

Lehigh Southwest Cement Company

Permanente Plant
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July 15, 2009

Submitted via electronic mail: No hardcopy to follow

Mr. Brian Wines
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Subject: **Self-Monitoring Reports - Sewage Treatment Plant: April 1 to June 30, 2009**

Mr. Wines:

The Lehigh Permanente Cement (formerly Hanson and Kaiser Cement) Wastewater Reclamation Facility's Quarterly Self-Monitoring Report is attached for your information and review. This report follows the Technical Report format as submitted to the Regional Water Quality Control Board on the Kaiser Cement wastewater treatment plant in 1993 and 1994. The following reports are attached:

- Table 1; Schedule for Sampling, Measurements and Analysis.
- Table 3-2: Lehigh Southwest Cement Wastewater Reclamation Measurement & Analysis Results:
 - 4 weeks, April 1 through April 30, 2009 by week.
 - 4 weeks, May 1 through May 31, 2009 by week.
 - 5 weeks June 1 through June 30, 2009 by week
- Alpha Analytical Laboratories Reports: 13 Reports - Weekly
Sampled April 7 through June 30, 2009.

Pursuant to Section III.2.A. of the Self-Monitoring Program included with Order 94-038, the following describes certain variations from the water reclamation requirements that occurred during the reporting periods and actions taken to correct these conditions.

Variations from Requirements of the Self-Monitoring Program:

No variations this month from requirements of the Self-Monitoring Program..

Missing Data:

No Missing Data.

Variations from Water Quality Limits:

Results Outside of Established Limits:

- The Total Coliform levels in the treated wastewater did not exceed the limit of "240 MPN/100 ml for 2 consecutive readings" this quarter. Seven of the 13 coliform

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analysis were reported with total coliform equal to or less than 23. The mean limit of "<23 MPN/100 ml for 7 consecutive readings" was exceeded 12 times during the quarter.

- All other results were within the established limits. In addition, none of the prohibitions listed in Section B or the Order were violated

Variance Explanation:

- We believe that the cause of the variances was due to a failed flow meter and ineffective disinfection.
- The flow meter failed this quarter – due to a power surge at the facility. A new flow meter was ordered and installed in mid June to replace the failed meter.
- The mean limit for coliform was exceeded in early April as a result one high coliform (>1,600 MPN/100ml) reading and a second high reading during the first week of June (>900 MPN/100ml).

Actions Taken to Address Variance:

- The chlorination system is monitored daily to ensure operation. The chemical feed rate is being adjusted upwards to increase chlorine residual. Chlorine tablets are used continuously to provide additional chlorination to the wastewater.
- Use of reclaimed water, in tanker trucks for dust control, has been discontinued until water treatment operations return to normal and stable conditions.

Improvements:

- The replacement flow meter is now functioning well and reflects better measurement of daily flow volumes.
- The flow meter has been installed in a new panel with a power surge protector installed to protect the instrumentation side of the flow meter.

Please contact me at (408) 996-4262 if you have any questions. The reports attached are certified as follows:

"I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed 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. [40 CFR 122.22(d)]"

Sincerely,



Scott Renfrew
Environmental Manager

Attachments

cc: Henrik Wesseling, LSWCC

Table 1

**Schedule for Sampling, Measurements, and Analysis
 Lehigh Permanente Cement Facility – Water Reclamation
 Order No. 94-038**

Sampling Stations	E-1	E-2	All I	All P
<i>Type of Sample</i>	Cont.	Grab	Obs.	Obs.
Flow Rate (gallons/day)	3/w			
Total Coliform (MPN/100 ml)		2/m		
Turbidity (NTU)		W		
BOD, 20°C (mg/l)		2/m		
Total Suspended Solids (mg/l)		2/m		
Dissolved Oxygen (mg/l)		W		
Dissolved Sulfides (mg/l) (if DO < 1 mg/l)		W		
pH (units)		W		
Chlorine Residual (mg/l)		2/m		
Applicable Standard Observations			2/m	2/m

Legend for Table 1

Type of Sample

Grab = Instantaneous grab sample
 Cont. = Continuous monitoring
 Obs. = Observation

Sampling Frequency

3/w = three times per week
 w = weekly
 2/m = twice per month

Prepared By: S. Renfrew
 Date: July 15, 2009

**Table 3-2
 Lehigh Permanente Cement Wastewater Reclamation
 Measurements and Analysis Results
 Sample Locations Station E-1 (continuous) E-2 (grab)**

Sample Type*	Week 1 Date: April 7, 2009	Week 2 Date: April 14, 2009	Week 3 Date: April 21, 2009	Week 4 Date: April 29, 2009	Week 5 Date:
Total Coliform (MPN/100ml, Limit < 23 median for last 7 readings or < 240 for 2 consecutive samples.) 2/month Sample Reading: Median, last 7 Readings:	Time: 14:00	Time: 14:45	Time: 14:20	Time: 14:20	Time:
	2	1600	8	<2	
	23	251	234	234	
Turbidity (NTU) 1/week	12	9.6	6.2	9.4	
BOD, 5-day, 20°C (mg/l, Limit < 30) 2/month	<5	5	<5	<5	
Total Suspended Solids (mg/l, Limit < 30) 2/month	<1	11	6	8	
Dissolved Oxygen (mg/l, Limit > 1.0) 1/week	8.9	9	7.8	8.1	
Dissolved Sulfides (mg/l, Limit < 0.1) 1/week (if DO < 1)	<0.1	<0.1		<0.1	
pH (units, no limits) 1/week	7.7	7.75	7.81	7.86	
Chlorine Residual (mg/l, Limit determined by flow rate) 2/month	<0.1	<0.1	<0.1	0.4	
Flow Rate (gal/min) 3/week	4/7	4/13	4/20	4/27	
	0.6	8.0	0.5	1.0	
Flow Rate (gal/min) 3/week	4/8	4/14	4/21	4/28	
	0.3	0.5	3.0	1.0	
Flow Rate (gal/min) 3/week	4/10	4/15	4/23	4/29	
	1.0	2.0	2.1	0.1	

Distribution: San Francisco Bay California Regional Water Quality Control Board (quarterly), Lehigh Permanente Cement and Environmental Affairs (monthly).

* Lab sheets attached for off-site analysis.



Date Rvw 1/19/10 ~ BDA

Prepared By: S. Renfrew
 Date: July 15, 2009

**Table 3-2
 Lehigh Permanente Cement Wastewater Reclamation
 Measurements and Analysis Results
 Sample Locations Station E-1 (continuous) E-2 (grab)**

Sample Type*	Week 1 Date: May 5, 2009	Week 2 Date: May 12, 2009	Week 3 Date: May 19, 2009	Week 4 Date: May 26, 2009	Week 5 Date:
Total Coliform (MPN/100ml, Limit < 23 median for last 7 readings or < 240 for 2 consecutive samples.) 2/month Sample Reading: Median, last 7 Readings:	Time: 16:00	Time: 14:00	Time: 14:30	Time: 14:30	Time:
	<2	9	110	50	
	233	234	248	254	
Turbidity (NTU) 1/week	3.8	8.7	4	15	
BOD, 5-day, 20°C (mg/l, Limit < 30) 2/month	<5	<5	<5	<5	
Total Suspended Solids (mg/l, Limit < 30) 2/month	3.3	7.7	8.3	14	
Dissolved Oxygen (mg/l, Limit > 1.0) 1/week	8.1	9.6	7.5	10	
Dissolved Sulfides (mg/l, Limit < 0.1) 1/week (if DO < 1)	<0.1	<0.1	<0.1	<1.0	
pH (units, no limits) 1/week	7.57	7.63	7.47	7.92	
Chlorine Residual (mg/l, Limit determined by flow rate) 2/month	1.6	0.5	0.2	0.1	
Flow Rate (gal/min) 3/week	5/4	5/11	5/18	5/26	
	3.0	3.1	1.1	0.5	
Flow Rate (gal/min) 3/week	5/5	5/12	5/19	5/27	
	3.0	2.1	11.0	22	
Flow Rate (gal/min) 3/week	5/6	5/13	5/20	5/29	
	2.2	4.0	0.6	2.0	

Distribution: San Francisco Bay California Regional Water Quality Control Board (quarterly), Lehigh Permanente Cement and Environmental Affairs (monthly).

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Data Row 1/12/10 - BDA



**Table 3-2
 Lehigh Permanente Cement Wastewater Reclamation
 Measurements and Analysis Results
 Sample Locations Station E-1 (continuous) E-2 (grab)**

Sample Type*	Week 1 Date: June 2, 2009	Week 2 Date: June 9, 2009	Week 3 Date: June 16, 2009	Week 4 Date: June 23, 2009	Week 5 Date: June 30, 2009
Total Coliform (MPN/100ml, Limit < 23 median for last 7 readings or < 240 for 2 consecutive samples.) 2/month Sample Reading: Median, last 7 Readings:	Time: 15:10	Time: 14:20	Time: 16:40	Time: 14:25	Time: 14:25
	900	50	<2	50	<2
	154	160	160	167	166
Turbidity (NTU) 1/week	2.6	4.4	3.9	5.4	5.2
BOD, 5-day, 20°C (mg/l, Limit < 30) 2/month	<5	<5	<5	<5	5
Total Suspended Solids (mg/l, Limit < 30) 2/month	1.8	3.2	3.1	6.1	3.1
Dissolved Oxygen (mg/l, Limit > 1.0) 1/week	10	9.5	9.5	9.0	8.6
Dissolved Sulfides (mg/l, Limit < 0.1) 1/week (if DO < 1)	<0.1	<0.1	<0.1	<0.1	<0.1
pH (units, no limits) 1/week	7.34	7.44	7.62	7.4	7.57
Chlorine Residual (mg/l, Limit determined by flow rate) 2/month	0.8	0.1	0.1	0.2	0.2
Flow Rate (gal/min) 3/week	6/1	6/8	6/16	6/22	6/29
	3.3	4.2	3.3	3.3	3.3
Flow Rate (gal/min) 3/week	6/2	6/9	6/17	6/23	6/30
	3.3	3.3	4.2	3.3	3.3
Flow Rate (gal/min) 3/week	6/3	6/10	6/18	6/26	
	3.3	5.6	3.3	3.3	

Distribution: San Francisco Bay California Regional Water Quality Control Board (quarterly), Lehigh Permanente Cement and Environmental Affairs (monthly).

* Lab sheets attached for off-site analysis.

Data Review 1/19/10 - BDL

