



SOUTHERN CALIFORNIA  
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A. Edward Scherer  
Manager of  
Nuclear Regulatory Affairs

August 24, 2007

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Subject: Docket Nos. 50-361 and 50-362  
Report of NPDES Permit Violations  
San Onofre Nuclear Generating Station (SONGS), Units 2 and 3

Dear Sir or Madam:

On June 5, 2007, during performance of the required weekly manual sampling of the Unit 3 outfall, a residual chlorine value of 0.21 ppm was obtained. This is above the Unit 3 NPDES Permit, Order No. R9-2005-0006, maximum limit of 0.20 ppm for total residual chlorine. SCE determined the cause of this event was fouling of the outfall monitor causing a slower than normal response time of the analyzer. SCE reported this occurrence to the California RWQCB, San Diego Region, by letter dated July 27, 2007 (Attachment 1).

On June 13, 2007, a sample of the Unit 1 Sewage Treatment Plant effluent indicated a pH of 4.34. This is below the minimum pH level of 6.0 required by the SONGS Unit 2 National Pollution Discharge Elimination System (NPDES) Permit Order No. R9-2005-0005. A review of the operating conditions and records determined that the likely cause was water decanted from the non-operating train of the treatment plant. The pH level was below 6.0 for about ten minutes. Southern California Edison (SCE) reported this occurrence to the California Regional Water Quality Control Board (RWQCB), San Diego Region, by letter dated July 27, 2007 (Attachment 2).

SONGS Units 2 and 3 Facility Operating Licenses (Nos. NPF-10 and NPF-15), Appendix B, Section 3.2, require violations of the NPDES Permit or State certification (pursuant to Section 401 of the Clean Water Act), to be reported to the NRC by submitting copies of the reports required by the NPDES Permit or certification. Accordingly, copies of the reports submitted to the California RWQCB are provided as attachments to this letter.

If you have any questions, please contact Mr. Clay E. Williams at (949) 368-6707.

Sincerely,

P.O. Box 128  
San Clemente, CA 92672  
949-368-7501  
Fax 949-368-7575

COOL  
IE23  
NRR

Attachments: 1. NPDES June 2007 Discharge Monitoring Report, Unit 3, dated July 27, 2007  
2. NPDES June 2007 Discharge Monitoring Report, Unit 2, dated July 27, 2007

cc: B. S. Mallett, NRC Regional Administrator, Region IV  
N. Kalyanam, NRC Project Manager, San Onofre Units 2, and 3  
C. C. Osterholtz, NRC Senior Resident Inspector, San Onofre Units 2 and 3  
S. Y. Hsu, California Department of Health Services

July 27, 2007

Mr. John Robertus  
California Regional Water Quality Control Board  
San Diego Region  
9174 Sky Park Ct. Suite 100  
San Diego, California 92123  
IC: 13-0086.01

SUBJECT: NPDES June 2007 Discharge Monitoring Report  
San Onofre Nuclear Generating Station, Unit 3

Dear Mr. Robertus:

SCE submits the subject report in accordance with the requirements of Order No. R9-2005-0006 (NPDES Permit No. CA0108181). All sampled water sources were found to be within permit limits with one exception. During performance of required weekly manual sampling of the unit 3 outfall for residual chlorine a value of 0.21 ppm was obtained. This is above the NPDES limit for total residual chlorine 0.20 ppm. Therefore, an NPDES exceedance occurred.

Following the event and the immediate corrective actions a test standard was introduced into the outfall monitor. It took approximately 30 minutes for the analyzer to produce it best reading of 0.177 ppm for the 0.2 ppm standard, this is not only out of specification for the analyzer but the response time was much slower than normal. It was observed that the sample tubing in the analyzer appeared fouled. This condition was caused by the recent heat treatment of a circulating water system that was somewhat fouled by the recent red tide conditions. Chemistry was directed to replace the fouled tubing. A new standard was introduced into the analyzer. This resulted in a response of 0.193 ppm in 13 minutes. The majority of the response (to 0.1475 ppm) occurred in two minutes. Not only was this response in specification with respect to value, it was also much faster.

So the cause of this event was the fouling of the outfall monitor causing a slower than normal response time of the analyzer. The analyzer is set to trip the system at 0.13 ppm. This value normally provides sufficient margin to trip the process prior to reaching the exceedance level of 0.2 ppm chlorine. With the response of the analyzer very slow and with the normal injection period very short, the high outfall chlorine concentration was not detected by the analyzer. In the future, the Chemistry Department will inspect the tubing in the chlorine analyzer weekly and purge or replace the tubing in the analyzer as necessary.

Pursuant to Order No. R9-2005-0006, State and Federal Standard Provisions, Section E, the following representative has prepared and is authorized to sign the reports required by this order: Robert K. Heckler, Environmental Engineer.



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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

A handwritten signature in black ink, appearing to read 'H. W. Newton', with a large, stylized flourish at the end.

H. W. Newton  
Manager, Site Support Services

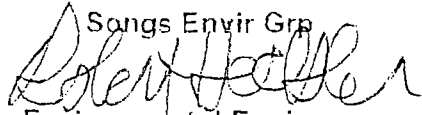
Enclosure

cc: Environmental Protection Agency, Region IX  
State Water Resources Control Board

bcc: J. Reilly  
H. W. Newton/M. J. Johnson - w/o enclosure  
D. Kay  
M. Hunter - w/o enclosure  
O. Flores  
C. Williams  
CDM Files  
IDB - NPDES/R. K. Heckler

# Southern California Edison Monthly Report

Page 1 of 20

Facility : Songs Unit 3      Exact Sample Point : Intake and  
 Order No : R9-2005-0006      Discharge Conduits  
 Report Freq : Monthly      Collected By : Songs Envir Grp  
 Report For : June 2007      Analyzed By : Songs Envir Grp  
 Report Due: Aug 01, 2007      Signed :   
 Waste Stream : Water Intake and      Title : Environmental Engineer  
                          Combined Discharge

PARAMETER: Temperature Difference (degrees Fahrenheit) = Temperature  
 at Combined Discharge Minus Temperature at Water Intake

Date	Combined Discharge Avg	Water Intake Avg    Max	Daily Avg Diff	Daily Max Difference
6-1-07	80	61    63	19	19
6-2-07	84	62    63	22	62 *
6-3-07	81	65    93	16	19
6-4-07	81	62    63	19	19
6-5-07	81	62    63	19	20
6-6-07	82	63    64	19	19
6-7-07	82	63    64	19	19
6-8-07	83	64    65	19	19
6-9-07	84	65    65	19	19
6-10-07	84	65    66	19	19
6-11-07	85	66    67	19	19
6-12-07	85	66    67	19	19
6-13-07	85	66    66	19	19
6-14-07	84	65    66	19	19
6-15-07	85	66    67	19	19
6-16-07	86	67    68	19	19
6-17-07	85	66    68	19	20
6-18-07	86	66    68	19	20
6-19-07	86	66    68	19	20
6-20-07	83	63    66	19	20
6-21-07	81	62    65	19	19
6-22-07	83	64    66	19	19
6-23-07	85	66    67	19	19
6-24-07	85	66    67	19	19
6-25-07	85	66    67	19	20
6-26-07	86	67    68	19	20
6-27-07	86	66    67	19	20
6-28-07	85	66    67	19	20
6-29-07	86	67    68	20	20
6-30-07	86	67    68	19	20
Avg	84	65    67	19	21
Reqt	--	--    --	25	25

\* Heat Treatment Occured : Jun 02, 2007

# Southern California Edison Monthly Report Page 2 of 20

Facility : Songs Unit 3      Exact Sample Point : Intake and Screenwell  
 Order No : R9-2005-0006  
 Report Freq : Monthly      Collected By : Instrumentation  
 Report For : June 2007      Analyzed By : Songs Envir Grp  
 Report Due : Aug 01, 2007      Signed : *Robert Haller*  
 Report Topic : Intake Conduit and Screenwell Heat Treatment      Title : Environmental Engineer

Intake and Screenwell Heat Treatment Occured This Month.

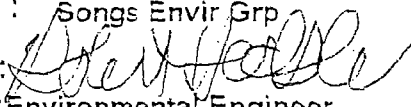
PARAMETER	UNITS	REQUIREMENT	RESULT
Date/Time Treatment Began	--	--	6/2/2007 08:40 pm
Date/Time Treatment Ended	--	--	6/2/2007 09:55 pm
Total Time of Treatment	hours	--	1.25
Maximum Screenwell Temperature Attained (Screenwell Target Temperature)	degr F	* 100	101
Screenwell Target Temp Duration	hours	* 2.1	1.3

Following Section only Completed if Screenwell Target Temperature was Exceeded.

Maximum Screenwell Temperature Attained	degr F	--	N/A
Degrees Above Screenwell Target Temperature	degr F	10	N/A
Maximum Screenwell Temp Duration	min	15	N/A

\* Value Varies (From the Mussel Mortality Graph)

# Southern California Edison Monthly Report

Facility : Songs Unit 3      Exact Sample Point : Intake and Screenwell  
Order No : R9-2005-0006  
Report Freq : Monthly      Collected By : Instrumentation  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007  
Report Topic : Intake Conduit and Screenwell Heat Treatment  
Signed :   
Title : Environmental Engineer

Intake and Screenwell Heat Treatment Occured This Month.

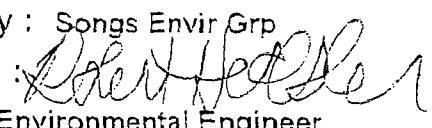
PARAMETER	UNITS	REQUIREMENT	RESULT
Maximum Intake Conduit Temperature Attained (Intake Conduit Target Temperature)	degr F	125	124
Screenwell Target Temp Duration	hours	* 2.1	1.3

Following Section only Completed if Intake Target Temperature was exceeded.

Maximum Intake Conduit Temperature Attained	degr F	--	N/A
Degrees Above Intake Conduit Target Temperature	degr F	10	N/A
Maximum Intake Conduit Temp Duration (Minutes)	min	15	N/A

\* Value Varies (From the Mussel Mortality Curve)

# Southern California Edison Monthly Report

Facility :	Songs Unit 3	Exact Sample Point : Discharge Conduit
Order No :	R9-2005-0006	
Report Freq :	Monthly	Collected By : Instrumentation
Report For :	June 2007	Analyzed By : Songs Envir Grp
Report Due :	Aug 01, 2007	Signed : 
Report Topic :	Discharge Conduit Heat Treatment	Title : Environmental Engineer

Discharge and Screenwell Heat Treatment Occured This Month.

PARAMETER	UNITS	REQUIREMENT	RESULT
Date/Time Treatment Began	--	--	04:49 pm 6/2/2007
Date/Time Treatment Ended	--	--	04:54 pm 6/2/2007
Total Time of Treatment	hours	--	0.08
Maximum Discharge Conduit Temperature Attained (Discharge Conduit Target Temperature)	degr F	105	102

Following Section only Completed if Screenwell Target Temperature was Exceeded.

Maximum Screenwell Temperature Attained	degr F	--	N/A
Degrees Above Screenwell Target Temperature	degr F	10	N/A
Maximum Screenwell Temp Duration	min	15	N/A

\* Value Varies (From the Mussel Mortality Graph)



# Southern California Edison Monthly Report Page 5 of 20

Facility : Songs Unit 3  
 Order No : R9-2005-0006  
 Report Freq : Monthly  
 Report For : June 2007  
 Report Due : Aug 01, 2007  
 Waste Stream : Combined Discharge  
 Low Volume Waste

Exact Sample Point : Points of Discharge

Collected By : Songs Envir Grp

Analyzed By : Songs Envir Grp


Signed :   
 Title : Environmental Engineer

Parameter : Flow Rate

Units : Million Gallons per Day (MGD)

Date	Combined Discharge	Circ Water Intake	Total Low Volume Waste	Total Sewage Treatment	In Plant Waste
1	1,218.705	1,218.586	0.119	0.000	0.119
2	1,218.787	1,218.586	0.201	0.000	0.201
3	1,218.690	1,218.586	0.104	0.000	0.104
4	1,218.722	1,218.586	0.136	0.000	0.136
5	1,218.682	1,218.586	0.096	0.000	0.096
6	1,218.656	1,218.586	0.070	0.000	0.070
7	1,218.656	1,218.586	0.070	0.000	0.070
8	1,218.886	1,218.586	0.300	0.000	0.300
9	1,218.656	1,218.586	0.070	0.000	0.070
10	1,218.750	1,218.586	0.164	0.000	0.164
11	1,218.878	1,218.586	0.292	0.000	0.292
12	1,218.767	1,218.586	0.181	0.000	0.181
13	1,218.782	1,218.586	0.196	0.000	0.196
14	1,218.739	1,218.586	0.153	0.000	0.153
15	1,218.855	1,218.586	0.269	0.000	0.269
16	1,218.656	1,218.586	0.070	0.000	0.070
17	1,218.800	1,218.586	0.214	0.000	0.214
18	1,218.839	1,218.586	0.253	0.000	0.253
19	1,218.714	1,218.586	0.128	0.000	0.128
20	1,218.796	1,218.586	0.210	0.000	0.210
21	1,218.744	1,218.586	0.158	0.000	0.158
22	1,218.747	1,218.586	0.161	0.000	0.161
23	1,218.745	1,218.586	0.159	0.000	0.159
24	1,218.856	1,218.586	0.270	0.000	0.270
25	1,218.850	1,218.586	0.264	0.000	0.264
26	1,218.876	1,218.586	0.290	0.000	0.290
27	1,218.869	1,218.586	0.283	0.000	0.283
28	1,218.936	1,218.586	0.350	0.000	0.350
29	1,218.857	1,218.586	0.271	0.000	0.271
30	1,218.726	1,218.586	0.140	0.000	0.140
Avg	1,218.774	1,218.586	0.188	0.000	0.188
Reqt	1286.900		11.610	0.145	

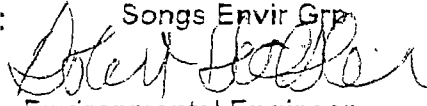
Sewage Treatment Discharged To Unit 2 Outfall

Facility : Songs Unit 3      Exact Sample Point : Intake and  
Order No : R9-2005-0006      Discharge Conduits  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Cooling Water Intake      Title : Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
pH	--	GRAB	--	--	8.3	6/13/2007 12:30 pm
Turbidity	NTU	GRAB	--	--	3.1	6/13/2007 12:30 pm

## Southern California Edison Monthly Report

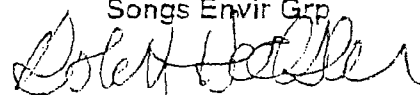
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Facility : Songs Unit 3      Exact Sample Point : Point of  
 Order No : R9-2005-0006      Discharge  
 Report Freq : Monthly      Collected By : Songs Envir Grp  
 Report For : June 2007      Analyzed By : Songs Envir Grp  
 Report Due : Aug 01, 2007      Signed :   
 Waste Stream : Combined Discharge      Title : Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Turbidity	NTU	GRAB	--	--	1.7	6/05/07 09:10 am
pH	--	GRAB	--	6 - 9	8.2	6/05/07 09:10 am
Hydrazine	ug/l	GRAB	Inst Max	--	< 4.0	6/16/07
	lbs/day			--	< 40.7	08:32 am
Total Chlorine Residual	ug/l	GRAB	Inst Max	200	210.0	6/05/07
	lbs/day			2100	88.9	09:10 am
	ug/l	GRAB	Daily Max	88	18	6/05/07
	lbs/day			940	7.6	09:10 am
	ug/l	GRAB	6-MO Median	22	7	6/05/07 09:10 am

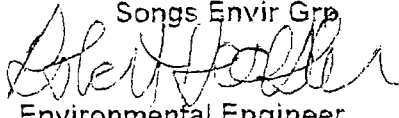
## Southern California Edison Monthly Report

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Facility : Songs Unit 3      Exact Sample Point : Point of  
Order No : RS-2005-0006      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Hotwell Overboard      Title : Environmental Engineer  
(Low Volume Waste)

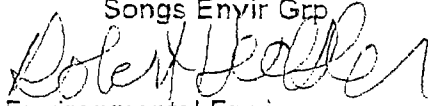
Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Total Suspended Solids	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

\* NO FLOW IN JUNE 2007

Facility : Songs Unit 3      Exact Sample Point : Point of  
Order No : R9-2005-0006      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Steam Generator      Title : Environmental Engineer  
Blowdown (Low Volume Waste)

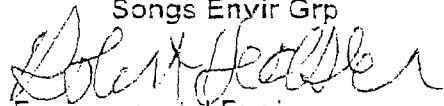
Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

\* NO FLOW IN JUNE 2007

Facility : Songs Unit 3      Exact Sample Point : Point of  
Order No : R9-2005-0006      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Blowdown Processing      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

\* NO FLOW IN JUNE 2007

Facility : Songs Unit 3      Exact Sample Point : Point of  
Order No : R9-2005-0006      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Polishing Demineralizer      Title : Environmental Engineer  
System (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	11.4	6/29/2007
	lbs/day			19.00	4.62	07:53 pm
	mg/l	GRAB	Daily Max	100	11.4	6/29/2007
	lbs/day			65.14	7.23	07:53 pm
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 1.8	6/12/2007
	lbs/day			14.27	< 0.73	05:42 pm
	mg/l	GRAB	Daily Max	20	< 1.8	6/29/2007
	lbs/day			12.49	< 1.14	07:53 pm

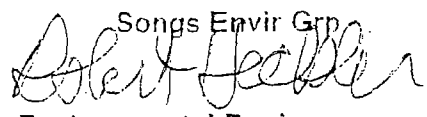
Facility : Songs Unit 3      Exact Sample Point : Point of  
 Order No : R9-2005-0006      Discharge  
 Report Freq : Monthly      Collected By : Songs Envir Grp  
 Report For : June 2007      Analyzed By : Songs Envir Grp  
 Report Due : Aug 01, 2007      Signed : *[Signature]*  
 Waste Stream : Makeup Demineralizer      Title : Environmental Engineer  
 (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l lbs/day	GRAB	30-Day Avg	30	< 0.4	6/5/2007
				6.60	< 0.22	12:20 pm
	mg/l lbs/day	GRAB	Daily Max	100	< 0.4	6/5/2007
				21.73	< 0.09	12:20 pm
Grease and Oil	mg/l lbs/day	GRAB	30-Day Avg	15	< 1.8	6/5/2007
				3.26	< 1.00	12:20 pm
	mg/l lbs/day	GRAB	Daily Max	20	< 1.8	6/5/2007
				4.27	< 0.39	12:20 pm

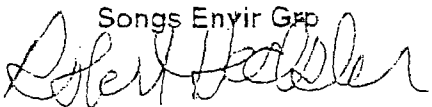


## Southern California Edison Monthly Report

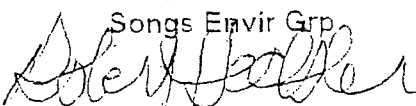
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Facility : Songs Unit 3      Exact Sample Point : Point of  
Order No : R9-2005-0006      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : RadWaste System      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 0.4	6/22/2007
	lbs/day			0.25	< 0.01	10:04 am
	mg/l	GRAB	Daily Max	100	< 0.4	6/22/2007
	lbs/day			0.83	< 0.01	10:04 am
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 1.8	6/22/2007
	lbs/day			0.13	< 0.04	10:04 am
	mg/l	GRAB	Daily Max	20	< 1.8	6/22/2007
	lbs/day			0.17	< 0.02	10:04 am

Facility : Songs Unit 3      Exact Sample Point : Point of  
 Order No : R9-2005-0006      Discharge  
 Report Freq : Monthly      Collected By : Songs Envir Grp  
 Report For : June 2007      Analyzed By : Songs Envir Grp  
 Report Due : Aug 01, 2007      Signed :   
 Waste Stream : Intake Structure      Title : Environmental Engineer  
                          Sump (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 0.4	6/6/2007
	lbs/day			17.50	< 0.23	09:50 am
	mg/l	GRAB	Daily Max	100	< 0.4	6/6/2007
	lbs/day			58.33	< 0.23	09:50 am
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 1.8	6/6/2007
	lbs/day			8.75	< 1.05	09:43 am
	mg/l	GRAB	Daily Max	20	< 1.8	6/6/2007
	lbs/day			11.67	< 1.05	09:43 am

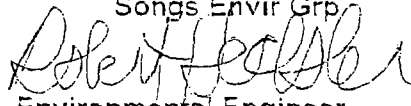
Facility : Songs Unit 3      Exact Sample Point : Point of  
Order No : R9-2005-0006      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Plant Drains      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

\* Discharged to Unit 2 Outfall

## Southern California Edison Monthly Report

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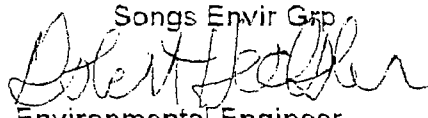
Facility : Songs Unit 3      Exact Sample Point : Point of  
Order No : R9-2005-0006      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Concrete Cutting Water      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

\* NO FLOW IN JUNE 2007

## Southern California Edison Monthly Report

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Facility : Songs Unit 3      Exact Sample Point : Point of  
Order No : R9-2005-0006      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Unit 1 Radwaste      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

\* NO FLOW IN JUNE 2007

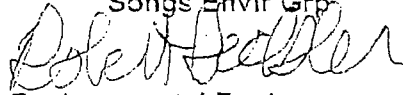
## Southern California Edison Monthly Report

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Facility : Songs Unit 3      Exact Sample Point : Point of  
Order No : R9-2005-0006      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Unit 1 Yards Drains      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	1.2	6/28/2007
	lbs/day			0.25	0.01	02:58 pm
	mg/l	GRAB	Daily Max	100	1.2	6/28/2007
	lbs/day			0.83	0.01	02:58 pm
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 1.8	6/28/2007
	lbs/day			0.13	< 0.01	02:58 pm
	mg/l	GRAB	Daily Max	20	< 1.8	6/28/2007
	lbs/day			0.16	< 0.02	02:58 pm

# Southern California Edison Monthly Report

Facility : Songs Unit 3      Exact Sample Point : Point of  
 Order No : R9-2005-0006      Discharge  
 Report Freq : Monthly      Collected By : Songs Envir Grp  
 Report For : June 2007      Analyzed By : Songs Envir Grp  
 Report Due : Aug 01, 2007      Signed :   
 Waste Stream : Unit 1 Dewatering  
 (Low Volume Waste)      Title : Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	1.3	6/28/2007
	lbs/day			852.27	3.69	02:50 pm
	mg/l	GRAB	Daily Max	100	1.3	6/28/2007
	lbs/day			2810.67	36.86	02:50 pm
Grease and Oil	mg/l	GRAB	30-Day Avg	15	2.8	6/28/2007
	lbs/day			426.13	7.94	02:42 pm
	mg/l	GRAB	Daily Max	20	2.8	6/28/2007
	lbs/day			571.20	79.40	02:42 pm

Facility : Songs Unit 3      Exact Sample Point : Point of  
 Order No : R9-2005-0006      Discharge  
 Report Freq : Monthly      Collected By : Songs Envir Grp  
 Report For : June 2007      Analyzed By : Songs Chemistry  
 Report Due : Aug 01, 2007      Signed : *[Signature]*  
 Waste Stream : Sewage Treatment      Title : Environmental Engineer

			<u>Daily Max</u>		<u>Monthly Avg</u>	
Units	Sample Type	Date/Time of Sample	Sample Value	Req't Value	Sample Value	Req Value
<u>Sewage - - Unit 1</u>						
Inf T.S.S	mg/l lbs/day	GRAB		--		--
				--		--
EFF G&O	mg/l lbs/day	GRAB		75		25
				63		21
EFF T.S.S	mg/l lbs/day	GRAB				
Sett. Solids	ml/l	GRAB		3.0		1.0
pH	Units	GRAB		6.0 - 9.0		6.0 - 9.0
Turbidity	NTU	GRAB		225		75
<u>Sewage - - Mesa</u>						
Inf T.S.S	mg/l lbs/day	GRAB	*	--	*	--
				--		--
EFF G&O	mg/l lbs/day	GRAB		75		25
			*	63	*	21
EFF T.S.S	mg/l lbs/day	GRAB		0.0		0.0
			*		*	
Sett. Solids	ml/l	GRAB		3.0		1.0
pH	Units	GRAB		6.0 - 9.0		6.0 - 9.0
Turbidity	NTU	GRAB		225		75

Sewage Treatment Discharged To Unit 2 Outfall

\*Mesa Sewage Treated at Unit 1 Sewage Treatment Plant



## June 2007 In-Plant Waste Flows

### Unit 2

HFMUD (002-D)	2,123,000 gal
FFCPD (002-F)	1,446,000 gal
Intake Sump (002-J)	2,100,000 gal
Building Sump (002-I)	1,500,000 gal
S/G Blowdown (002-G)	0 gal
Hotwell Overboard (002-H)	380,000 gal
Metal Cleaning (002-A, 002-B)	0 gal
BPS Sump (002-C)	0 gal
U2 Radwaste (002-E)	0 gal
Concrete Cooling Water (002-K)	0 gal
U1 Radwaste (001-D)	0 gal
U1 Yard Drain Sump (001-E)	27,000 gal
Dewatering (001-F)	91,800,000 gal
U1 Sewage Treatment Plant (001-A)	960,000 gal

### Unit 2 Discharge Across the Beach

Start: 6/30/07 15:00 Stop: 6/30/07 23:15 Flow: 14,000 gpm Volume Discharged: 6.93 MG

### Unit 3

HFMUD (003-D)	1,998,000 gal
FFCPD (003-F)	1,456,000 gal
Intake Sump (003-J)	2,100,000 gal
Building Sump (003-I)	0 gal

S/G Blowdown (003-G)	0 gal
Hotwell Overboard (003-H)	0 gal
Metal Cleaning (003-A, 003-B)	0 gal
BPS Sump (003-C)	0 gal
U3 Radwaste (003-E)	0 gal
Concrete Cooling Water (003-K)	0 gal
U1 Radwaste (001-D)	0 gal
U1 Yard Drain Sump (001-E)	3,000 gal
Dewatering (001-F)	10,200,000 gal
U1 Sewage Treatment Plant (001-A)	0 gal

Unit 3 Discharge Across the Beach

Start: 6/02/07 14:55 Stop: 6/30/07 22:25 Flow: 14,000 gpm Volume Discharged: 6.30 MG

### Chlorine Sample Calculations

San Onofre Units 2 and 3 normally chlorinate six times per day for each unit at a duration of 18 minutes. The instantaneous limit for total residual chlorine is therefore calculated using the equation in the NPDES permits for each unit under discharge specification B.1 as follows:

$$\log y = -0.43(\log x) + 1.8$$

Where y = the water quality objective (in ug/l) to apply when chlorine/bromine is being discharged

x = the duration of uninterrupted chlorine/bromine discharge in minutes

The result of the above formula must be multiplied by a dilution factor to arrive at the time weighted effluent discharge limit. In the case of San Onofre Units 2 and 3, this dilution factor equals 11.

The USEPA BAT effluent limitation contained in 40 CFR 423 is 0.20 mg/l.

**To obtain the instantaneous limit under discharge specification B.1 for San Onofre Units 2 and 3, you can calculate as follows:**

$$\log y = -0.43(\log 18) + 1.8$$

$$y = 0.2 \text{ mg/l}$$

$$\text{The MER limit (lb/day)} = 8.34 \times C \times Q \times Z/24$$

where C = effluent concentration limit as calculated above (mg/l)

Q = discharge flowrate (MGD)

Z = total time (hours of chlorine/bromine is discharged per day)

**For Unit 2 in the month of June 2007, the limit would be calculated as follows:**

$$\text{MER limit (lbs/day)} = 8.34(0.10)(1218.820)(2/24) = 84.71 \text{ lb/day (for sample on 6/07/07)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.10)(1218.740)(2/24) = 84.71 \text{ lb/day (for sample on 6/12/07)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.04)(1218.884)(2/24) = 33.88 \text{ lb/day (for sample on 6/19/07)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.09)(1218.894)(2/24) = 76.24 \text{ lb/day (for sample on 6/26/07)}$$

For Unit 3 in the month of June 2007, the limit would be calculated as follows:

$$\text{MER limit (lbs/day)} = 8.34(0.20)(1218.682)(2/24) = 169.40 \text{ lb/day (for sample on 6/05/07)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.02)(1218.656)(2/24) = 16.94 \text{ lb/day (for second sample on 6/05/07)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.07)(1218.656)(2/24) = 59.29 \text{ lb/day (for sample on 6/07/07)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.07)(1218.767)(2/24) = 59.29 \text{ lb/day (for sample on 6/12/07)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.06)(1218.855)(2/24) = 50.83 \text{ lb/day (for sample on 6/15/07)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.05)(1218.714)(2/24) = 42.35 \text{ lb/day (for sample on 6/19/07)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.10)(1218.876)(2/24) = 84.71 \text{ lb/day (for sample on 6/26/07)}$$

Tide

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Sun

Tide

## Tides for San Clemente starting with June 1, 2007.

Day		High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon Time	% Moon Visible
F	1	Low	4:22 AM	-0.7	5:42 AM	Set 5:48 AM	99
	1	High	10:49 AM	3.3	7:55 PM	Rise 9:07 PM	
	1	Low	3:10 PM	2.2			
	1	High	9:29 PM	5.8			
Sa	2	Low	5:00 AM	-0.7	5:41 AM	Set 6:40 AM	99
	2	High	11:32 AM	3.3	7:56 PM	Rise 10:00 PM	
	2	Low	3:42 PM	2.3			
	2	High	10:03 PM	5.7			
Su	3	Low	5:41 AM	-0.6	5:41 AM	Set 7:40 AM	96
	3	High	12:19 PM	3.2	7:56 PM	Rise 10:48 PM	
	3	Low	4:18 PM	2.5			
	3	High	10:41 PM	5.6			
M	4	Low	6:25 AM	-0.6	5:41 AM	Set 8:43 AM	91
	4	High	1:11 PM	3.2	7:57 PM	Rise 11:28 PM	
	4	Low	5:04 PM	2.6			
	4	High	11:24 PM	5.3			
Tu	5	Low	7:11 AM	-0.4	5:41 AM	Set 9:49 AM	85
	5	High	2:06 PM	3.4	7:57 PM		
	5	Low	6:09 PM	2.7			
W	6	High	12:15 AM	5.0	5:41 AM	Rise 12:04 AM	76
	6	Low	8:00 AM	-0.2	7:58 PM	Set 10:55 AM	
	6	High	2:59 PM	3.6			
	6	Low	7:39 PM	2.7			
Th	7	High	1:20 AM	4.5	5:40 AM	Rise 12:35 AM	67
	7	Low	8:50 AM	0.1	7:58 PM	Set 12:00 PM	
	7	High	3:48 PM	4.0			
	7	Low	9:18 PM	2.4			
F	8	High	2:42 AM	4.0	5:40 AM	Rise 1:05 AM	56
	8	Low	9:40 AM	0.4	7:59 PM	Set 1:06 PM	
	8	High	4:32 PM	4.5			
	8	Low	10:47 PM	1.8			
Sa	9	High	4:13 AM	3.6	5:40 AM	Rise 1:33 AM	45
	9	Low	10:31 AM	0.7	7:59 PM	Set 2:13 PM	
	9	High	5:14 PM	5.1			
Su	10	Low	12:00 AM	1.0	5:40 AM	Rise 2:03 AM	33
	10	High	5:41 AM	3.4	8:00 PM	Set 3:21 PM	
	10	Low	11:20 AM	1.1			
	10	High	5:56 PM	5.6			

M	11	Low	1:00 AM	0.1	5:40 AM	Rise	2:36 AM	23
	11	High	6:58 AM	3.4	8:00 PM	Set	4:33 PM	
	11	Low	12:06 PM	1.4				
	11	High	6:38 PM	6.1				
Tu	12	Low	1:53 AM	-0.6	5:40 AM	Rise	3:13 AM	14
	12	High	6:06 AM	3.5	8:00 PM	Set	5:47 PM	
	12	Low	12:58 PM	1.7				
	12	High	7:21 PM	6.5				
W	13	Low	2:42 AM	-1.2	5:40 AM	Rise	3:58 AM	6
	13	High	9:04 AM	3.6	8:01 PM	Set	7:01 PM	
	13	Low	1:46 PM	1.8				
	13	High	8:06 PM	6.7				
Th	14	Low	3:30 AM	-1.5	5:40 AM	Rise	4:51 AM	2
	14	High	9:58 AM	3.7	8:01 PM	Set	8:11 PM	
	14	Low	2:34 PM	1.9				
	14	High	8:51 PM	6.8				

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## Tides for San Clemente starting with June 15, 2007.

Day		High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon Time	% Moon Visible
F	15	Low	4:16 AM	-1.6	5:40 AM	Rise 5:53 AM	0
	15	High	10:48 AM	3.7	8:02 PM	Set 9:12 PM	
	15	Low	3:22 PM	2.0			
	15	High	9:36 PM	6.6			
Sa	16	Low	5:02 AM	-1.5	5:40 AM	Rise 7:00 AM	0
	16	High	11:37 AM	3.7	8:02 PM	Set 10:04 PM	
	16	Low	4:11 PM	2.1			
	16	High	10:22 PM	6.3			
Su	17	Low	5:48 AM	-1.2	5:40 AM	Rise 8:09 AM	4
	17	High	12:26 PM	3.7	8:02 PM	Set 10:45 PM	
	17	Low	5:02 PM	2.2			
	17	High	11:08 PM	5.9			
M	18	Low	6:33 AM	-0.7	5:41 AM	Rise 9:16 AM	9
	18	High	1:15 PM	3.8	8:03 PM	Set 11:19 PM	
	18	Low	5:58 PM	2.4			
	18	High	11:55 PM	5.3			
Tu	19	Low	7:17 AM	-0.3	5:41 AM	Rise 10:19 AM	16
	19	High	2:06 PM	3.8	8:03 PM	Set 11:48 PM	
	19	Low	7:02 PM	2.5			
W	20	High	12:46 AM	4.7	5:41 AM	Rise 11:18 AM	25
	20	Low	8:01 AM	0.2	8:03 PM		
	20	High	2:57 PM	4.0			
	20	Low	8:19 PM	2.5			
Th	21	High	1:43 AM	4.0	5:41 AM	Set 12:14 AM	34
	21	Low	8:44 AM	0.6	8:03 PM	Rise 12:15 PM	
	21	High	3:45 PM	4.1			
	21	Low	9:46 PM	2.3			
F	22	High	2:54 AM	3.4	5:41 AM	Set 12:38 AM	44
	22	Low	9:27 AM	1.1	8:03 PM	Rise 1:10 PM	
	22	High	4:28 PM	4.3			
	22	Low	11:12 PM	1.8			
Sa	23	High	4:21 AM	3.0	5:42 AM	Set 1:02 AM	53
	23	Low	10:10 AM	1.6	8:04 PM	Rise 2:05 PM	
	23	High	5:08 PM	4.6			
Su	24	Low	12:20 AM	1.4	5:42 AM	Set 1:26 AM	63
	24	High	5:53 AM	2.9	8:04 PM	Rise 3:01 PM	
	24	Low	10:55 AM	1.9			
	24	High	5:44 PM	4.9			

M	23	Low	1:10 AM	0.8	5:42 AM	Set	1:53 AM	71
	23	High	7:12 AM	2.9	8:04 PM	Rise	3:58 PM	
	23	Low	11:40 AM	2.1				
	23	High	6:20 PM	5.2				
Tu	26	Low	1:50 AM	0.4	5:42 AM	Set	2:24 AM	80
	26	High	8:11 AM	3.0	8:04 PM	Rise	4:58 PM	
	26	Low	12:25 PM	2.3				
	26	High	6:53 PM	5.4				
W	27	Low	2:26 AM	-0.1	5:43 AM	Set	2:59 AM	87
	27	High	8:55 AM	3.2	8:04 PM	Rise	5:58 PM	
	27	Low	1:08 PM	2.4				
	27	High	7:31 PM	5.6				
Th	28	Low	3:01 AM	-0.5	5:43 AM	Set	3:42 AM	92
	28	High	9:31 AM	3.3	8:04 PM	Rise	6:57 PM	
	28	Low	1:48 PM	2.4				
	28	High	8:07 PM	5.9				

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Sun

Tide



Tide

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Sun

Tide

## Tides for San Clemente starting with June 29, 2007.

Day		High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon Time	% Moon Visible
F	29	Low	3:35 AM	-0.6	5:44 AM	Set 4:32 AM	97
	29	High	10:05 AM	3.5	8:04 PM	Rise 7:53 PM	
	29	Low	2:27 PM	2.3			
	29	High	8:44 PM	6.1			
Sa	30	Low	4:10 AM	-0.8	5:44 AM	Set 5:30 AM	99
	30	High	10:40 AM	3.5	8:04 PM	Rise 8:44 PM	
	30	Low	3:05 PM	2.3			
	30	High	9:21 PM	6.2			

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July 27, 2007

Mr. John Robertus  
California Regional Water Quality Control Board  
San Diego Region  
9174 Sky Park Ct. Suite 100  
San Diego, California 92123  
IC: 13-0086.01

SUBJECT: NPDES June 2007 Discharge Monitoring Report  
San Onofre Nuclear Generating Station, Unit 2

Dear Mr. Robertus:

SCE submits the subject report in accordance with the requirements of Order No. R9-2005-0005 (NPDES Permit No. CA0108073). All sampled water sources were found to be within permit limits with the following exception.

On 6/13/07, a sample obtained on the Unit 1 Sewage Treatment Plant effluent indicated a pH of 4.34. This is below the low limit pH level of 6.0 required in the Unit 2 NPDES Permit. The suspected cause of the low pH event was decanted water from the non-operating south side of the plant discharging from the plant to the Unit 2 outfall during a regularly scheduled wasting event from the north side of the plant which was in operation at the time. During a wasting operation, the operating plant is not discharging. So with a decant on the non-operating side occurring at the same time, most or all of the water being discharged during the time of sampling came from the non-operating south side which would have been below a pH of 6.0 or less. A sample obtained on 6/22/07 later showed that the Unit 1 Sewage Treatment Plant was verified to be within limits at 6.95. A review of the operating conditions and records show that the pH of the plant was below 6.0 for about ten minutes.

To prevent reoccurrence, the following action has been taken. A submersible pump has been installed that directs all clear decant from the South Train to the North Train clarifier where it is blended and pH adjusted prior to discharge. This should prevent this event from occurring again in the future.

Pursuant to Order No. R9-2005-0005, State and Federal Standard Provisions, Section E, the following representative has prepared and is authorized to sign the reports required by this order: Robert K. Heckler, Environmental Engineer.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate



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and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

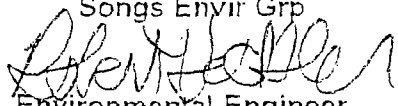
A handwritten signature in black ink, appearing to read 'H. W. Newton', written over a horizontal line.

H. W. Newton  
Manager, Site Support Services

Enclosure

cc: Environmental Protection Agency, Region IX  
State Water Resources Control Board

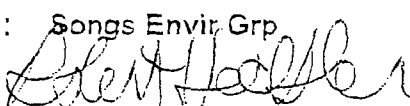
bcc: J. Reilly  
H. W. Newton/M. J. Johnson - w/o enclosure  
D. Kay  
M. Hunter - w/o enclosure  
C. Williams  
CDM Files  
IDB - NPDES/R. K. Heckler

Facility : Songs Unit 2      Exact Sample Point : Intake and  
 Order No : R9-2005-0005      Discharge Conduits  
 Report Freq : Monthly      Collected By : Songs Envir Grp  
 Report For : June 2007      Analyzed By : Songs Envir Grp  
 Report Due: Aug 01, 2007      Signed :   
 Waste Stream : Water Intake and      Title : Environmental Engineer  
                          Combined Discharge

PARAMETER: Temperature Difference (degrees Fahrenheit) = Temperature  
 at Combined Discharge Minus Temperature at Water Intake

Date	Combined Discharge	Water Intake		Daily Avg Diff	Daily Max Difference
	Avg	Avg	Max		
6-1-07	81	61	62	20	21
6-2-07	81	61	62	20	21
6-3-07	82	62	63	20	21
6-4-07	82	62	62	20	20
6-5-07	82	62	63	20	21
6-6-07	83	63	63	20	24
6-7-07	83	63	64	20	21
6-8-07	84	64	65	20	20
6-9-07	85	65	66	20	20
6-10-07	85	65	66	20	20
6-11-07	86	66	67	20	20
6-12-07	86	69	86	16	20
6-13-07	85	66	66	20	20
6-14-07	85	65	66	20	20
6-15-07	85	66	67	19	20
6-16-07	69	67	67	2	9
6-17-07	69	66	68	3	6
6-18-07	79	66	68	13	20
6-19-07	87	67	67	20	20
6-20-07	83	63	64	20	20
6-21-07	64	63	65	1	1
6-22-07	65	64	64	1	1
6-23-07	65	64	64	1	1
6-24-07	65	64	64	1	1
6-25-07	65	64	64	1	1
6-26-07	65	64	64	1	1
6-27-07	65	64	64	1	1
6-28-07	65	64	64	1	1
6-29-07	76	64	64	12	19
6-30-07	89	65	66	25	56 *
Avg	77	64	66	13	15
Reqt	--	--	--	25	25

\* Heat Treatment Occured : Jun 30, 2007

Facility : Songs Unit 2      Exact Sample Point : Intake and Screenwell  
 Order No : R9-2005-0005  
 Report Freq : Monthly      Collected By : Instrumentation  
 Report For : June 2007      Analyzed By : Songs Envir Grp  
 Report Due : Aug 01, 2007  
 Report Topic : Intake Conduit and Screenwell Heat Treatment  
 Signed :   
 Title : Environmental Engineer


Intake and Screenwell Heat Treatment Occured This Month.

PARAMETER	UNITS	REQUIREMENT	RESULT
Date/Time Treatment Began	--	--	6/30/2007 08:50 pm
Date/Time Treatment Ended	--	--	6/30/2007 10:15 pm
Total Time of Treatment	hours	--	1.42
Maximum Screenwell Temperature Attained (Screenwell Target Temperature)	degr F	* 100	101
Screenwell Target Temp Duration	hours	* 2.1	1.4

Following Section only Completed if Screenwell Target Temperature was Exceeded.

Maximum Screenwell Temperature Attained	degr F	--	N/A
Degrees Above Screenwell Target Temperature	degr F	10	N/A
Maximum Screenwell Temp Duration	min	15	N/A

\* Value Varies (From the Mussel Mortality Graph)

Facility : Songs Unit 2      Exact Sample Point : Intake and Screenwell  
 Order No : R9-2005-0005  
 Report Freq : Monthly      Collected By : Instrumentation  
 Report For : June 2007      Analyzed By : Songs Envir Grp  
 Report Due : Aug 01, 2007  
 Report Topic : Intake Conduit and Screenwell Heat Treatment  
 Signed :   
 Title : Environmental Engineer

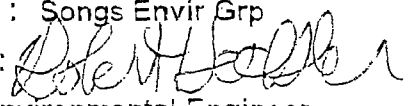
Intake and Screenwell Heat Treatment Occured This Month.

PARAMETER	UNITS	REQUIREMENT	RESULT
Maximum Intake Conduit Temperature Attained (Intake Conduit Target Temperature)	degr F	125	123
Screenwell Target Temp Duration	hours	* 2.1	1.4

Following Section only Completed if Intake Target Temperature was exceeded.

Maximum Intake Conduit Temperature Attained	degr F	--	N/A
Degrees Above Intake Conduit Target Temperature	degr F	10	N/A
Maximum Intake Conduit Temp Duration (Minutes)	min	15	N/A

\* Value Varies (From the Mussel Mortality Curve)

Facility :	Songs Unit 2	Exact Sample Point :	Discharge Conduit
Order No :	R9-2005-0005		
Report Freq :	Monthly	Collected By :	Instrumentation
Report For :	June 2007	Analyzed By :	Songs Envir Grp
Report Due :	Aug 01, 2007	Signed :	
Report Topic :	Discharge Conduit Heat Treatment	Title :	Environmental Engineer

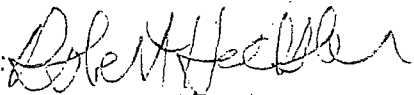
Discharge and Screenwell Heat Treatment Occured This Month.

PARAMETER	UNITS	REQUIREMENT	RESULT
Date/Time Treatment Began	--	--	04:15 pm 6/30/2007
Date/Time Treatment Ended	--	--	04:40 pm 6/30/2007
Total Time of Treatment	hours	--	0.42
Maximum Discharge Conduit Temperature Attained (Discharge Conduit Target Temperature)	degr F	* 105	103

Following Section only Completed if Screenwell Target Temperature was Exceeded.

Maximum Screenwell Temperature Attained	degr F	--	N/A
Degrees Above Screenwell Target Temperature	degr F	10	N/A
Maximum Screenwell Temp Duration	min	15	N/A

\* Value Varies (From the Mussel Mortality Graph)

Facility : Songs Unit 2      Exact Sample Point : Points of Discharge  
 Order No : R9-2005-0005  
 Report Freq : Monthly      Collected By : Songs Envir Grp  
 Report For : June 2007      Analyzed By : Songs Envir Grp  
 Report Due : Aug 01, 2007  
 Waste Stream : Combined Discharge      Signed :   
                          Low Volume Waste      Title : Environmental Engineer

Parameter : Flow Rate

Units : Million Gallons per Day (MGD)

Date	Combined Discharge	Circ Water Intake	Total Low Volume Waste	Total Sewage Treatment	In Plant Waste
1	1,218.799	1,218.586	0.169	0.044	0.213
2	1,218.980	1,218.586	0.379	0.015	0.394
3	1,218.746	1,218.586	0.154	0.006	0.160
4	1,218.919	1,218.586	0.314	0.019	0.333
5	1,218.888	1,218.586	0.250	0.052	0.302
6	1,218.837	1,218.586	0.210	0.041	0.251
7	1,218.820	1,218.586	0.213	0.021	0.234
8	1,218.843	1,218.586	0.227	0.030	0.257
9	1,218.836	1,218.586	0.120	0.130	0.250
10	1,218.937	1,218.586	0.343	0.008	0.351
11	1,218.817	1,218.586	0.211	0.020	0.231
12	1,218.740	1,218.586	0.120	0.034	0.154
13	1,218.742	1,218.586	0.120	0.036	0.156
14	1,218.941	1,218.586	0.326	0.029	0.355
15	1,218.844	1,218.586	0.206	0.052	0.258
16	1,218.806	1,218.586	0.204	0.016	0.220
17	1,219.046	1,218.586	0.442	0.018	0.460
18	1,218.929	1,218.586	0.310	0.033	0.343
19	1,218.884	1,218.586	0.270	0.028	0.298
20	1,218.852	1,218.586	0.241	0.025	0.266
21	1,218.929	1,218.586	0.307	0.036	0.343
22	1,219.070	1,218.586	0.442	0.042	0.484
23	1,218.842	1,218.586	0.237	0.019	0.256
24	1,218.828	1,218.586	0.234	0.008	0.242
25	1,218.838	1,218.586	0.222	0.030	0.252
26	1,218.894	1,218.586	0.282	0.026	0.308
27	1,219.036	1,218.586	0.407	0.043	0.450
28	1,218.896	1,218.586	0.270	0.040	0.310
29	1,218.870	1,218.586	0.245	0.039	0.284
30	1,218.792	1,218.586	0.190	0.016	0.206
Avg	1,218.873	1,218.586	0.256	0.032	0.287
Reqt	1286.900		11.610	0.145	

Sewage Treatment Discharged To Unit 2 Outfall



Facility : Songs Unit 2  
Order No : R9-2005-0005  
Report Freq : Monthly  
Report For : June 2007  
Report Due : Aug 01, 2007  
Waste Stream : Cooling Water Intake

Exact Sample Point : Intake and  
Discharge Conduits

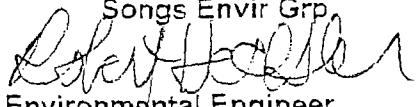
Collected By : Songs Envir Grp

Analyzed By : Songs Envir Grp

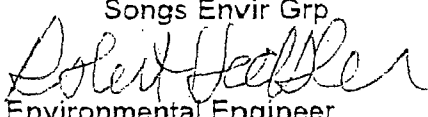
Signed :

Title : Environmental Engineer

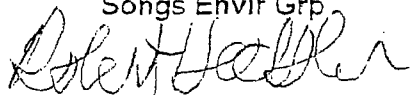
Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
pH	--	GRAB	--	--	8.2	6/13/2007 10:40 am
Turbidity	NTU	GRAB	--	--	2.5	6/13/2007 10:40 am

Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Combined Discharge      Title : Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Turbidity	NTU	GRAB	--	--	1.5	6/13/07 10:42 am
pH	--	GRAB	--	6 - 9	8.2	6/13/07 10:42 am
Hydrazine	ug/l	GRAB	Inst Max	--	< 4.0	6/16/07
	lbs/day			--	< 40.7	06:25 am
Total Chlorine Residual	ug/l	GRAB	Inst Max	200	100.0	6/07/07
	lbs/day			2100	42.4	10:40 am
	ug/l	GRAB	Daily Max	88	8	6/07/07
	lbs/day			940	3.4	10:40 am
	ug/l	GRAB	6-MO Median	22	1	6/07/07 10:40 am

Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Hotwell Overboard      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	0.4	6/16/2007
	lbs/day			21.00	0.06	05:30 am
	mg/l	GRAB	Daily Max	100	0.4	6/16/2007
	lbs/day			70.00	0.28	05:30 am
Grease and Oil	mg/l	GRAB	30-Day Avg	15	1.9	6/16/2007
	lbs/day			10.50	0.26	05:30 am
	mg/l	GRAB	Daily Max	20	1.9	6/16/2007
	lbs/day			14.00	1.3	05:30 am

Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Steam Generator      Title : Environmental Engineer  
Blowdown (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

## Southern California Edison Monthly Report

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Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed : *Robert H. Miller*  
Waste Stream : Blowdown Processing      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

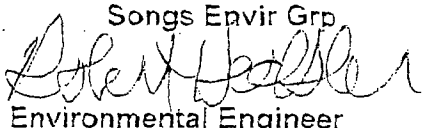
\* NO FLOW IN JUNE 2007

## Southern California Edison Monthly Report

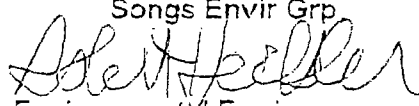
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Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Polishing Demineralizer      Title : Environmental Engineer  
System (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 0.4	6/5/2007
	lbs/day			26.00	< 0.16	10:55 am
	mg/l	GRAB	Daily Max	100	< 0.4	6/5/2007
	lbs/day			89.14	< 0.35	12:20 pm
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 1.8	6/5/2007
	lbs/day			13.37	< 0.72	09:35 am
	mg/l	GRAB	Daily Max	20	< 1.8	6/5/2007
	lbs/day			17.09	< 1.56	09:35 am

Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Makeup Demineralizer      Title : Environmental Engineer  
(Low Volume Waste)

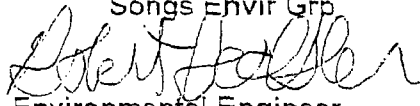
Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l lbs/day	GRAB	30-Day Avg	30	< 0.4	6/5/2007
				6.60	< 0.24	12:20 pm
	mg/l lbs/day	GRAB	Daily Max	100	< 0.4	6/5/2007
				21.73	< 0.09	12:20 pm
Grease and Oil	mg/l lbs/day	GRAB	30-Day Avg	15	< 1.8	6/5/2007
				3.26	< 1.06	12:20 pm
	mg/l lbs/day	GRAB	Daily Max	20	< 1.8	6/5/2007
				4.27	< 0.39	12:20 pm

Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : RadWaste System      Title : Environmental Engineer  
(Low Volume Waste)

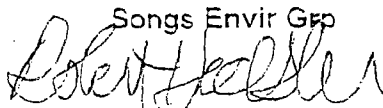
Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

\* DISCHARGED TO UNIT 3 OUTFALL



Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Intake Structure      Title : Environmental Engineer  
                 Sump (Low Volume Waste)

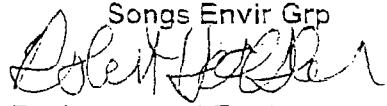
Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l lbs/day	GRAB	30-Day Avg	30	< 0.4	6/13/2007
				17.50	< 0.23	08:39 am
	mg/l lbs/day	GRAB	Daily Max	100	< 0.4	6/13/2007
				58.33	< 0.23	08:39 am
Grease and Oil	mg/l lbs/day	GRAB	30-Day Avg	15	< 1.8	6/13/2007
				8.75	< 1.05	08:52 am
	mg/l lbs/day	GRAB	Daily Max	20	< 1.8	6/13/2007
				11.67	< 1.05	08:52 am

Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Plant Drains      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l lbs/day	GRAB	30-Day Avg	30	7.9	6/20/2007
				12.50	3.29	06:40 am
	mg/l lbs/day	GRAB	Daily Max	100	7.9	6/20/2007
				41.88	3.29	06:40 am
Grease and Oil	mg/l lbs/day	GRAB	30-Day Avg	15	6.5	6/20/2007
				6.25	2.71	06:40 am
	mg/l lbs/day	GRAB	Daily Max	20	6.5	6/20/2007
				8.13	2.71	06:40 am

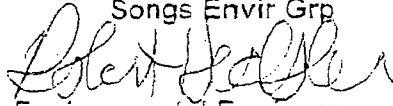
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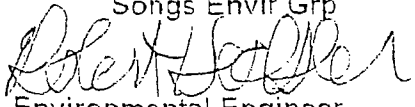
Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Concrete Cutting Water      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

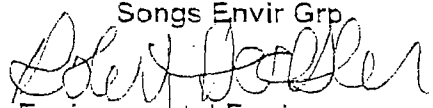
\* NO FLOW IN JUNE 2007

Facility : Songs Unit 2 Exact Sample Point : Point of  
 Order No : R9-2005-0005 Discharge  
 Report Freq : Monthly Collected By : Songs Envir Grp  
 Report For : June 2007 Analyzed By : Songs Envir Grp  
 Report Due : Aug 01, 2007 Signed :   
 Waste Stream : Unit 1 Radwaste Title : Environmental Engineer  
 (Low Volume Waste)

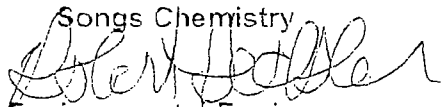
Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	100		
	lbs/day			0.00	*	*
Grease and Oil	mg/l	GRAB	30-Day Avg	15		
	lbs/day			0.00	*	*
	mg/l	GRAB	Daily Max	20		
	lbs/day			0.00	*	*

Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Unit 1 Yards Drains      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 0.4	6/1/2007
	lbs/day			0.25	< 0.01	08:20 am
	mg/l	GRAB	Daily Max	100	< 0.4	6/1/2007
	lbs/day			0.83	< 0.01	08:20 am
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 1.8	6/1/2007
	lbs/day			0.13	< 0.01	08:20 am
	mg/l	GRAB	Daily Max	20	< 1.8	6/1/2007
	lbs/day			0.16	< 0.02	08:20 am

Facility : Songs Unit 2      Exact Sample Point : Point of  
Order No : R9-2005-0005      Discharge  
Report Freq : Monthly      Collected By : Songs Envir Grp  
Report For : June 2007      Analyzed By : Songs Envir Grp  
Report Due : Aug 01, 2007      Signed :   
Waste Stream : Unit 1 Dewatering      Title : Environmental Engineer  
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 0.4	6/1/2007
	lbs/day			852.27	< 10.32	08:25 am
	mg/l	GRAB	Daily Max	100	< 0.4	6/1/2007
	lbs/day			2810.67	< 11.34	08:25 am
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 1.8	6/1/2007
	lbs/day			426.13	< 46.44	08:25 am
	mg/l	GRAB	Daily Max	20	< 1.8	6/1/2007
	lbs/day			571.20	< 51.04	08:25 am

Facility :	Songs Unit 2	Exact Sample Point :	Point of
Order No :	R9-2005-0005		Discharge
Report Freq :	Monthly	Collected By :	Songs Envir Grp
Report For :	June 2007	Analyzed By :	Songs Chemistry
Report Due :	Aug 01, 2007	Signed :	
Waste Stream :	Sewage Treatment	Title :	Environmental Engineer

		Inst Max			30-Day Avg		
Units	Sample Type	Date/Time of Sample	Sample Value	Req't Value	Sample Value	Req Value	
<u>Sewage - - Unit 1</u>							
Inf	mg/l	14:59	534.0	--	534.0	--	
T.S.S	lbs/day	GRAB 6/13/2007	160.3	--	142.5	--	
EFF	mg/l	14:48	2.4	75	2.4	25	
G&O	lbs/day	GRAB 6/13/2007	0.72	63	0.64	21	
EFF	mg/l	14:45	17.0	133.5	17	133.5	
T.S.S	lbs/day	GRAB 6/13/2007	5.1	40.1	4.5	35.6	
Sett. Solids	ml/l	14:45	< 0.1	3.0	< 0.1	1.0	
		6/13/2007					
pH	Units	14:45	4.3	6.0 - 9.0	4.3	6.0 - 9.0	
		6/13/2007					
Turbidity	NTU	14:45	4.7	225	4.7	75	
		6/13/2007					

Sewage - - Mesa

Inf	mg/l			--		--	
T.S.S	lbs/day	GRAB	*	--	*	--	
EFF	mg/l			75		25	
G&O	lbs/day	GRAB	*	63	*	21	
EFF	mg/l						
T.S.S	lbs/day	GRAB	*		*		
Sett. Solids	ml/l	GRAB	*	3.0	*	1.0	
pH	Units	GRAB	*	6.0 - 9.0	*	6.0 - 9.0	
Turbidity	NTU	GRAB	*	225	*	75	

\*Mesa Sewage Treated at Unit 1 Sewage Treatment Plant