **Regulatory Agencies:** Lead Agency: US EPA Program Manager: Sue Hakim Supervisor: Robert Senga Division Branch: **Cleanup Cypress** Assembly: 33 Senate: 16 Special Program: Not reported Restricted Use: NO NONE SPECIFIED Site Mgmt Req: Funding: Not reported Latitude: 34.87609 Longitude: -116.9536 APN: NONE SPECIFIED Past Use: NONE SPECIFIED Potential COC: NONE SPECIFIED Confirmed COC: NONE SPECIFIED Potential Description: NONE SPECIFIED Alias Name: CA8170024261 Alias Type: EPA Identification Number Alias Name: 80001276 Alias Type: Envirostor ID Number 36970001 Alias Name: Alias Type: Envirostor ID Number Completed Info: Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: \* Other Instrument Completed Date: 09/28/1990 Comments: Not reported Future Area Name: Not reported Not reported Future Sub Area Name: Not reported Future Document Type: Future Due Date: Not reported Schedule Area Name: Not reported Schedule Sub Area Name: Not reported Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported HWP: CA8170024261 EPA Id: Cleanup Status: PROTECTIVE FILER Latitude: 34.87609 -116.9536 Longitude: Facility Type: Historical - Non-Operating Facility Size: Not reported Team: Not reported

Database(s) EPA ID

EDR ID Number EPA ID Number

# BARSTOW MARINE CORPS LOGISTICS BASE (Continued)

1000389921

Supervisor:	Not reported
Site Code:	Not reported
Assembly District:	33
Senate District:	16
Public Information Officer:	Not reported
Activities:	
EPA Id:	CA8170024261
Facility Type:	Historical - Non-Operating
Unit Names:	TANKSTR1
Event Description:	Protective Filer Status - PROTECTIVE FILER (RECEIVED)
Actual Date:	01/01/1995
EPA Id:	CA8170024261
Facility Type:	Historical - Non-Operating
Unit Names:	TANKSTR1
Event Description:	Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date:	01/01/1995

### B39 COOL WATER GENERATING STATION 37072 E. SANTA FE ROAD

### < 1/8 DAGGETT, CA 92327

1 ft.

### Site 1 of 8 in cluster B

Relative:	HIST UST:	
Lower	Region:	STATE
	Facility ID:	0000066314
Actual:	Facility Type:	Other
1944 ft.	Other Type:	ELECTRIC UTILITY
	Contact Name:	ROMAN AGUILAR
	Telephone:	6192542921
	Owner Name:	SOUTHERN CALIFORNIA EDISON COM
	Owner Address:	2244 WALNUT GROVE AVENUE
	Owner City, St, Zip:	ROSEMEAD, CA 91770
	Total Tanks:	0009
	Tank Num:	001
	Container Num:	527
	Year Installed:	Not reported
	Tank Capacity:	0000000
	Tank Used for:	WASTE
	Type of Fuel:	5
	Container Construction Thickness:	Х
	Leak Detection:	None
	Tank Num:	002
	Container Num:	433
	Year Installed:	Not reported
	Tank Capacity:	0000000
	Tank Used for:	WASTE
	Type of Fuel:	1
	Container Construction Thickness:	Х
	Leak Detection:	None
	Tank Num:	003
	Container Num:	476

CA HIST UST U001574738 N/A

Database(s)

EDR ID Number EPA ID Number

# COOL WATER GENERATING STATION (Continued)

L WATER GENERATING STATION	(Continued)
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	X
Leak Detection:	None
Tank Num:	004
Container Num:	477
Year Installed:	Not reported
Tank Capacity:	0000000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	005
Container Num:	478
Year Installed:	Not reported
Tank Capacity:	0000300
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	006
Container Num:	479
Year Installed:	Not reported
Tank Capacity:	0000000
Tank Used for:	WASTE
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	007
Container Num:	480
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	008
Container Num:	481
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	009
Container Num:	482
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE

# U001574738

		(			
Map ID			MAP FINDINGS		
Direction		٩			
Distance Elevation	Site			Database(s)	EDR ID Numb EPA ID Numb
	COOL WATER GENERATIN	IG STATION	I (Continued)		U001574738
	Type of Fuel:		06		
	Container Construction Leak Detection:	Thickness:	Not reported None		
340	SOLAR ONE GENERATING	STATION		CA HIST UST	U001574745
< 1/8   ft.	E. SANTA FE ROAD DAGGETT, CA 92327				N/A
	Site 2 of 8 in cluster B				
Re lati ve:	HIST UST:				
ower	Region:		STATE		
Actual:	Facility ID:		00000066329 Other		
944 ft.	Facility Type: Other Type:		Other ELECTRIC UTILITY		
-	Contact Name:		A.Z. KOVACH		
	Telephone:		8183021801		
	Owner Name:		SOUTHERN CALIFORNIA EDISON COM		
	Owner Address:		2244 WALNUT GROVE AVENUE		
	Owner City, St, Zip:		ROSEMEAD, CA 91770		
	Total Tanks:		0001		
	Tank Num:		001		
	Container Num:		475		
	Year Installed:		Not reported		
	Tank Capacity: Tank Used for:		00000000 PRODUCT		
	Type of Fuel:		Not reported		
	Container Construction	Thickness.	X		
	Leak Detection:		None		
341	COOLWATER GENERATIN 37000 SAN FE ST	GSIA		CA UST	U004050748 N/A
< 1/8	DAGGETT, CA 92327				N/A
ft.	Site 3 of 8 in cluster B				
Re lati ve:	UST:				
.ower	Facility ID:	8701	4400		
	Permitting Agency:	SAN	BERNARDINO COUNTY		
Actual: 944 ft.	Latitude:		63455		
344 IL.	Longitude:	-116	.8579		
342	COOL WATER GENERATIN			CA SWEEPS UST	
: 1/8	37072 E SANTA FE RD DAGGETT, CA 92327				N/A
ft.	Site 4 of 8 in cluster B				
5-1- <i>1</i>	SWEEDSLIST				
	SWEEPS UST: Status:	Active			
Re lati ve: ∟ower	Status:	Active 66314			
ower		Active 66314 9			
	Status: Comp Number:	66314 9	d		

Database(s)

EDR ID Number EPA ID Number

# B43 COOLWATER COAL GAS PLANT

# 37072 E SANTA FE RD 1/8 DAGGETT, CA 92327

< 1/8 1 ft.

# Site 5 of 8 in cluster B

Re lative:	SWEEPS UST:	
Lower	Status:	Active
Actual:	Comp Number:	58855
1944 ft.	Number:	1
1344 11.	Board Of Equalization:	
	Referral Date: Action Date:	08-28-91 08-28-91
	Created Date:	02-29-88
	Owner Tank Id:	
	SWRCB Tank Id:	(405)
	Tank Status:	36-000-058855-000002 A
	Capacity:	10000
	Active Date:	07-01-85
	Tank Use:	M.V. FUEL
	STG:	P
	Content:	DIESEL
	Number Of Tanks:	1
	Statuc	Not reported
	Status:	Not reported 58855
	Comp Number: Number:	
	Board Of Equalization:	Not reported 44-021272
	Referral Date:	Not reported
	Action Date:	Not reported
	Created Date:	Not reported
	Owner Tank Id:	Not reported
	SWRCB Tank Id:	36-000-058855-000001
	Tank Status:	Not reported
	Capacity:	10000
	Active Date:	Not reported
	Tank Use:	M.V. FUEL
	STG:	PRODUCT
	Content:	REG UNLEADED
	Number Of Tanks:	1

# S106924899

CA SWEEPS UST S106924901 N/A

EDR ID Number Database(s) EPA ID Number

B44	COOLWATER GENERATING 37072 SANTA FE RD E		CA HIST CORTESE CA LUST	S102428348 N/A
< 1/8	DAGGETT, CA 92327			
1 ft.	Site 6 of 8 in cluster B			
Relative:	HIST CORTESE:			
Lower	- 5 -	CORTESE		
Actual:		36 LTNKA		
1944 ft.	- 3 7	6B3600079T		
	J			
	LUST:			
	Region:	STATE		
	Global Id:	T0607100667		
	Latitude:	34.8456653		
	Longitude:	-116.7768058		
	Case Type:	Not reported		
	Status: Status Date:	Completed - Case Closed		
	Lead Agency:	10/23/1989		
	Case Worker:	Not reported Not reported		
	Local Agency:	Not reported		
	RB Case Number:	6B3600079T		
	LOC Case Number:	Not reported		
	File Location:	Local Agency		
	Potential Media Affect:	Soil		
	Potential Contaminants of Cond	cern: Diesel		
	Site History:	Not reported		
	Click here to access the Califor	nia GeoTracker records for this facility:		
	Contact:			
	Global Id:	T0607100667		
	Contact Type:	Regional Board Caseworker		
	Contact Name:	JEHIEL CASS		
	Organization Name:	LAHONTAN RWQCB (REGION 6V)		
	Address:	14440 CIVIC DRIVE, SUITE 200		
	City:	VICTORVILLE		
	Email:	jcass@waterboards.ca.gov		
	Phone Number:	7602412434		
	Status History:			
	Global Id:	T0607100667		
	Status:	Completed - Case Closed		
	Status Date:	10/23/1989		
	Global Id:	T0607100667		
	Status:	Open - Case Begin Date		
	Status Date:	11/17/1987		
	Global Id:	T0607100667		
	Status:	Open - Site Assessment		
	Status Date:	11/17/1987		
	Regulatory Activities:			
	Global Id:	T0607100667		
	Action Type:	Other		

EDR ID Number Database(s) EPA ID Number

EPA ID Number

Date: Action:	11/17/1987 Leak Reported
Global Id:	T0607100667
Action Type:	ENFORCEMENT
Date:	06/03/1993
Action:	* Historical Enforcement

LUST Region 6V:	
Region:	6V
Case Number:	6B3600079T
Leak Record:	11/24/1987
Report Date:	11/17/1987
Reported By Address:	Not reported
Responsible Party:	SCE
Operator:	SOUTHERN CA EDISON
Cross Street:	Not reported
Local Agency:	36000L
Regional Board:	6V
Chemical:	Diesel
Case Type:	Soil only
Funding:	Not reported
Enforce Type:	EF
How Found:	Tank Closure
How Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Global ID:	T0607100667
Stop Date:	Not reported
Leak Confirm:	Not reported
Submit Workplan:	Not reported
Prelim Assess:	Not reported
Pollution Char:	11/17/1987
Remed Plan:	Not reported
Remed Action:	Not reported
Monitoring:	Not reported
Close Date:	10/23/1989
Discovered:	Not reported
Enforce Date:	6/3/1993
Review Date:	3/28/1989
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
MTBE class:	*
Max MTBE Grnd Wtr:	Not reported
Max MTBE Soil:	Not reported
MTBE Counts:	0
MTBE Fuel:	0
MTBE Tested:	NRQ
Organization Name:	Not reported
Status:	Case Closed
Contact:	Not reported
Interim Action:	Not reported
Pilot Program:	LUST
Lat/Long:	34.8456653 / -116.7768058
Staff Initials:	KD
Local Agency Staff:	RR1

# S102428348

	r		_	
Map ID Direction		MAP FINDINGS		
Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
	COOLWATER GENERATING	(Continued)		S102428348
	Lead Agency: Summary: Basin Number: Beneficial: Priority: UST Cleanup Fund ID: Suspended: Local Case Number: Amount: Abate Method: Water System: Well Name:	Local Agency RESEARCHING LOWER MOJAVE RIVER V Not reported Not reported Not reported 20175 Not reported Not reported Not reported Not reported Not reported S262.66084		
	Wst Disch Reqrmnt Nam			
B45 < 1/8 1 ft.	COOL WATER GENERATING PO BOX 337 DAGGETT, CA 92327 Site 7 of 8 in cluster B	STATION	CA HIST UST	U001574737 N/A
Relative:	HIST UST:			
Lower	Region: Facility ID:	STATE 00000060016		
Actual: 1944 ft.	Facility Type: Other Type: Contact Name: Telephone: Owner Name: Owner Address: Owner City,St,Zip: Total Tanks:	Not reported Not reported ROMAN AGUILAR 6192542921 SOUTHERN CALIFORNIA EDISON CO 2244 WALNUT GROVE AVENUE ROSEMEAD, CA 91770 0001	Μ	
	Tank Num:	001		
	Container Num: Year Installed: Tank Capacity: Tank Used for. Type of Fuel: Container Construction T Leak Detection:	397 1977 00005200 WASTE Not reported		
B46	COOL WATER COAL GASIF 37072 E. SANTA FE ROAD	CATION	CA HIST UST	U001574736 N/A
< 1/8 1 ft.	DAGGETT, CA 92327			
1 IL.	Site 8 of 8 in cluster B			
Re lati ve: Lower	HIST UST: Region: Facility ID:	STATE 00000058855		

Database(s) EPA

EDR ID Number EPA ID Number

# COOL WATER COAL GASIFICATION (Continued)

Owner Name:	COOL WATER COAL GASIFICATION
Owner Address:	37072 E. SANTA FE ROAD
Owner City,St,Zip:	DAGGETT, CA 92327
Total Tanks:	0008
Tank Num:	001
Container Num:	(398)
Year Installed:	Not reported
Tank Capacity:	00007500
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	14
Leak Detection:	None
Tank Num:	002
Container Num:	(399)
Year Installed:	Not reported
Tank Capacity:	00005000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	None
Tank Num:	003
Container Num:	(400)
Year Installed:	Not reported
Tank Capacity:	00004000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	12
Leak Detection:	None
Tank Num:	004
Container Num:	(401)
Year Installed:	Not reported
Tank Capacity:	00005500
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	12
Leak Detection:	None
Tank Num:	005
Container Num:	(402)
Year Installed:	1983
Tank Capacity:	00200000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	18
Leak Detection:	None
Tank Num:	006
Container Num:	(404)
Year Installed:	1982
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported

# U001574736

C47

EPTC COOLWATER

Used oil fuel burner:

Database(s)

EDR ID Number EPA ID Number

U001574736

### COOL WATER COAL GASIFICATION (Continued)

•	,
Leak Detection:	None
Tank Num:	007
Container Num:	(405)
Year Installed:	1982
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	008
Container Num:	(403)
Year Installed:	Not reported
Tank Capacity:	00015000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	12
Leak Detection:	None

RCRA-TSDF 1015732611 CERC-NFRAP стѕ SQG

CAD 000630 905

SW 1/4-1/2 0.429 mi.	37000 SANTA FE RD. DAGGETT, CA 92327	CERC-NFRA CORRACTS RCRA-SQ
2267 ft.	Site 1 of 2 in cluster C	
Relative: Higher	RCRA-TSDF: Date form received by agency: 0 Facility name:	3/04/1999 PTC COOLWATER
Actual: 1984 ft.	Site name: C Facility address: 3	200L WATER GEN. STA. 2000 SANTA FE RD. 200GGETT, CA 92327
	Mailing address: 2	CAD000630905 244 WALNUT GROVE AVE ROOM 405 ROSEMEAD, CA 91770
	Contact address: N	ATHRYN VANDERSLICE lot reported lot reported
	Contact telephone: (	JS 526) 302-9320 lot reported
	EPA Region: 0 Land type: F	9 9 rivate SDF
	Description:	landler is engaged in the treatment, storage or disposal of hazardous vaste
	Handler Activities Summary:	
	U.S. importer of hazardous was Mixed waste (haz. and radioacti	ve): No
	Recycler of hazardous waste: Transporter of hazardous waste Treater, storer or disposer of HV	
	Underground injection activity: On-site burner exemption:	No No
	Fumace exemption:	No

No

Database(s)

EDR ID Number EPA ID Number

EPTC COOLWATER (Continued	1015732611
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to bur	
Used oil Specification market	
Used oil transfer facility:	No
Used oil transporter:	No
Historical Generators:	
Date form received by agency	r: 10/20/1998
Site name:	EPTC COOLWATER
Classification:	Small Quantity Generator
. Waste code:	D001
. Waste name:	IGNITABLE WASTE
	Daaa
. Waste code: . Waste name:	D008 LEAD
. Waste name.	
. Waste code:	D018
. Waste name:	BENZENE
. Waste code:	F001
. Waste code.	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:
. Waste flame.	TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE,
	1.1.1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED
	FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING
	CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF
	ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED
	IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE
	SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
	SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
. Waste code:	F002
. Waste name:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,
	METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,
	CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE,
	ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2,
	TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE
	USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE
	ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND
	F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND
	SPENT SOLVENT MIXTURES.
. Waste code:	F003 THE FOLLOWING SPENT NONLIAL OCENIATED SOLVENTS: YVLENE, ACETONE, ETUVL
. Waste name:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL
	ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL
	ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT
	MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT
	NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS
	CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED
	SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR
	MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL
	BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT
	MIXTURES.
. Waste code:	F005
. Waste name:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL
. Waste Harrie.	KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,
	TETOTE, ON OUT DIOULIDE, TOODOTANOE, FITTUDINE, DENZENE,

EDR ID Number Database(s) EPA ID Number

## EPTC COOLWATER (Continued)

# 1015732611

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency Site name:	EPTC COOLWATER
Classification:	Large Quantity Generator
Date form received by agency	: 02/27/1996
Site name:	SOUTHERN CALIFORNIA EDISON
Classification:	Large Quantity Generator
Date form received by agency	03/29/1994
Site name:	COOL WATER GENERATOR ST.
Classification:	Large Quantity Generator
Date form received by agency	
Site name:	SO. CALIF. EDISON COOL WATER GENE
Classification:	Large Quantity Generator
Corrective Action Summers	
Corrective Action Summary: Event date:	09/30/1995
Event:	CA029
Event.	
Facility Has Received Notices of	Violations:
Regulation violated:	FR - 264.190-201.J
Area of violation:	TSD - General
Date violation determined:	09/23/1993
Date achieved compliance:	02/01/1995
Violation lead agency:	State
Enforcement action:	FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date:	02/01/1995
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	326640
Paid penalty amount:	326640
Regulation violated:	FR - 264.190-201.J
Area of violation:	TSD - General
Date violation determined:	09/23/1993
Date achieved compliance:	02/01/1995
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	09/23/1993
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 262.10-12.A

EDR ID Number Database(s) EPA ID Number

EPTC COOLWATER (Continued)	1015732611
Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount:	Generators - General 09/23/1993 02/01/1995 State WRITTEN INFORMAL 09/23/1993 Not reported Not reported State Not reported Not reported Not reported Not reported
Paid penalty amount:	Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 262.10-12.A Generators - General 09/23/1993 02/01/1995 State FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY 02/01/1995 Not reported Not reported State Not reported 326640 326640
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 262.10-12.A Generators - General 03/27/1986 01/14/1992 EPA Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 262.10-12.A Generators - General 03/26/1986 02/01/1995 State Not reported Not reported
Regulation violated: Area of violation:	FR - 262.10-12.A Generators - General

EDR ID Number Database(s) EPA ID Number

# EPTC COOLWATER (Continued)

Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	12/19/1985 12/26/1985 State WRITTEN INFORMAL 03/12/1985 Not reported Not reported State Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Propo sed penalty amount: Final penalty amount: Paid penalty amount:	FR - 262.10-12.A Generators - General 09/25/1985 10/17/1985 State WRITTEN INFORMAL 10/01/1985 Not reported Not reported State Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	FR - 262.10-12.A Generators - General 10/31/1984 11/16/1984 State WRITTEN INFORMAL 10/31/1984 Not reported Not reported State Not reported Not reported Not reported Not reported Not reported Not reported
Regulation violated: Area of violation: Date violation determined: Date achieved compliance: Violation lead agency: Enforcement action: Enforcement action date: Enf. disposition status: Enf. disp. status date: Enforcement lead agency: Proposed penalty amount: Final penalty amount: Paid penalty amount:	F - 262.10-12.A Generators - General 06/29/1984 10/04/1985 State Not reported Not reported

Evaluation Action Summary:

Evaluation date: Evaluation: 09/23/1993 COMPLIANCE EVALUATION INSPECTION ON-SITE

Database(s)

EDR ID Number EPA ID Number

# EPTC COOLWATER (Continued)

Area of violation:	TSD - General
Date achieved compliance:	02/01/1995
Evaluation lead agency:	State
Evaluation date:	09/23/1993
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	02/01/1995
Evaluation lead agency:	State
Evaluation date:	01/14/1992
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	03/27/1986
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	Generators - General
Date achieved compliance:	01/14/1992
Evaluation lead agency:	EPA
Evaluation date:	03/26/1986
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	Generators - General
Date achieved compliance:	02/01/1995
Evaluation lead agency:	State
Evaluation date:	12/19/1985
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	Generators - General
Date achieved compliance:	12/26/1985
Evaluation lead agency:	State
Evaluation date:	09/25/1985
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	09/25/1985
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	10/17/1985
Evaluation lead agency:	State
Evaluation date:	07/12/1985
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA
Evaluation date:	04/17/1985
Evaluation:	GROUNDWATER MONITORING EVALUATION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

Database(s) EPA II

EDR ID Number EPA ID Number

# EPTC COOLWATER (Continued)

1015732611

TC COOLWATER (Continued	1)	
Evaluation date:	10/31/1984	
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE	
Area of violation:	Generators - General	
	11/16/1984	
Date achieved compliance:	-	
Evaluation lead agency:	State	
Evaluation date:	10/31/1984	
Evaluation:	NON-FINANCIAL RECORD REVIEW	
Area of violation:	Not reported	
Date achieved compliance:	Not reported	
Evaluation lead agency:	State	
Evaluation date:	06/29/1984	
Evaluation:	GROUNDWATER MONITORING EVALUATION	
Area of violation:	Generators - General	
Date achieved compliance:	10/04/1985	
Evaluation lead agency:	State	
CERC-NFRAP:		
Site ID:	0900943	
Federal Facility:	Not a Federal Facility	
NPL Status:	Not on the NPL	
Non NPL Status:		
NUT NEL SIAIUS.	NFRAP-Site does not qualify for the NPL based on existing information	
CERCLIS-NFRAP Site Contact	Details:	
Contact Sequence ID:	13289146.00000	
Person ID:	13003854.00000	
Contact Sequence ID:	13294741.00000	
Person ID:	13003858.00000	
Contact Sequence ID:	13300599.00000	
Person ID:	130040 03.000 00	
CERCLIS-NFRAP Assessment	History:	
Action:	DISCOVERY	
Date Started:	//	
Date Completed:	08/01/80	
Priority Level:	Not reported	
-		
Action:	PRELIMINARY ASSESSMENT	
Date Started:	03/01/85	
Date Completed:	08/01/85	
Priority Level:	Low priority for further assessment	
Action:	ARCHIVE SITE	
Date Started:		
Date Completed:	09/01/88	
•		
Priority Level:	Not reported	
Action:	PRELIMINARY ASSESSMENT	
Date Started:	//	
Date Completed:	09/01/88	
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information	

CORRACTS:

Database(s)

EDR ID Number EPA ID Number

	EPTC COOLWATER (Conti	nued)	1015732611
	EPA ID: EPA Region: Area Name: Actual Date: Action: NAICS Code(s): Original schedule date: Schedule end date:	CAD000630905 09 ENTIRE FACILITY 19950930 CA029 Not reported Not reported Not reported	
C48 SW 1/4-1/2 0.429 mi.	COOLWATER GENERATING 37000 E SANTA FE ST DAGGETT CA, CA 92327	G STATION CA WMUDS/SWAT	S103866748 N/A
2267 ft.	Site 2 of 2 in cluster C		
Re lative:	WMUDS/SWAT:		
Higher	Edit Date:	Not reported Category B - Any facility baying a physical, chemical, or biological	
Actual: 1984 ft.	Complexity: Primary Waste: Primary Waste Type:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marin as with petroleum products, solid wastes, and sewage pump out facilities. NONCON Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.	
	Secondary Waste:	Not reported	
	Secondary Waste Type	Not reported	
	Base Meridian:	Not reported	
	NPID: Tonnage:	Not reported 0	
	Regional Board ID:	Not reported	
	Municipal Solid Waste:	False False	
	Superorder: Open To Public:	False	
	Waste List:	False	
	Agency Type:	Private	
	Agency Name: Agency Department:	RELIANT ENERGY COOLWATER,LLC Not reported	
	Agency Address:	37000 SANTA FE ST	
	Agency City,St,Zip:	DAGGETT CA 92327	
	Agency Contact: Agency Telephone:	W.R. DUSENBURY 7602545241	
	Land Owner Name:	Not reported	
	Land Owner Address:	Not reported	
	Land Owner City,St,Zip: Land Owner Contact:	Not reported Not reported	
	Land Owner Phone:	Not reported	
	Region:	6V	
	Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or	
		processing operation of whatever nature, including mining, gravel	
		washing, geothermal operations, air conditioning, ship building and	
		repairing, oil production, storage and disposal operations, water pumping.	

Site

Database(s)

EDR ID Number EPA ID Number

S103866748

# COOLWATER GENERATING STATION (Continued)

Facility Description: Facility Telephone: SWAT Facility Name:	Not reported Not reported Not reported	
Primary SIC:	4961	
Secondary SIC:	Not reported	
Comments:	Not reported	
Last Facility Editors:	Not reported	
Waste Discharge System:	•	
Solid Waste Assessment	Test Program:	False
Toxic Pits Cleanup Act Pr	ogram:	False
Resource Conservation R	ecovery Act:	False
Department of Defence:		False
Solid Waste Assessment	Test Program:	Not reported
Threat to Water Quality:		Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to to xic substances.
Sub Chapter 15:		True
Regional Board Project O		JJK
Number of WMUDS at Fa	cility:	1
Section Range:		Not reported
RCRA Facility:		Yes
Waste Discharge Require		A
Self-Monitoring Rept. Free		Semiannual Submittal
Waste Discharge System Solid Waste Information II		6B362036002 Not reported
	υ.	Not reported

Count: 1 records.

ORPHAN SUMMARY

Zip Database(s)

92327 CA BOND EXP. PLAN

City DAGGET Site Name

EDR ID

BARSTOW/DAGGET AIRPORT

TC4377373.2s Page 148

Site Address

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

### STANDARD ENVIRONMENTAL RECORDS

#### Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/26/2015 Date Data Arrived at EDR: 04/08/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 75 Source: EPA Telephone: N/A Last EDR Contact: 07/09/2015 Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143

EPA Region 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665

## Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

EPA Region 6

EPA Region 7

**EPA Region 8** 

EPA Region 9

Telephone: 214-655-6659

Telephone: 913-551-7247

Telephone: 303-312-6774

Telephone: 415-947-4246

Date of Government Version: 03/26/2015 Date Data Arrived at EDR: 04/08/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 75

Source: EPA Telephone: N/A Last EDR Contact: 07/09/2015 Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Quarterly

## NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994 Number of Days to Update: 56 Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/15/2011 Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

#### Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/26/2015 Date Data Arrived at EDR: 04/08/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 75 Source: EPA Telephone: N/A Last EDR Contact: 07/09/2015 Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Quarterly

### Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014 Number of Days to Update: 94 Source: EPA Telephone: 703-412-9810 Last EDR Contact: 05/29/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

### FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015 Date Data Arrived at EDR: 04/08/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 64 Source: Environmental Protection Agency Telephone: 703-603-8704 Last EDR Contact: 07/10/2015 Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Varies

## Federal CERCLIS NFRAP site List

#### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 11/11/2013 Date Made Active in Reports: 02/13/2014 Number of Days to Update: 94 Source: EPA Telephone: 703-412-9810 Last EDR Contact: 05/29/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

#### Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 72 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Quarterly

# Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 72 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Quarterly

## Federal RCRA generators list

# RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 72 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Quarterly

# RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 72 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Quarterly

## RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 72 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Varies

#### Federal institutional controls / engineering controls registries

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/17/2015	Telephone: 703-603-0695
Date Made Active in Reports: 06/02/2015	Last EDR Contact: 06/01/2015
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2015 Date Data Arrived at EDR: 03/17/2015 Date Made Active in Reports: 06/02/2015 Number of Days to Update: 77 Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 06/01/2015 Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

## LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 13 Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/18/2015 Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Varies

### Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/02/2015 Number of Days to Update: 63 Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Annually

## State- and tribal - equivalent NPL

RESPONSE: State Response Sites Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 05/04/2015	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/05/2015	Telephone: 916-323-3400
Date Made Active in Reports: 05/14/2015	Last EDR Contact: 08/04/2015
Number of Days to Update: 9	Next Scheduled EDR Contact: 11/16/2015
	Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

#### ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 05/04/2015 Date Data Arrived at EDR: 05/05/2015 Date Made Active in Reports: 05/14/2015 Number of Days to Update: 9 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 08/04/2015 Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Quarterly

# State and tribal landfill and/or solid waste disposal site lists

## SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/18/2015 Date Data Arrived at EDR: 05/20/2015 Date Made Active in Reports: 06/05/2015 Number of Days to Update: 16 Source: Department of Resources Recycling and Recovery Telephone: 916-341-6320 Last EDR Contact: 05/20/2015 Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Quarterly

### State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001 Date Data Arrived at EDR: 04/23/2001 Date Made Active in Reports: 05/21/2001 Number of Days to Update: 28 Source: California Regional Water Quality Control Board San Diego Region (9) Telephone: 858-637-5595 Last EDR Contact: 09/26/2011 Next Scheduled EDR Contact: 01/09/2012 Data Release Frequency: No Up date Planned

## LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

# LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6
Date Data Arrived at EDR: 06/07/2005 Date Data Arrived at EDR: 06/07/2005 Date Made Active in Reports: 06/29/2005 Number of Days to Update: 22	Telephone: 760-241-7365 Last EDR Contact: 09/12/2011 Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned
UST REG 6L: Leaking Underground Storage Tar For more current information, please refer to	nk Case Listing the State Water Resources Control Board's LUST database.
Date of Government Version: 09/09/2003 Date Data Arrived at EDR: 09/10/2003 Date Made Active in Reports: 10/07/2003 Number of Days to Update: 27	Source: California Regional Water Quality Control Board Lahontan Region (6) Telephone: 530-542-5572 Last EDR Contact: 09/12/2011 Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned
Dorado, Fresno, Glenn, Kem, Kings, Lake, L	k Database s. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El assen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.
Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 07/22/2008 Date Made Active in Reports: 07/31/2008 Number of Days to Update: 9	Source: California Regional Water Quality Control Board Central Valley Region (5) Telephone: 916-464-4834 Last EDR Contact: 07/01/2011 Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: No Update Planned
UST REG 4: Underground Storage Tank Leak Li Los Angeles, Ventura counties. For more cur Board's LUST database.	st rent information, please refer to the State Water Resources Control
Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004 Number of Days to Update: 35	Source: California Regional Water Quality Control Board Los Angeles Region (4) Telephone: 213-576-6710 Last EDR Contact: 09/06/2011 Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned
UST REG 3: Leaking Underground Storage Tanl Leaking Underground Storage Tank location:	k Database s. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.
Date of Government Version: 05/19/2003 Date Data Arrived at EDR: 05/19/2003 Date Made Active in Reports: 06/02/2003 Number of Days to Update: 14	Source: California Regional Water Quality Control Board Central Coast Region (3) Telephone: 805-542-4786 Last EDR Contact: 07/18/2011 Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: No Update Planned
UST REG 2: Fuel Leak List Leaking Underground Storage Tank location: Clara, Solano, Sonoma counties.	s. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa
Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004 Number of Days to Update: 30	Source: California Regional Water Quality Control Board San Francisco Bay Region Telephone: 510-622-2433 Last EDR Contact: 09/19/2011 Next Scheduled EDR Contact: 01/02/2012

please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001 Date Data Arrived at EDR: 02/28/2001 Date Made Active in Reports: 03/29/2001	Source: California Regional Water Quality Control Board North Coast (1) Telephone: 707-570-3769 Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned
storage tank incidents. Not all states maintain	nk Report Reports. LUST records contain an inventory of reported leaking underground these records, and the information stored varies by state. For rground storage tank sites, please contact the appropriate regulatory
Date of Government Version: 06/15/2015 Date Data Arrived at EDR: 06/17/2015 Date Made Active in Reports: 07/14/2015 Number of Days to Update: 27	Source: State Water Resources Control Board Telephone: see region list Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Quarterly
SLIC: Statewide SLIC Cases The SLIC (Spills, Leaks, Investigations and Cl from spills, leaks, and similar discharges.	eanup) program is designed to protect and restore water quality
Date of Government Version: 06/15/2015 Date Data Arrived at EDR: 06/17/2015 Date Made Active in Reports: 07/14/2015 Number of Days to Update: 27	Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Varies
SLIC REG 1: Active Toxic Site Investigations The SLIC (Spills, Leaks, Investigations and Cl from spills, leaks, and similar discharges.	eanup) program is designed to protect and restore water quality
Date of Government Version: 04/03/2003 Date Data Arrived at EDR: 04/07/2003 Date Made Active in Reports: 04/25/2003 Number of Days to Update: 18	Source: California Regional Water Quality Control Board, North Coast Region (1) Telephone: 707-576-2220 Last EDR Contact: 08/01/2011 Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned
SLIC REG 2: Spills, Leaks, Investigation & Cleanup The SLIC (Spills, Leaks, Investigations and Cl from spills, leaks, and similar discharges.	o Cost Recovery Listing eanup) program is designed to protect and restore water quality
Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004 Number of Days to Update: 30	Source: Regional Water Quality Control Board San Francisco Bay Region (2) Telephone: 510-286-0457 Last EDR Contact: 09/19/2011 Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: Quarterly
SLIC REG 3: Spills, Leaks, Investigation & Cleanup The SLIC (Spills, Leaks, Investigations and Cl from spills, leaks, and similar discharges.	o Cost Recovery Listing eanup) program is designed to protect and restore water quality
Date of Government Version: 05/18/2006 Date Data Arrived at EDR: 05/18/2006 Date Made Active in Reports: 06/15/2006 Number of Days to Update: 28	Source: California Regional Water Quality Control Board Central Coast Region (3) Telephone: 805-549-3147 Last EDR Contact: 07/18/2011 Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: Semi-Annually
SLIC REG 4: Spills, Leaks, Investigation & Cleanup The SLIC (Spills, Leaks, Investigations and Cl from spills, leaks, and similar discharges.	o Cost Recovery Listing eanup) program is designed to protect and restore water quality

Date of Government Version: 11/17/2004 Date Data Arrived at EDR: 11/18/2004 Date Made Active in Reports: 01/04/2005 Number of Days to Update: 47	Source: Region Water Quality Control Board Los Angeles Region (4) Telephone: 213-576-6600 Last EDR Contact: 07/01/2011 Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: Varies
SLIC REG 5: Spills, Leaks, Investigation & Cleanu The SLIC (Spills, Leaks, Investigations and C from spills, leaks, and similar discharges.	p Cost Recovery Listing leanup) program is designed to protect and restore water quality
Date of Government Version: 04/01/2005 Date Data Arrived at EDR: 04/05/2005 Date Made Active in Reports: 04/21/2005 Number of Days to Update: 16	Source: Regional Water Quality Control Board Central Valley Region (5) Telephone: 916-464-3291 Last EDR Contact: 09/12/2011 Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: Semi-Annually
SLIC REG 6V: Spills, Leaks, Investigation & Clean The SLIC (Spills, Leaks, Investigations and Cl from spills, leaks, and similar discharges.	up Cost Recovery Listing leanup) program is designed to protect and restore water quality
Date of Government Version: 05/24/2005 Date Data Arrived at EDR: 05/25/2005 Date Made Active in Reports: 06/16/2005 Number of Days to Update: 22	Source: Regional Water Quality Control Board, Victorville Branch Telephone: 619-241-6583 Last EDR Contact: 08/15/2011 Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: Semi-Annually
SLIC REG 6L: SLIC Sites The SLIC (Spills, Leaks, Investigations and C from spills, leaks, and similar discharges.	leanup) program is designed to protect and restore water quality
Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004 Number of Days to Update: 35	Source: California Regional Water Quality Control Board, Lahontan Region Telephone: 530-542-5574 Last EDR Contact: 08/15/2011 Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned
SLIC REG 7: SLIC List The SLIC (Spills, Leaks, Investigations and C from spills, leaks, and similar discharges.	leanup) program is designed to protect and restore water quality
Date of Government Version: 11/24/2004 Date Data Arrived at EDR: 11/29/2004 Date Made Active in Reports: 01/04/2005 Number of Days to Update: 36	Source: California Regional Quality Control Board, Colorado River Basin Region Telephone: 760-346-7491 Last EDR Contact: 08/01/2011 Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned
SLIC REG 8: Spills, Leaks, Investigation & Cleanu The SLIC (Spills, Leaks, Investigations and C from spills, leaks, and similar discharges.	p Cost Recovery Listing leanup) program is designed to protect and restore water quality
Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/03/2008 Date Made Active in Reports: 04/14/2008 Number of Days to Update: 11	Source: California Region Water Quality Control Board Santa Ana Region (8) Telephone: 951-782-3298 Last EDR Contact: 09/12/2011 Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: Semi-Annually
SLIC REG 9: Spills, Leaks, Investigation & Cleanu	p Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007 Date Data Arrived at EDR: 09/11/2007 Date Made Active in Reports: 09/28/2007 Number of Days to Update: 17	Source: California Regional Water Quality Control Board San Diego Region (9) Telephone: 858-467-2980 Last EDR Contact: 08/08/2011 Next Scheduled EDR Contact: 11/21/2011 Data Release Frequency: Annually	
INDIAN LUST R8: Leaking Underground Storage T LUSTs on Indian land in Colorado, Montana, I	anks on Indian Land North Dakota, South Dakota, Utah and Wyoming.	
Date of Government Version: 04/30/2015 Date Data Arrived at EDR: 05/05/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 48	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly	
INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska		
Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 04/28/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 55	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies	
INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.		
Date of Government Version: 03/17/2015 Date Data Arrived at EDR: 05/01/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 52	Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies	
INDIAN LUST R4:Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.		
Date of Government Version: 09/30/2014 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/13/2015 Number of Days to Update: 10	Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Semi-Annually	
INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.		
Date of Government Version: 02/03/2015 Date Data Arrived at EDR: 04/30/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 53	Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/31/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies	
INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada		
Date of Government Version: 01/08/2015 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 02/09/2015 Number of Days to Update: 32	Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 07/31/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly	

INDIAN LUST R5: Leaking Underground Storage T Leaking underground storage tanks located o	Tanks on Indian Land n Indian Land in Michigan, Minnesota and Wisconsin.	
Date of Government Version: 04/30/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 24	Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies	
INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.		
Date of Government Version: 02/03/2015 Date Data Arrived at EDR: 02/12/2015 Date Made Active in Reports: 03/13/2015 Number of Days to Update: 29	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly	
State and tribal registered storage tank lists		
UST: Active UST Facilities Active UST facilities gathered from the local re	egulatory agencies	
Date of Government Version: 06/15/2015 Date Data Arrived at EDR: 06/17/2015 Date Made Active in Reports: 07/06/2015 Number of Days to Update: 19	Source: SWRCB Telephone: 916-341-5851 Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Semi-Annually	
AST: Aboveground Petroleum Storage Tank Facilities A listing of aboveground storage tank petroleum storage tank locations.		
Date of Government Version: 08/01/2009 Date Data Arrived at EDR: 09/10/2009 Date Made Active in Reports: 10/01/2009 Number of Days to Update: 21	Source: California Environmental Protection Agency Telephone: 916-327-5092 Last EDR Contact: 07/13/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Quarterly	
INDIAN UST R1: Underground Storage Tanks on Indian Land The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).		
Date of Government Version: 02/03/2015 Date Data Arrived at EDR: 04/30/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 53	Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/31/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies	
	ndian Land database provides information about underground storage tanks on Indian	

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on India land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/30/2014 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/13/2015 Number of Days to Update: 10 Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on The Indian Underground Storage Tank (UST land in EPA Region 5 (Michigan, Minnesota a	) database provides information about underground storage tanks on Indian
Date of Government Version: 04/30/2015 Date Data Arrived at EDR: 05/26/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 27	Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies
	Indian Land ) database provides information about underground storage tanks on Indian Oklahoma, New Mexico, Texas and 65 Tribes).
Date of Government Version: 03/17/2015 Date Data Arrived at EDR: 05/01/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 52	Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Semi-Annually
INDIAN UST R7: Underground Storage Tanks on The Indian Underground Storage Tank (UST land in EPA Region 7 (Iowa, Kansas, Missou	) database provides information about underground storage tanks on Indian
Date of Government Version: 09/23/2014 Date Data Arrived at EDR: 11/25/2014 Date Made Active in Reports: 01/29/2015 Number of Days to Update: 65	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies
	Indian Land ) database provides information about underground storage tanks on Indian orth Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).
Date of Government Version: 04/30/2015 Date Data Arrived at EDR: 05/05/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 48	Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly
	Indian Land ) database provides information about underground storage tanks on Indian awaii, Nevada, the Pacific Islands, and Tribal Nations).
Date of Government Version: 12/14/2014 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/13/2015 Number of Days to Update: 28	Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 07/31/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly
INDIAN UST R10: Underground Storage Tanks or The Indian Underground Storage Tank (UST land in EPA Region 10 (Alaska, Idaho, Orego	) database provides information about underground storage tanks on Indian
Date of Government Version: 05/06/2015 Date Data Arrived at EDR: 05/19/2015	Source: EPA Region 10 Telephone: 206-553-2857

Date of Government Version: 05/06/2015	Source: EPA Region 10
Date Data Arrived at EDR: 05/19/2015	Telephone: 206-553-2857
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

### FEMA UST: Underground Storage Tank Listing A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/10/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009 Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 05/04/2015 Date Data Arrived at EDR: 05/05/2015 Date Made Active in Reports: 05/14/2015 Number of Days to Update: 9

Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 08/04/2015 Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Quarterly

## ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/23/2015 Date Data Arrived at EDR: 03/24/2015 Date Made Active in Reports: 06/02/2015 Number of Days to Update: 70

Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 06/24/2015 Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located County and northern Imperial County, California.		orres Martinez Indian Reservation located in eastern Riverside
	Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009 Number of Days to Update: 137	Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: No Update Planned
	ODI: Open Dump Inventory An open dump is defined as a disposal facility Subtitle D Criteria.	that does not comply with one or more of the Part 257 or Part 258
	Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004 Number of Days to Update: 39	Source: Environmental Protection Agency Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned
	SWRCY: Recycler Database A listing of recycling facilities in California.	
	Date of Government Version: 06/15/2015 Date Data Arrived at EDR: 06/17/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 47	Source: Department of Conservation Telephone: 916-323-3836 Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Quarterly
	HAULERS: Registered Waste Tire Haulers Listing A listing of registered waste tire haulers.	
	Date of Government Version: 05/26/2015 Date Data Arrived at EDR: 05/28/2015 Date Made Active in Reports: 06/05/2015 Number of Days to Update: 8	Source: Integrated Waste Management Board Telephone: 916-341-6422 Last EDR Contact: 05/18/2015 Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Varies
	INDIAN ODI: Report on the Status of Open Dumps	on Indian Lands

Location of open dumps on Indian land.

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007	Source: Environmental Protection Agency Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 05/01/2015
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/17/2015
	Data Release Frequency: Varies

## WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000 Date Data Arrived at EDR: 04/10/2000 Date Made Active in Reports: 05/10/2000 Number of Days to Update: 30

Source: State Water Resources Control Board Telephone: 916-227-4448 Last EDR Contact: 08/04/2015 Next Scheduled EDR Contact: 11/23/2015 Data Release Frequency: No Update Planned

#### Local Lists of Hazardous waste / Contaminated Sites

#### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015	Source: Dru
Date Data Arrived at EDR: 03/10/2015	Telephone:
Date Made Active in Reports: 03/25/2015	Last EDR C
Number of Days to Update: 15	Next Sched

ug Enforcement Administration 202-307-1000 Contact: 05/29/2015 uled EDR Contact: 09/14/2015 Data Release Frequency: Quarterly

#### HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005 Date Data Arrived at EDR: 08/03/2006 Date Made Active in Reports: 08/24/2006 Number of Days to Update: 21

Source: Department of Toxic Substance Control Telephone: 916-323-3400 Last EDR Contact: 02/23/2009 Next Scheduled EDR Contact: 05/25/2009 Data Release Frequency: No Update Planned

## SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 05/04/2015 Date Data Arrived at EDR: 05/05/2015 Date Made Active in Reports: 05/14/2015 Number of Days to Update: 9

Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 08/04/2015 Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Quarterly

#### TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: No Update Planned

#### CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 03/10/2015 Date Made Active in Reports: 03/18/2015 Number of Days to Update: 8

Source: Department of Toxic Substances Control Telephone: 916-255-6504 Last EDR Contact: 08/07/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Varies

#### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/10/2015	Telephone: 202-307-1000
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 05/29/2015
Number of Days to Update: 15	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: No Update Planned

#### Local Lists of Registered Storage Tanks

#### CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

# UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health Telephone: 707-463-4466 Last EDR Contact: 06/01/2015 Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Annually

#### HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990 Date Data Arrived at EDR: 01/25/1991 Date Made Active in Reports: 02/12/1991 Number of Days to Update: 18 Source: State Water Resources Control Board Telephone: 916-341-5851 Last EDR Contact: 07/26/2001 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

#### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014 Date Data Arrived at EDR: 03/18/2014 Date Made Active in Reports: 04/24/2014 Number of Days to Update: 37

Source: Environmental Protection Agency Telephone: 202-564-6023 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 06/11/2015	Source: Department
Date Data Arrived at EDR: 06/16/2015	Telephone: 916-323
Date Made Active in Reports: 07/14/2015	Last EDR Contact: 06
Number of Days to Update: 28	Next Scheduled EDR
	Data Dalagaa Eragua

of Toxic Substances Control -3400 6/05/2015 R Contact: 09/21/2015 Data Release Frequency: Varies

# DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/08/2015 Date Data Arrived at EDR: 06/09/2015 Date Made Active in Reports: 07/14/2015 Number of Days to Update: 35

Source: DTSC and SWRCB Telephone: 916-323-3400 Last EDR Contact: 06/09/2015 Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Semi-Annually

### Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 72

Source: U.S. Department of Transportation Telephone: 202-366-4555 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/15/2015 Date Data Arrived at EDR: 07/28/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 6

Source: Office of Emergency Services Telephone: 916-845-8400 Last EDR Contact: 07/28/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

# LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 06/15/2015 Date Data Arrived at EDR: 06/17/2015 Date Made Active in Reports: 07/14/2015 Number of Days to Update: 27

Source: State Water Qualilty Control Board Telephone: 866-480-1028 Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Quarterly

### MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 06/15/2015 Date Data Arrived at EDR: 06/17/2015 Date Made Active in Reports: 07/14/2015 Number of Days to Update: 27 Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Quarterly

#### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/22/2013 Number of Days to Update: 50 Source: FirstSearch Telephone: N/A Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

### Other Ascertainable Records

# RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 03/31/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 72 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012 Number of Days to Update: 42 Source: Department of Transporation, Office of Pipeline Safety Telephone: 202-366-4595 Last EDR Contact: 08/04/2015 Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Varies

# DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS Telephone: 888-275-8747 Last EDR Contact: 07/14/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Semi-Annually

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014		
Date Data Arrived at EDR: 09/10/2014		
Date Made Active in Reports: 09/18/2014		
Number of Days to Update: 8		

Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 07/08/2015 Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 04/17/2015	Telephone: Varies
Date Made Active in Reports: 06/02/2015	Last EDR Contact: 06/22/2015
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 06/12/2015
Number of Days to Update: 74	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Annually

# UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 05/26/2015
Number of Days to Update: 146	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Varies

### US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 12/31/2014	Telephone: 303-231-5959
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 06/03/2015
Number of Days to Update: 29	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Semi-Annually

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013	Source: EPA
Date Data Arrived at EDR: 02/12/2015	Telephone: 202
Date Made Active in Reports: 06/02/2015	Last EDR Conta
Number of Days to Update: 110	Next Scheduled

2-566-0250 tact: 01/29/2015 d EDR Contact: 06/08/2015 Data Release Frequency: Annually

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 01/15/2015 Date Made Active in Reports: 01/29/2015 Number of Days to Update: 14 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 06/25/2015 Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/20/2015
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/20/2015
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2007 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2008 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

# SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011 Number of Days to Update: 77 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015 Date Data Arrived at EDR: 02/06/2015 Date Made Active in Reports: 03/09/2015 Number of Days to Update: 31 Source: Environmental Protection Agency Telephone: 202-564-5088 Last EDR Contact: 07/09/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Quarterly

# PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014	Source: EPA
Date Data Arrived at EDR: 10/15/2014	Telephone: 202-566-0500
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 07/17/2015
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Annually

# MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/31/2015 Date Data Arrived at EDR: 04/09/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 63 Source: Nuclear Regulatory Commission Telephone: 301-415-7169 Last EDR Contact: 06/04/2015 Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

# RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/07/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 63	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

# FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015 Date Data Arrived at EDR: 02/27/2015 Date Made Active in Reports: 03/25/2015 Number of Days to Update: 26 Source: EPA Telephone: (415) 947-8000 Last EDR Contact: 06/10/2015 Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Quarterly

# RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Up date Planned

# RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/25/2015 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-8600 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

# BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 02/26/2013 Date Made Active in Reports: 04/19/2013 Number of Days to Update: 52 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 05/29/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Biennially

# CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989 Date Data Arrived at EDR: 07/27/1994 Date Made Active in Reports: 08/02/1994 Number of Days to Update: 6 Source: Department of Health Services Telephone: 916-255-2118 Last EDR Contact: 05/31/1994 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

### NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/18/2015Source: State Water Resources Control BoardDate Data Arrived at EDR: 05/20/2015Telephone: 916-445-9379Date Made Active in Reports: 06/11/2015Last EDR Contact: 05/20/2015Number of Days to Update: 22Next Scheduled EDR Contact: 08/31/2015Data Release Frequency: Quarterly

UIC: UIC Listing         A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.         Date of Government Version: 11/19/2014       Source: Deaptiment of Conservation         Date Made Active in Reports: 01/29/2015       Last EDR Contact: 06/19/2015         Number of Days to Update: 45       Next Scheduled EDR Contact: 06/19/2015         Date Made Active in Reports: 01/29/2015       Last EDR Contact: 06/19/2015         Date of Government Version: 06/24/2015       Source: CAL EPA/Ofice of Emergency Information         Date of Government Version: 06/24/2015       Source: CAL EPA/Ofice of Emergency Information         Date of Government Version: 06/24/2015       Source: CAL EPA/Ofice of Emergency Information         Date of Government Version: 06/24/2015       Last EDR Contact: 06/26/2015         Number of Days to Update: 18       Next Scheduled EDR Contact: 10/12/2015         Date for Overnment Version: 04/01/2001       Source: Department of Toxic Substances Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control Contact: 01/22/2015         Date of Government Version: 04/01/2001       Source: Department of Toxic Substances Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control Contact: 01/22/2019         Date of Government Version: 04/01/2001       Source: Department of Toxic Substances Control Date Date Arrived at EDR: 01/22/2009         Number of Days to Update: 76<			
Date Data Arrived at EDR: 12/15/2014       Telephone: 916-445-2408         Date Made Active in Reports: 01/29/2015       Last EDR Contact: 06/19/2015         Number of Days to Update: 45       Next Scheduled EDR Contact: 09/28/2015         Date Made Active in Reports: 01/29/2015       Next Scheduled EDR Contact: 09/28/2015         Date Made Active in Reports: 07/16/2015       Next Scheduled EDR Contact: 09/28/2015         Date of Government Version: 06/24/2015       Source: CAL EPA/Office of Emergency Information         Date Made Active in Reports: 07/14/2015       Source: CAL EPA/Office of Emergency Information         Date Made Active in Reports: 07/14/2015       Source: CAL EPA/Office of Emergency Information         Date Made Active in Reports: 07/14/2015       Next Scheduled EDR Contact: 10/12/2015         Date Made Active in Reports: 07/14/2015       Next Scheduled EDR Contact: 10/12/2015         Date Made Active in Reports: 07/14/2015       Date EDR Contact: 10/12/2015         Date Made Active in Reports: 01/01/2001       Source: Department of Toxic Substances Control         Date Made Active in Reports: 04/08/2009       Least EDR Contact: 01/22/2009         Date Made Active in Reports: 04/08/2009       Least EDR Contact: 01/22/2009         Date Made Active in Reports: 04/08/2009       Least EDR Contact: 01/22/2009         Number of Days to Update: 76       Next Scheduled EDR Contact: 01/22/2009         Number of Cavernment	÷		
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).         Date of Government Version: 06/24/2015       Source: CAL EPA/Office of Emergency Information         Date Data Arrived at EDR: 06/26/2015       Telephone: 916-323-3400         Date Made Active in Reports: 07/14/2015       Last EDR Contact: 06/26/2015         Number of Days to Update: 18       Next Scheduled EDR Contact: 10/12/2015         Date for Government Version: 04/01/2001       Source: Cal-EPA/Office of Energency Information         (SWF/LS), and the Department of Toxic Substances Schuld EDR Contact: 10/12/2015       Date of Government Version: 04/01/2001         Date of Government Version: 04/01/2001       Source: Department of Toxic Substances Control         Date of Government Version: 04/01/2001       Source: Department of Toxic Substances Control         Date of Government Version: 04/01/2009       Last EDR Contact: 01/22/2009         Date Made Active in Reports: 04/08/2009       Last EDR Contact: 01/22/2009         NotTIFY 65: Proposition 65 Records       Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.         Date of Government Version: 10/21/1993       Source: State Water Resources Control Board         Date Data Arrived at EDR: 11/01/1993       Last EDR Contact: 06/17/20	Date Data Arrived at EDR: 12/15/2014 Date Made Active in Reports: 01/29/2015	Telephone: 916-445-2408 Last EDR Contact: 06/19/2015 Next Scheduled EDR Contact: 09/28/2015	
Date Data Arrived at EDR: 06/26/2015       Telephone: 916-323-3400         Date Made Active in Reports: 07/14/2015       Last EDR Contact: 06/26/2015         Number of Days to Update: 18       Next Scheduled EDR Contact: 01/21/2015         Date of Government Version: 04/01/2001       Source: Department of Toxic Substances Control ICALSITES]. This listing is no longer updated by the state agency.         Date Of Government Version: 04/01/2001       Source: Department of Toxic Substances Control Toxic Substances Control Date Data Arrived at EDR: 01/22/2009         Telephone: 916-323-3400       Date Made Active in Reports: 04/08/2009         Last EDR Contact: 01/22/2009       Telephone: 916-323-3400         Date Data Arrived at EDR: 01/22/2009       Last EDR Contact: 01/22/2009         Number of Days to Update: 76       Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned         NOTIFY 65: Proposition 65 Records       Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.         Date of Government Version: 10/21/1993       Source: State Water Resources Control Board         Date Nade Active in Reports: 11/01/1993       Source: State Water Resources Control Board         Date Made Active in Reports: 11/01/1993       Source: State Water Resources Control Board         Date Made Active in Reports: 18       Next Scheduled EDR Contact: 10/05/2015 </td <td>The sites for the list are designated by the Stat</td> <td>e Water Resource Control Board (LUST), the Integrated Waste</td>	The sites for the list are designated by the Stat	e Water Resource Control Board (LUST), the Integrated Waste	
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.         Date of Government Version: 04/01/2001       Source: Department of Toxic Substances Control Date Data Arrived at EDR: 01/22/2009         Date Made Active in Reports: 04/08/2009       Last EDR Contact: 01/22/2009         Number of Days to Update: 76       Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned         NOTIFY 65: Proposition 65 Records       Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.         Date of Government Version: 10/21/1993       Source: State Water Resources Control Board         Date Made Active in Reports: 11/19/1993       Source: State Water Resources Control Board         Date Data Arrived at EDR: 11/01/1993       Last EDR Contact: 00/61/2015         Number of Days to Update: 18       Next Scheduled EDR Contact: 10/05/2015         Data Release Frequency: No Update Planned       DRYCLEANERS: Cleaner Facilities         A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.	Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 07/14/2015	Telephone: 916-323-3400 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/12/2015	
Date Data Arrived at EDR: 01/22/2009 Date Made Active in Reports: 04/08/2009 Number of Days to Update: 76Telephone: 916-323-3400 Last EDR Contact: 01/22/2009 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update PlannedNOTIFY 65: Proposition 65 Records Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.Date of Government Version: 10/21/1993 Date Data Arrived at EDR: 11/01/1993 Number of Days to Update: 18Source: State Water Resources Control Board Source: State Water Resources Control Board Date Data Arrived at EDR: 11/01/1993 Last EDR Contact: 06/17/2015 Data Release Frequency: No Update PlannedDRYCLEANERS: Cleaner Facilities A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundy and garment services.Date of Government Version: 02/18/2015 Date Data Arrived at EDR: 02/20/2015 	The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the		
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency. Date of Government Version: 10/21/1993 Source: State Water Resources Control Board Date Data Arrived at EDR: 11/01/1993 Telephone: 916-445-3846 Date Made Active in Reports: 11/19/1993 Last EDR Contact: 06/17/2015 Number of Days to Update: 18 Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: No Update Planned DRYCLEANERS: Cleaner Facilities A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services. Date of Government Version: 02/18/2015 Source: Department of Toxic Substance Control Telephone: 916-327-4498 Last EDR Contact: 07/31/2015	Date Data Arrived at EDR: 01/22/2009 Date Made Active in Reports: 04/08/2009	Telephone: 916-323-3400 Last EDR Contact: 01/22/2009 Next Scheduled EDR Contact: N/A	
Date Data Arrived at EDR: 11/01/1993 Date Made Active in Reports: 11/19/1993 Number of Days to Update: 18Telephone: 916-445-3846 Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: No Up date PlannedDRYCLEANERS: Cleaner Facilities A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.Date of Government Version: 02/18/2015 Date Data Arrived at EDR: 02/20/2015 Date Made Active in Reports: 03/12/2015Source: Department of Toxic Substance Control Telephone: 916-327-4498 Last EDR Contact: 07/31/2015	Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the		
<ul> <li>A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.</li> <li>Date of Government Version: 02/18/2015 Source: Department of Toxic Substance Control Telephone: 916-327-4498 Last EDR Contact: 07/31/2015</li> </ul>	Date Data Arrived at EDR: 11/01/1993 Date Made Active in Reports: 11/19/1993	Telephone: 916-445-3846 Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 10/05/2015	
Date Data Arrived at EDR: 02/20/2015Telephone: 916-327-4498Date Made Active in Reports: 03/12/2015Last EDR Contact: 07/31/2015	A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and		
Data Release Frequency: Annually	Date Data Arrived at EDR: 02/20/2015 Date Made Active in Reports: 03/12/2015	Telephone: 916-327-4498 Last EDR Contact: 07/31/2015 Next Scheduled EDR Contact: 09/21/2015	
WIP: Well Investigation Program Case List Well Investigation Program case in the San Gabriel and San Fernando Valley area.		abriel and San Fernando Valley area.	

Date of Government Version: 07/03/2009 Date Data Arrived at EDR: 07/21/2009	Source: Los Angeles Water Quality Control Board Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 06/22/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Varies

### ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/30/2015	Source: State Water Resoruces Control Board
Date Data Arrived at EDR: 05/01/2015	Telephone: 916-445-9379
Date Made Active in Reports: 05/13/2015	Last EDR Contact: 08/07/2015
Number of Days to Update: 12	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 10/15/2014 Date Made Active in Reports: 11/19/2014 Number of Days to Update: 35 Source: California Environmental Protection Agency Telephone: 916-255-1136 Last EDR Contact: 07/17/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 03/25/2014 Date Made Active in Reports: 04/28/2014 Number of Days to Update: 34 Source: California Air Resources Board Telephone: 916-322-2990 Last EDR Contact: 06/25/2015 Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Varies

### INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: US
Date Data Arrived at EDR: 12/08/2006	Telephone:
Date Made Active in Reports: 01/11/2007	Last EDR C
Number of Days to Update: 34	Next Sched

Source: USGS Telephone: 202-208-3710 Last EDR Contact: 07/14/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Semi-Annually

# SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011 Number of Days to Update: 54 Source: Environmental Protection Agency Telephone: 615-532-8599 Last EDR Contact: 05/21/2015 Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Varies

# FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wildemess, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 339 Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 07/14/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: N/A

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 05/14/2015
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/24/2015
	Data Release Frequency: Quarterly

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 05/20/2015
Number of Days to Update: 9	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

# 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/09/2015 Number of Days to Update: 6 Source: Environmental Protection Agency Telephone: 703-308-4044 Last EDR Contact: 05/14/2015 Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Varies

### LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

# EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: 617-520-3000 Last EDR Contact: 08/04/2015 Next Scheduled EDR Contact: 11/23/2015 Data Release Frequency: Quarterly

LEAD SMELTER 1: Lead Smelter Sites A listing of former lead smelter site locations.		
Date of Government Version: 11/25/2014 Date Data Arrived at EDR: 11/26/2014 Date Made Active in Reports: 01/29/2015 Number of Days to Update: 64	Source: Environmental Protection Agency Telephone: 703-603-8787 Last EDR Contact: 07/07/2015 Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Varies	
PROC: Certified Processors Database A listing of certified processors.		
Date of Government Version: 06/15/2015 Date Data Arrived at EDR: 06/17/2015 Date Made Active in Reports: 07/14/2015 Number of Days to Update: 27	Source: Department of Conservation Telephone: 916-323-3836 Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Quarterly	
US FIN ASSUR: Financial Assurance Information All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.		
Date of Government Version: 03/09/2015 Date Data Arrived at EDR: 03/10/2015 Date Made Active in Reports: 03/25/2015 Number of Days to Update: 15	Source: Environmental Protection Agency Telephone: 202-566-1917 Last EDR Contact: 05/14/2015 Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Quarterly	
Financial Assurance 1: Financial Assurance Information Listing Financial Assurance information		
Date of Government Version: 04/30/2015 Date Data Arrived at EDR: 05/01/2015 Date Made Active in Reports: 05/13/2015 Number of Days to Update: 12	Source: Department of Toxic Substances Control Telephone: 916-255-3628 Last EDR Contact: 07/24/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies	
US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS) The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.		
Date of Government Version: 10/16/2014 Date Data Arrived at EDR: 10/31/2014 Date Made Active in Reports: 11/17/2014 Number of Days to Update: 17	Source: EPA Telephone: 202-564-2496 Last EDR Contact: 06/22/2015 Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Annually	
US AIRS MINOR: Air Facility System Data A listing of minor source facilities.		
Date of Government Version: 10/16/2014 Date Data Arrived at EDR: 10/31/2014 Date Made Active in Reports: 11/17/2014 Number of Days to Update: 17	Source: EPA Telephone: 202-564-2496 Last EDR Contact: 06/22/2015 Next Scheduled EDR Contact: 10/22/2015 Data Release Frequency: Annually	

PCB TRANSFORMER: PCB Transformer Registra	
Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012 Number of Days to Update: 83	as that includes all PCB registration submittals. Source: Environmental Protection Agency Telephone: 202-566-0517 Last EDR Contact: 07/31/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies
COAL ASH EPA: Coal Combustion Residues Surface Impoundments List A listing of coal combustion residues surface impoundments with high hazard potential ratings.	
Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014 Number of Days to Update: 40	Source: Environmental Protection Agency Telephone: N/A Last EDR Contact: 06/12/2015 Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Varies
MWMP: Medical Waste Management Program Listing The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permittir and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.	
Date of Government Version: 05/07/2015 Date Data Arrived at EDR: 06/09/2015 Date Made Active in Reports: 07/14/2015 Number of Days to Update: 35	Source: Department of Public Health Telephone: 916-558-1784 Last EDR Contact: 06/09/2015 Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Varies
COAL ASH DOE: Steam-Electric Plant Operation Data A listing of power plants that store ash in surface ponds.	
Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009 Number of Days to Update: 76	Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 07/13/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Varies
Financial Assurance 2: Financial Assurance Information Listing A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.	
Date of Government Version: 05/18/2015 Date Data Arrived at EDR: 05/22/2015 Date Made Active in Reports: 06/05/2015 Number of Days to Update: 14	Source: California Integrated Waste Management Board Telephone: 916-341-6066 Last EDR Contact: 05/18/2015 Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Varies
person to transport hazardous wastes unless	atabase Califomia, unless specifically exempted, it is unlawful for any the person holds a valid registration issued by DTSC. A hazardous year and is assigned a unique registration number.
Date of Government Version: 07/13/2015 Date Data Arrived at EDR: 07/14/2015	Source: Department of Toxic Substances Control

Date of Government Version: 07/13/2015 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 20 Source: Department of Toxic Substances Contro Telephone: 916-440-7145 Last EDR Contact: 07/14/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Quarterly

# HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/26/2015 Date Data Arrived at EDR: 05/28/2015 Date Made Active in Reports: 06/05/2015 Number of Days to Update: 8 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 05/28/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Quarterly

# EDR HIGH RISK HISTORICAL RECORDS

# EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

# EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

### EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

# EDR RECOVERED GOVERNMENT ARCHIVES

### Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

Telephone: N/A

Source: State Water Resources Control Board

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 12/30/2013 Number of Days to Update: 182

COUNTY RECORDS

#### ALAMEDA COUNTY:

#### Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 07/21/2015 Date Data Arrived at EDR: 07/24/2015 Date Made Active in Reports: 08/05/2015 Number of Days to Update: 12 Source: Alameda County Environmental Health Services Telephone: 510-567-6700 Last EDR Contact: 08/10/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Semi-Annually

#### Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/21/2015	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 07/22/2015	Telephone: 510-567-6700
Date Made Active in Reports: 08/03/2015	Last EDR Contact: 07/13/2015
Number of Days to Update: 12	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Semi-Annually

#### AMADOR COUNTY:

# CUPA Facility List

Cupa Facility List

Date of Government Version: 06/05/2015 Date Data Arrived at EDR: 06/09/2015 Date Made Active in Reports: 07/10/2015 Number of Days to Update: 31 Source: Amador County Environmental Health Telephone: 209-223-6439 Last EDR Contact: 06/05/2015 Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Varies

### BUTTE COUNTY:

# CUPA Facility Listing

Cupa facility list.

Date of Government Version: 11/20/2014 Date Data Arrived at EDR: 11/24/2014 Date Made Active in Reports: 01/07/2015 Number of Days to Update: 44 Source: Public Health Department Telephone: 530-538-7149 Last EDR Contact: 07/13/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: No Update Planned

# CALVERAS COUNTY:

CUPA Facility Listing Cupa Facility Listing

> Date of Government Version: 07/15/2015 Date Data Arrived at EDR: 07/17/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 17

Source: Calveras County Environmental Health Telephone: 209-754-6399 Last EDR Contact: 06/22/2015 Next Scheduled EDR Contact: 10/12/2015 Data Release Frequency: Quarterly

# COLUSA COUNTY:

# CUPA Facility List

Cupa facility list.

Date of Government Version: 06/11/2014 Date Data Arrived at EDR: 06/13/2014 Date Made Active in Reports: 07/07/2014 Number of Days to Update: 24 Source: Health & Human Services Telephone: 530-458-0396 Last EDR Contact: 06/12/2015 Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Varies

# CONTRA COSTA COUNTY:

# Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/26/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 13 Source: Contra Costa Health Services Department Telephone: 925-646-2286 Last EDR Contact: 08/03/2015 Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Semi-Annually

# DEL NORTE COUNTY:

# CUPA Facility List

Cupa Facility list

Date of Government Version: 05/19/2015 Date Data Arrived at EDR: 05/22/2015 Date Made Active in Reports: 06/05/2015 Number of Days to Update: 14 Source: Del Norte County Environmental Health Division Telephone: 707-465-0426 Last EDR Contact: 07/31/2015 Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 05/26/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/05/2015 Number of Days to Update: 7 Source: El Dorado County Environmental Management Department Telephone: 530-621-6623 Last EDR Contact: 08/03/2015 Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Varies

### FRESNO COUNTY:

### CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/13/2015 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 20 Source: Dept. of Community Health Telephone: 559-445-3271 Last EDR Contact: 07/06/2015 Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Semi-Annually

# HUMBOLDT COUNTY:

# CUPA Facility List

CUPA facility list. Date of Government Version: 03/11/2015 Date Data Arrived at EDP: 03/13/2015

Date Data Arrived at EDR: 03/13/2015 Date Made Active in Reports: 03/24/2015 Number of Days to Update: 11 Source: Humboldt County Environmental Health Telephone: N/A Last EDR Contact: 07/14/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

# IMPERIAL COUNTY:

# CUPA Facility List Cupa facility list.

Date of Government Version: 04/27/2015 Date Data Arrived at EDR: 04/28/2015 Date Made Active in Reports: 05/13/2015 Number of Days to Update: 15

Source: San Diego Border Field Office Telephone: 760-339-2777 Last EDR Contact: 08/07/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

# INYO COUNTY:

### CUPA Facility List Cupa facility list.

Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 09/11/2013 Date Made Active in Reports: 10/14/2013 Number of Days to Update: 33 Source: Inyo County Environmental Health Services Telephone: 760-878-0238 Last EDR Contact: 05/21/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

### KERN COUNTY:

Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

> Date of Government Version: 05/19/2015 Date Data Arrived at EDR: 06/18/2015 Date Made Active in Reports: 07/22/2015 Number of Days to Update: 34

Source: Kern County Environment Health Services Department Telephone: 661-862-8700 Last EDR Contact: 08/07/2015 Next Scheduled EDR Contact: 11/23/2015 Data Release Frequency: Quarterly

# KINGS COUNTY:

# **CUPA Facility List**

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/26/2015 Date Data Arrived at EDR: 05/28/2015 Date Made Active in Reports: 06/15/2015 Number of Days to Update: 18 Source: Kings County Department of Public Health Telephone: 559-584-1411 Last EDR Contact: 05/21/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

# LAKE COUNTY:

# CUPA Facility List

Cupa facility list

Date of Government Version: 05/05/2015 Date Data Arrived at EDR: 05/07/2015 Date Made Active in Reports: 05/20/2015 Number of Days to Update: 13 Source: Lake County Environmental Health Telephone: 707-263-1164 Last EDR Contact: 07/20/2015 Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Varies

# LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009	Source: EPA Region 9
Date Data Arrived at EDR: 03/31/2009	Telephone: 415-972-3178
Date Made Active in Reports: 10/23/2009	Last EDR Contact: 06/17/2015
Number of Days to Update: 206	Next Scheduled EDR Contact: 10/05/2015
	Data Release Frequency: No Update Planned

# HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 33

Source: Department of Public Works Telephone: 626-458-3517 Last EDR Contact: 07/10/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/20/2015 Date Data Arrived at EDR: 07/21/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 13	Source: La County Department of Public Works Telephone: 818-458-5185 Last EDR Contact: 07/21/2015 Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Varies
City of Los Angeles Landfills Landfills owned and maintained by the City of	Los Angeles.
Date of Government Version: 03/05/2009 Date Data Arrived at EDR: 03/10/2009 Date Made Active in Reports: 04/08/2009 Number of Days to Update: 29	Source: Engineering & Construction Division Telephone: 213-473-7869 Last EDR Contact: 07/20/2015 Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Varies
Site Mitigation List Industrial sites that have had some sort of spil	l or complaint.
Date of Government Version: 01/15/2015 Date Data Arrived at EDR: 01/29/2015 Date Made Active in Reports: 03/10/2015 Number of Days to Update: 40	Source: Community Health Services Telephone: 323-890-7806 Last EDR Contact: 07/15/2015 Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Annually
City of El Segundo Underground Storage Tank Underground storage tank sites located in El S	Segundo city.
Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 04/02/2015 Date Made Active in Reports: 04/13/2015 Number of Days to Update: 11	Source: City of El Segundo Fire Department Telephone: 310-524-2236 Last EDR Contact: 07/17/2015 Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Semi-Annually
City of Long Beach Underground Storage Tank Underground storage tank sites located in the	city of Long Beach.
Date of Government Version: 03/03/2015 Date Data Arrived at EDR: 05/26/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 16	Source: City of Long Beach Fire Department Telephone: 562-570-2563 Last EDR Contact: 07/27/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Annually
City of Torrance Underground Storage Tank Underground storage tank sites located in the	city of Torrance.
Date of Government Version: 06/03/2015 Date Data Arrived at EDR: 06/04/2015 Date Made Active in Reports: 07/06/2015 Number of Days to Update: 32	Source: City of Torrance Fire Department Telephone: 310-618-2973 Last EDR Contact: 06/04/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Semi-Annually

# MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/28/2015 Date Data Arrived at EDR: 05/29/2015 Date Made Active in Reports: 06/15/2015 Number of Days to Update: 17 Source: Madera County Environmental Health Telephone: 559-675-7823 Last EDR Contact: 05/22/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

# MARIN COUNTY:

Underground Storage Tank Sites Currently permitted USTs in Marin County.

> Date of Government Version: 10/08/2014 Date Data Arrived at EDR: 10/22/2014 Date Made Active in Reports: 12/15/2014 Number of Days to Update: 54

Source: Public Works Department Waste Management Telephone: 415-499-6647 Last EDR Contact: 07/06/2015 Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Semi-Annually

# MERCED COUNTY:

#### CUPA Facility List CUPA facility list.

Date of Government Version: 05/22/2015 Date Data Arrived at EDR: 05/26/2015 Date Made Active in Reports: 06/05/2015 Number of Days to Update: 10 Source: Merced County Environmental Health Telephone: 209-381-1094 Last EDR Contact: 05/22/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

### MONO COUNTY:

# CUPA Facility List

CUPA Facility List

Date of Government Version: 06/01/2015 Date Data Arrived at EDR: 06/03/2015 Date Made Active in Reports: 07/06/2015 Number of Days to Update: 33 Source: Mono County Health Department Telephone: 760-932-5580 Last EDR Contact: 06/01/2015 Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Varies

### MONTEREY COUNTY:

# **CUPA Facility Listing**

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/30/2015 Date Data Arrived at EDR: 07/07/2015 Date Made Active in Reports: 07/16/2015 Number of Days to Update: 9 Source: Monterey County Health Department Telephone: 831-796-1297 Last EDR Contact: 05/26/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

# NAPA COUNTY:

# Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011 Date Data Arrived at EDR: 12/06/2011 Date Made Active in Reports: 02/07/2012 Number of Days to Update: 63 Source: Napa County Department of Environmental Management Telephone: 707-253-4269 Last EDR Contact: 06/01/2015 Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 01/16/2008	Telephone: 707-253-4269
Date Made Active in Reports: 02/08/2008	Last EDR Contact: 06/01/2015
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: No Update Planned

# NEVADA COUNTY:

CUPA Facility List CUPA facility list.

> Date of Government Version: 06/03/2015 Date Data Arrived at EDR: 06/04/2015 Date Made Active in Reports: 07/22/2015 Number of Days to Update: 48

Source: Community Development Agency Telephone: 530-265-1467 Last EDR Contact: 07/31/2015 Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Varies

# ORANGE COUNTY:

List of Industrial Site	Cleanups
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Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2015 Date Data Arrived at EDR: 05/12/2015 Date Made Active in Reports: 06/05/2015 Number of Days to Update: 24 Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 08/06/2015 Next Scheduled EDR Contact: 11/23/2015 Data Release Frequency: Annually

# List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2015 Date Data Arrived at EDR: 05/12/2015 Date Made Active in Reports: 06/08/2015 Number of Days to Update: 27 Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 05/06/2015 Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2015 Date Data Arrived at EDR: 05/12/2015 Date Made Active in Reports: 06/11/2015 Number of Days to Update: 30 Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 08/06/2015 Next Scheduled EDR Contact: 11/23/2015 Data Release Frequency: Quarterly

PLACER COUNTY:

# Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 07/01/2015 Date Data Arrived at EDR: 07/07/2015	Source: Placer County Health and Human Services Telephone: 530-745-2363
Date Made Active in Reports: 08/05/2015	Last EDR Contact: 06/22/2015
Number of Days to Update: 29	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Semi-Annually

#### **RIVERSIDE COUNTY:**

#### Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/15/2015 Date Data Arrived at EDR: 07/17/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 17 Source: Department of Environmental Health Telephone: 951-358-5055 Last EDR Contact: 06/22/2015 Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/15/2015	Source: Department of Environmental Health
Date Data Arrived at EDR: 07/17/2015	Telephone: 951-358-5055
Date Made Active in Reports: 08/03/2015	Last EDR Contact: 06/22/2015
Number of Days to Update: 17	Next Scheduled EDR Contact: 10/05/2015
	Data Release Frequency: Quarterly

# SACRAMENTO COUNTY:

### Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 05/07/2015	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 07/24/2015	Telephone: 916-875-8406
Date Made Active in Reports: 08/03/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

# Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/07/2015 Date Data Arrived at EDR: 07/27/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 7 Source: Sacramento County Environmental Management Telephone: 916-875-8406 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Quarterly

### SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 06/30/2015 Date Data Arrived at EDR: 07/07/2015 Date Made Active in Reports: 07/14/2015 Number of Days to Update: 7 Source: San Bernardino County Fire Department Hazardous Materials Division Telephone: 909-387-3041 Last EDR Contact: 05/12/2015 Next Scheduled EDR Contact: 08/24/2015 Data Release Frequency: Quarterly

# SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013Source: Hazardous Materials Management DivisionDate Data Arrived at EDR: 09/24/2013Telephone: 619-338-2268Date Made Active in Reports: 10/17/2013Last EDR Contact: 06/05/2015Number of Days to Update: 23Next Scheduled EDR Contact: 09/21/2015Date Made Active in Reports: 01/17/2013Date Contact: 09/21/2015Number of Days to Update: 23Date Contact: 09/21/2015Date Made Active in Reports: 01/17/2013Date Contact: 09/21/2015Number of Days to Update: 23Date Contact: 09/21/2015Data Release Frequency: QuarterlyDate Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2014 Date Data Arrived at EDR: 11/21/2014 Date Made Active in Reports: 12/29/2014 Number of Days to Update: 38 Source: Department of Health Services Telephone: 619-338-2209 Last EDR Contact: 07/22/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010 Date Data Arrived at EDR: 06/15/2010 Date Made Active in Reports: 07/09/2010 Number of Days to Update: 24 Source: San Diego County Department of Environmental Health Telephone: 619-338-2371 Last EDR Contact: 06/03/2015 Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

#### Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008	Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 09/19/2008	Telephone: 415-252-3920
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 08/06/2015
Number of Days to Update: 10	Next Scheduled EDR Contact: 11/23/2015 Data Release Frequency: Quarterly

#### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010 Date Data Arrived at EDR: 03/10/2011 Date Made Active in Reports: 03/15/2011 Number of Days to Update: 5 Source: Department of Public Health Telephone: 415-252-3920 Last EDR Contact: 08/06/2015 Next Scheduled EDR Contact: 11/23/2015 Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

### San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 07/06/2015 Number of Days to Update: 10 Source: Environmental Health Department Telephone: N/A Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Semi-Annually

# SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 05/22/2015 Date Data Arrived at EDR: 05/26/2015 Date Made Active in Reports: 06/10/2015 Number of Days to Update: 15 Source: San Luis Obispo County Public Health Department Telephone: 805-781-5596 Last EDR Contact: 05/20/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

# SAN MATEO COUNTY:

### **Business Inventory**

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 07/20/2015 Date Data Arrived at EDR: 07/22/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 12 Source: San Mateo County Environmental Health Services Division Telephone: 650-363-1921 Last EDR Contact: 06/15/2015 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Annually

# Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/10/2015	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 06/16/2015	Telephone: 650-363-1921
Date Made Active in Reports: 07/14/2015	Last EDR Contact: 06/10/2015
Number of Days to Update: 28	Next Scheduled EDR Contact: 06/29/2015
	Data Release Frequency: Semi-Annually

# SANTA BARBARA COUNTY:

### CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011Source: Santa Barbara County Public Health DepartmentDate Data Arrived at EDR: 09/09/2011Telephone: 805-686-8167Date Made Active in Reports: 10/07/2011Last EDR Contact: 05/22/2015Number of Days to Update: 28Next Scheduled EDR Contact: 09/07/2015Data Release Frequency: Varies

# SANTA CLARA COUNTY:

Cupa Facility List Cupa facility list

Date of Government Version: 06/10/2015 Date Data Arrived at EDR: 06/16/2015 Date Made Active in Reports: 07/10/2015 Number of Days to Update: 24 Source: Department of Environmental Health Telephone: 408-918-1973 Last EDR Contact: 06/05/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005 Date Data Arrived at EDR: 03/30/2005 Date Made Active in Reports: 04/21/2005 Number of Days to Update: 22 Source: Santa Clara Valley Water District Telephone: 408-265-2600 Last EDR Contact: 03/23/2009 Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014 Date Data Arrived at EDR: 03/05/2014 Date Made Active in Reports: 03/18/2014 Number of Days to Update: 13 Source: Department of Environmental Health Telephone: 408-918-3417 Last EDR Contact: 06/01/2015 Next Scheduled EDR Contact: 09/14/2015 Data Release Frequency: Annually

### Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/07/2015	Source: City of San Jose Fire Department
Date Data Arrived at EDR: 05/12/2015	Telephone: 408-535-7694
Date Made Active in Reports: 06/08/2015	Last EDR Contact: 08/07/2015
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/23/2015
	Data Release Frequency: Annually

# SANTA CRUZ COUNTY:

CUPA Facility List CUPA facility listing.

> Date of Government Version: 05/22/2015 Date Data Arrived at EDR: 05/26/2015 Date Made Active in Reports: 06/08/2015 Number of Days to Update: 13

Source: Santa Cruz County Environmental Health Telephone: 831-464-2761 Last EDR Contact: 05/22/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

# SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 06/12/2015 Date Data Arrived at EDR: 06/16/2015 Date Made Active in Reports: 07/10/2015 Number of Days to Update: 24 Source: Shasta County Department of Resource Management Telephone: 530-225-5789 Last EDR Contact: 05/26/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Varies

# SOLANO COUNTY:

#### Leaking Underground Storage Tanks A listing of leaking underground storage tank sites located in Solano county. Date of Government Version: 06/19/2015 Source: Solano County Department of Environmental Management Date Data Arrived at EDR: 06/24/2015 Telephone: 707-784-6770 Date Made Active in Reports: 07/14/2015 Last EDR Contact: 06/10/2015 Next Scheduled EDR Contact: 09/28/2015 Number of Days to Update: 20 Data Release Frequency: Quarterly Underground Storage Tanks Underground storage tank sites located in Solano county. Date of Government Version: 06/19/2015 Source: Solano County Department of Environmental Management Date Data Arrived at EDR: 06/30/2015 Telephone: 707-784-6770 Date Made Active in Reports: 07/07/2015 Last EDR Contact: 06/10/2015 Number of Days to Update: 7 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Quarterly SONOMA COUNTY: Cupa Facility List Cupa Facility list Date of Government Version: 06/22/2015 Source: County of Sonoma Fire & Emergency Services Department Date Data Arrived at EDR: 06/26/2015 Telephone: 707-565-1174 Last EDR Contact: 06/22/2015 Date Made Active in Reports: 07/14/2015 Next Scheduled EDR Contact: 10/12/2015 Number of Days to Update: 18 Data Release Frequency: Varies Leaking Underground Storage Tank Sites A listing of leaking underground storage tank sites located in Sonoma county. Date of Government Version: 07/01/2015 Source: Department of Health Services Date Data Arrived at EDR: 07/07/2015 Telephone: 707-565-6565 Date Made Active in Reports: 07/14/2015 Last EDR Contact: 06/22/2015 Next Scheduled EDR Contact: 10/12/2015 Number of Days to Update: 7 Data Release Frequency: Quarterly SUTTER COUNTY: Underground Storage Tanks Underground storage tank sites located in Sutter county. Source: Sutter County Department of Agriculture Date of Government Version: 06/05/2015 Telephone: 530-822-7500 Date Data Arrived at EDR: 06/09/2015 Last EDR Contact: 06/05/2015 Date Made Active in Reports: 07/06/2015 Number of Days to Update: 27 Next Scheduled EDR Contact: 09/21/2015 Data Release Frequency: Semi-Annually TUOLUMNE COUNTY:

# CUPA Facility List

# Cupa facility list

Date of Government Version: 07/13/2015 Date Data Arrived at EDR: 07/28/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 6 Source: Divison of Environmental Health Telephone: 209-533-5633 Last EDR Contact: 07/24/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Varies

### VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and C The BWT list indicates by site address whethe Producer (W), and/or Underground Tank (T) ir	er the Environmental Health Division has Business Plan (B), Waste
Date of Government Version: 06/26/2015 Date Data Arrived at EDR: 07/17/2015 Date Made Active in Reports: 08/03/2015 Number of Days to Update: 17	Source: Ventura County Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 07/15/2015 Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Quarterly
Inventory of Illegal Abandoned and Inactive Sites Ventura County Inventory of Closed, Illegal Ab	pandoned, and Inactive Sites.
Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012 Number of Days to Update: 49	Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 06/26/2015 Next Scheduled EDR Contact: 10/19/2015 Data Release Frequency: Annually
Listing of Underground Tank Cleanup Sites Ventura County Underground Storage Tank C	leanup Sites (LUST).
Date of Government Version: 05/29/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/31/2008 Number of Days to Update: 37	Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 05/18/2015 Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: Quarterly
Medical Waste Program List To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.	
Date of Government Version: 04/27/2015 Date Data Arrived at EDR: 04/29/2015 Date Made Active in Reports: 05/13/2015 Number of Days to Update: 14	Source: Ventura County Resource Management Agency Telephone: 805-654-2813 Last EDR Contact: 07/27/2015 Next Scheduled EDR Contact: 11/09/2015 Data Release Frequency: Quarterly
Underground Tank Closed Sites List Ventura County Operating Underground Stora	ge Tank Sites (UST)/Underground Tank Closed Sites List.
Date of Government Version: 05/27/2015 Date Data Arrived at EDR: 06/17/2015 Date Made Active in Reports: 07/06/2015 Number of Days to Update: 19	Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 06/17/2015 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Quarterly
YOLO COUNTY:	
Underground Storage Tank Comprehensive Facility Underground storage tank sites located in Yol	
Date of Government Version: 07/08/2015 Date Data Arrived at EDR: 07/13/2015 Date Made Active in Reports: 07/22/2015	Source: Yolo County Department of Health Telephone: 530-666-8646 Last EDR Contact: 07/06/2015

Number of Days to Update: 9

Last EDR Contact: 07/06/2015 Next Scheduled EDR Contact: 10/05/2015 Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 05/18/2015 Date Data Arrived at EDR: 05/19/2015 Date Made Active in Reports: 06/05/2015 Number of Days to Update: 17 Source: Yuba County Environmental Health Department Telephone: 530-749-7523 Last EDR Contact: 07/31/2015 Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Varies

# OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/03/2013 Number of Days to Update: 45	Source: Department of Energy & Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 05/18/2015 Next Scheduled EDR Contact: 08/31/2015 Data Release Frequency: No Update Planned
NJ MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 12/31/2012	Source: Department of Environmental Protection

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 04/29/2015 Date Made Active in Reports: 05/29/2015 Number of Days to Update: 30 Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 07/13/2015 Next Scheduled EDR Contact: 10/28/2015 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2015 Date Data Arrived at EDR: 05/06/2015 Date Made Active in Reports: 05/20/2015 Number of Days to Update: 14 Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 08/06/2015 Next Scheduled EDR Contact: 11/16/2015 Data Release Frequency: Annually

PAMANIFEST: Manifest Information Hazardous waste manifest information.

> Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/21/2014 Date Made Active in Reports: 08/25/2014 Number of Days to Update: 35

RI MANIFEST: Manifest information Hazardous waste manifest information

> Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 06/19/2015 Date Made Active in Reports: 07/15/2015 Number of Days to Update: 26

Source: Department of Environmental Protection Telephone: 717-783-8990 Last EDR Contact: 07/20/2015 Next Scheduled EDR Contact: 11/02/2015 Data Release Frequency: Annually

Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 05/26/2015 Next Scheduled EDR Contact: 09/07/2015 Data Release Frequency: Annually

WI MANIFEST: Manifest Information Hazardous waste manifest information.

> Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 03/19/2015 Date Made Active in Reports: 04/07/2015 Number of Days to Update: 19

Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 06/11/2015 Next Scheduled EDR Contact: 09/28/2015 Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation Telephone: 281-546-1505

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: 800-823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

# AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals. Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical

database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

# STREET AND ADDRESS INFORMATION

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Sunray 35100 Stanta Fe Street Daggett, CA 92327

Inquiry Number: 4377373.3 August 07, 2015

# **Certified Sanborn® Map Report**



6 Armstrong Road, 4th Floor Shelton, Connecticut 06484 Toll Free: 800.352.0050 www.edrnet.com

# Certified Sanborn® Map Report

Site Name:	Cli
Sunray	We
35100 Stanta Fe Street	76
Daggett, CA 92327	Ed

EDR Inquiry # 4377373.3

**Client Name:** Westwood Professional 7699 Anagram Drive Eden Prairie, MN 55344

3.3 Contact: Tom Braman

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Westwood Professional Services were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

# Certified Sanborn Results:

Site Name:	Sunray
Address:	35100 Stanta Fe Street
City, State, Zip:	Daggett, CA 92327
Cross Street:	
P.O. #	NA
Project:	R0006575.00
Certification #	7382-490B-A442

# UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



8/07/15

Sanborn® Library search results Certification # 7382-490B-A442

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

Library of Congress
 University Publications of America
 EDR Private Collection

The Sanborn Library LLC Since 1866™

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**Sunray** 35100 Stanta Fe Street Daggett, CA 92327

Inquiry Number: 4377373.5 August 12, 2015

# The EDR-City Directory Image Report



6 Armstrong Road Shelton, CT 06484 800.352.0050 www.edrnet.com

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# **SECTION**

**Executive Summary** 

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**City Directory Images** 

*Thank you for your business.* Please contact EDR at 1-800-352-0050 with any questions or comments.

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# **EXECUTIVE SUMMARY**

# DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

# **RESEARCH SUMMARY**

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	<u>Cross Street</u>	<u>Source</u>
2010	$\checkmark$		Haines Criss-Cross Directory
2005	$\checkmark$		Haines Criss-Cross Directory
2000	$\checkmark$		Haines Criss-Cross Directory
1995	$\checkmark$		Haines Criss-Cross Directory
1990	$\checkmark$		Haines Criss-Cross Directory
1985	$\checkmark$		Haines Criss-Cross Directory
1980	$\checkmark$		Haines Criss-Cross Directory
1975	$\checkmark$		Haines Criss-Cross Directory

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# **FINDINGS**

# TARGET PROPERTY STREET

35100 Stanta Fe Street Daggett, CA 92327

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
<u>SANTA FE ST</u>		
2010	pg A1	Haines Criss-Cross Directory
2005	pg A2	Haines Criss-Cross Directory
2005	pg A3	Haines Criss-Cross Directory
2000	pg A4	Haines Criss-Cross Directory
2000	pg A5	Haines Criss-Cross Directory
1995	pg A6	Haines Criss-Cross Directory
1990	pg A7	Haines Criss-Cross Directory
1985	pg A8	Haines Criss-Cross Directory
1980	pg A9	Haines Criss-Cross Directory
1975	pg A10	Haines Criss-Cross Directory

# FINDINGS

# **CROSS STREETS**

No Cross Streets Identified

**City Directory Images** 

Target Street ✓ Cross Street

-

Source Haines Criss-Cross Directory

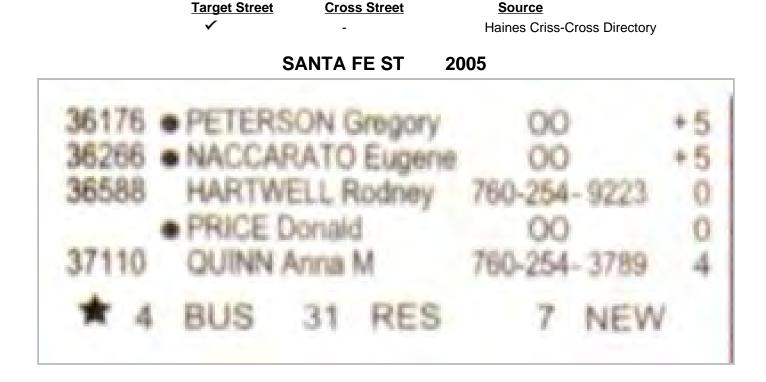
	GGETT			
35100				
	+ + DAGGETT LEASING CORP	760-254	3381	
	# # ELECTRIC CO PAC GAS & ELC CO	760-254	2302	8
	+ + GAS CO PAC GAS	760-254	2302	8
		760-254	2302	8
35258	- CHAVEZ Louis	760-254-	1016	
Х	MOJAVE R	D		
	- CHAVEZ Louis			3
	MADRID Alfred	00		
	♣ ●MCCUNE Paula	00		
32208	<ul> <li>BASS Gregory</li> <li>BEGAY Loretta</li> </ul>	00	No.	4
35318	+ WOODRUFF Ricky			
X			0000	0
	SIERRA W/	00		
		760-254		+ 0
	+ FOSTER Donald	00		3
	A VINTUS Brian	00		ă
35422	♦ eVINTUS Brian	00		4
Х	DAGGETT-	YERM	OR	5
35482	+ STIRLING Barbara			
Х				
	+ SEEL Clyde	00		
35538	A STURMAN Eleanor			3
35546	+COVEY Raymond E	760-254-		
35552	+ MORTON Derinda	00		7
	♣ REEVES Laura	760-254-	2017	+0
	FREEMAN Sharon	00		5
35596	A * DESERT MARKET			
		760-254	3070	6
Х	MILL ST			
	<ul> <li>ELROD Richard</li> <li>GOLDEN Alan</li> </ul>	760-254-00	3882	3
X	4TH ST			
35680	♣HAVERLOCK Justin	760-254-	3719	8
	GOLDEN Alan	00		4
	♣●CONATSER Sylvia	00		
35730		760-254-		-
25040		760-254-		8
	<ul> <li>PEREZ Daisy</li> <li>PETERSON Julie</li> </ul>	760-254-	7031	8
	♦ ●PETERSON Julie ♦ ●SHAPIRO Erika	00		4
	<ul> <li>PRICE Donald</li> </ul>	00		0
	BUS 30 RES			

Targ	et	Street
~		

-

Source Haines Criss-Cross Directory

	TA FE 92327 GETT		
DAG	GEIT		
	WEALTH CODE	1	
35100 *	DAGGETT LEASING	760-254- 3381	
*	PAC GAS & ELECTRIC	760-254- 2302	2
35258	CHAVEZ Louis	760-254-1016	73
35262	CHAVEZ Louis	00	3
35267	MADRID Alfred	00	0
35286	MCCUNE Paula	00	0
35308 •	BASS Gregory	00	+5
	<b>RODRIGUEZ Marshall</b>	760-254-1108	+5
35318	FARNER Ralph E	760-254-3126	
35368	TORRES Froilan	00	0
35378	URBAN Bruce	00	0
35388	FOSTER Donald	760-254-2857	
35398	VINTUS Brian	00	3
35422	VINTUS Brian	00	+5
35482	STIRLING Barbara	00	+5
35530	SEEL Clyde	760-254-3791	4
35538	WALKER Scott	00	0
35546	COVEY Raymond E	760-254-2578	1
	CAMPBELL Bryan	00	0
	ROBBINS Robin	00	0
The second se	* DESERT MARKET	760-254-2774	-
	* U HAUL CO INDEP DEALERS	760-254- 3070	9
35630	ELROD Richard	760-254-3882	3
	<ul> <li>GOLDEN Alan</li> </ul>	00	0
35680	LEGLER B	760-254-3944	+5
	ODEM Charles	760-254-3100	4
35716	GOLDEN Steve	00	
35724	CONATSER Sylvia	00	0
35730	<ul> <li>CONATSER C E</li> </ul>	760-254-2459	
35918	MENDOZA Anthony F	8 760-254- 2470	3



Target	<u>Street</u>
$\checkmark$	

-

Source Haines Criss-Cross Directory

	SANTA FE ST	2000	
	TA FE 92327 GETT	7	
	WEALTH CODE 1.0		
35100	* DAGGETT LEASING CORPORATION	760-254-3381	4
	* PACIFIC GASAELECTRIC	760-254-2302	+0
35198	XXXX	00	
35258	CHAVEZ LOUIS	760-254-1016	7
35267	MADRID Alfred	00	+0
35286	MCCUNE Paula	00	+0
35308	SHAW Rebecca	00	+0
35312	MOYER Ronald	00	+0
35318	FARNER Ralph E	760-254-3126	
35368	<ul> <li>TORRES Froilian</li> </ul>	00	+0
35378	<ul> <li>URBAN Bruce</li> </ul>	00	+0
35388	FOSTER Donald	760-254-2857	
35398	HAYHURST Michael	00	+0
35422	MCKEE David	00	+0
35426	XXXX	00	
35462	XXXXX	00	
35482	WILLIAMS Robert G	760-254-3496	7
35484	XXXX	00	
35520	BALDERAS Susie	00	+0
35530	MASHBURN Steven	00	+0
35538	WALKER Scott	00	+0
35546	COVEY Raymond E	760-254-2576	

Target	Street
$\checkmark$	

-

Source Haines Criss-Cross Directory

	SANTA FE ST	2000	
SANTA F	E	92327 CO	NT.
	CAMPBELL Bryan	00	+0
35562		00	
	NASSER Ghazi	00	+0
35590	and the second se	00	+0
35596	* DESERT MARKET	760-254-2774	
	* U-HAUL CO INDP	760-254-3070	9
	DEALERS		
35608	XXXX	00	
35630	HUNTER James D	760-254-3882	3
35642		00	
35664	GOLDEN Alan	00	+0
35674		00	
35680		760-254-3186	
	BROWNLOW P	760-254-3186	
	HENDERSON R	760-254-1174	+0
	YOUNG Lloyd E	760-254-2193	
		760-254-2193	
35716		00	+0
35724	a statistic metanes in a dist	00	+0
35730	and a share and an and an and	760-254-2459	4
35918		00	
36176		760-254-2292	5
	WEBER John	00	+0
36234		00	
36266	XXXX	00	
36299	<ul> <li>ODETTE Norman</li> </ul>	00	+(
36450		00	+(
36588		760-254-3818	2
	HARTWELL Rodney	760-254-9223	+(
	PRICE Donald	00	+(
36862	XXXXX	00	
36864	XXXX	00	
37000	XXXXX	00	
37072	MOON Winfield Sr	760-254-9104	+(
37110	<b>* SANDIA NATIONAL</b>	760-254-2067	+(
	LABORATORIES		
	* SANDIA NATIONAL	760-254-3035	+(
	LABORATORIES		
37200		760-254-2855	1
	# 6 BUS 52 RES		

Target Street ✓ Cross Street

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Source Haines Criss-Cross Directory

	TA FE 92327		
DAG	GGETT		
	WEALTH CODE 1.0		
35100	*DAGGETT LSNG CORP *DAGGETT LSNG CORP		
35198	XXXX	00	
35286	XXXX	00	
	XXXX	00	
35318	FARNER Ralph E	254-3126	
	XXXX	00	
	FOSTER Donald	254-2857	
35426		00	
35462		00	
	XXXX	00	
35520		00	
	COVEY Raymond E	254-2576	
	XXXX	00	
35562		00	
35596	*DESERT MARKET	254-2774	1
	XXXX	00	
35630	The state of the s	254-3882	-
35642		00	
35664	XXXX	00	
35674	XXXX	00	
35680	BROWNLOW H	254-3186	
	BROWNLOW P	254-3186	
	YOUNG Lloyd E	254-2193	
	YOUNG Norma	254-2193	
35716	XXXX	00	
35730	CONATSER C E	254-2459	1
35918	QUEZADA Pete	254-3043	4
36176	STRICLER Gordon H	254-2229	9
36234	XXXX BREWER E C	00	
36266	XXXX	254-3654	2
36450 36588	The second se	00	
30000	FENNER Carl R	254-3818	2
	PRICE Donald     PRICE Ruth	254-2088	
36862	XXXX	254-2088	
36864	XXXX	00	
37200	HARTER Ron G		
51200	MANIEN HON G	254-2855	6

Target Street ✓

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SAN	TA FE 92327	
-		
DAG	GETT	
35198	XXXX	00
35286	XXXX	00
35308	XXXXX	00
35318		254-3126 2
	RILEY Mike L	254-3165 +0
35378	XXXX	00
35388	FOSTER Donald	254-2857
35398	TORRES Jerry J	254-2945 8
35426		00
35462		00
35482	WILLIAMS Robert	254-2689 1
35520		00
35530		00
35538		254-2583 +0
35546		254-2576
35552	XXXXX	00
35562	XXXXX	00
35596	*DESERT MARKET	254-2774 8
35608	and the second sec	00
35630		254-2344 7
35642		00
35664	XXXX	00
35674	RODARTE Rulugio	254-2303 9
35680	ALVEY E	254-2815 6
	YOUNG Lloyd E	254-2193
35716		00
35730		254-2459
35918,	APARTMENTS	
	FARRELL Joseph	254-3275
	FARRELL Mildred	254-3275
	JENSON Charles	254-2674 +0
	MONTANO Ernesto W	254-2254
	NEWBERRY B	254-2740 1
	STUBBS Bob	254-2336 +0
	STUBBS Tecla	254-2336 +0
		254-2822 8
36154		254-2075 8
36176		254-2229 9
20004	STRICLER Gordon H	204-2229 9
36234	XXXX	254-2847 +0
	LLOYD David L LANGHAM Bobby L	254-2157 +0
36584	PRICE Donald	254-2088
36588	PRICE Donaid	254-2088
	*PRICE TRANSPRTN	254-2613 8
36864	SNADOVAL Hilda B	
30004	2 BUS 42 RES	8 NEW
	2000 42 460	ONEN

✓

Target StreetCross Street

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Source Haines Criss-Cross Directory

SAN	TA FE 92327	
DAG	GETT	
35198	XXXX	00
35267	XXXX	00
35286	XXXX	00
	VOGT ERNEST M	254-3218 +5
	FARNER RALPH E	254-3126 2
35378	XXXX	00
35388	FOSTER DONALD	254-2857 8
35398	COLE D M	254-2657 1
*****	ROBINSON NEHRU	254-2188 +5
35462	XXXX	00
35482	WILLIAMS ROBERT	254-2689 1
	XXXX	00
	XXXX	00
		254-3249 +5
	COVEY RAYMOND E	254-2576 7
	LANFAIR IRA C	254-2165
	XXXX	00
	SCOTTS MKT	254-2774 7
35608		00
35642	XXXX	00
35664	XXXX	00
35674	XXXX	00
35680		254-2119 1
	YOUNG LLOYD E	254-2193
35716		254-2416 3
35730	JACKSON P B	254-2459 6
35918	APARTMENTS	
and law	CARTER CHARLES	254-2803 4
	CHARLEY BEN	254-3176 3
	COFFMAN EARL	254-3221 +5
	FARRELL JOSEPH	254-3275 +5
	MONTANO ERNESTO W	254-2254 9
	NEWBERRY B	254-2740 1
35918		
36266	XXXX	00
36588	MCCLAINE CECIL J	254-2265 0
00000	PEARSON DAVID	254-2018 4
	PRICE DONALD	254-2088 8
36862	GERHART KENNETH A	254-2228 +5
JUUUE	1 BUS 36 RES	6 NEW

Target Street Cross Street ✓

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Source Haines Criss-Cross Directory

SANTA FE ST

1980

SANT	A FE 92327 DA	AGGETT
35198	XXXX	00
35267	XXXX	00
35286	XXXX	UO
35308	SNEDEKER LAWRENCE	254-2025 6
35378	XXXX	00
35388	FOSTER DONALD	254-2857 8
35492	XXXX	00
35530	XXXX	00
35538	XXXX	00
35546	COVEY RAYMOND E	254-2576 7
35552	LANFAIR IRA C	254-2165
35562	XXXX	00
35596 *	SCOTTS MKT	254-2774 7
35608	ROBISON A	254-2807 +0
35642	XXXX	00
35664	XXXX	00
35674	XXXX	00
35680	WENDELL W C	254-2659 +0
	YOUNG LLOYD E	254-2193 5
35730	JACKSON P B	254-2459 6
35918	MONTANO ERNESTO W	254-2254 9
	STRICLER BLAKE	
36588	MCCLAINE CECIL J	254-2265+0
	PRICE DON JR	254-2106 8
		254-2088 8
*	PRICE TRANSPORTATN	
NO #*	OWENS CORNING	
*	3 BUS 24 RES	5 NEW

Target	Street
$\checkmark$	

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Source Haines Criss-Cross Directory

SANTA FE 92327 DAGGETT	r
35198 MASON B D	254-2792 4
35198 MASON B D 35286 EARNEST BILLY J	254-2891 4
	254-2585+5
35378 PADILLA EPIMENIO	254-2405+5
35388 XXXX	00
35484 LACY CONRAD F	254-2581+5
35530 HOLBOROW GED	254-2195
35538 HEEGEL W H	254-2725
35546 EMERT HAROLD L JR	254-2576
35552 LANFAIR IRA C	254-2165
	254-2295
35642 XXXX	00
35664 PASION DOMINGO R	254-2003
35680*TRI CHEM LOD EMBRDY	254-2193+5
YOUNG NORMA L	254-2193+5
	254-2459+5
35918*BROADWAY PARKETTE	254-2119
SPENCER C E	254-2387
	254-2562 3
	254-2088 3
2 BUS 18 RES	

**APPENDIX C** Historic Topographic Maps, and Aerial Photographs Sunray 35100 Stanta Fe Street Daggett, CA 92327

Inquiry Number: 4377373.9 August 12, 2015

# The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th Floor Shelton, Connecticut 06484 Toll Free: 800.352.0050 www.edrnet.com

### **EDR Aerial Photo Decade Package**

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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*Thank you for your business.* Please contact EDR at 1-800-352-0050 with any questions or comments.

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### **Date EDR Searched Historical Sources:**

Aerial Photography August 12, 2015

### **Target Property:**

35100 Stanta Fe Street Daggett, CA 92327

<u>Year</u>	Scale	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=500'	Flight Year: 1952	USGS
1953	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1953	Southwestern
1963	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1963	Mark Hurd
1973	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1973	Teledyne
1983	Aerial Photograph. Scale: 1"=500'	Flight Year: 1983	USGS
1989	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1989	USGS
1995	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1995	USGS/DOQQ
1995	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1995	USGS/DOQQ
1995	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1995	USGS/DOQQ
1995	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1995	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP

<b>Year</b> 2010	Scale Aerial Photograph. Scale: 1"=500'	<b>Details</b> Flight Year: 2010	<i>Source</i> USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

