

**Lehigh Southwest Cement Company**

**Permanente Plant**  
24001 Stevens Creek Boulevard  
Phone (408) 996-4000  
Fax (408) 725-1019  
www.lehighcement.com

September 10, 2013

Mr. Danny Pham ([dapham@waterboards.ca.gov](mailto:dapham@waterboards.ca.gov))  
San Francisco Bay Regional Water Quality Control Board  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

Re: **2012 – 13 Annual Report – General Industrial Storm Water Permit**  
**WDID No.: 2 431006267; PID 0126**  
Lehigh Southwest Cement Company, Cupertino, California

Dear Mr. Pham:

Please find the 2012 – 13 Annual Report – General Industrial Storm Water Permit,  
WDID No.: 2431006267; PID 0126, for Lehigh Southwest Cement Company – Permanente Plant.

Please do not hesitate to contact me with any questions or comments.

Very truly yours,



Chow Yip  
Environmental Engineer  
Lehigh Southwest Cement Company - Permanente Plant

Cc: Greg Knapp – Lehigh Hanson  
Nicole Granquist – Downey Brand, LLC  
Alan Sabawi - LSCC

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State of California  
STATE WATER RESOURCES CONTROL BOARD

2012-2013  
**ANNUAL REPORT**  
FOR  
STORM WATER DISCHARGES ASSOCIATED  
WITH INDUSTRIAL ACTIVITIES

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Reporting Period July 1, 2012 through June 30, 2013

**An annual report is required to be submitted to your local Regional Water Quality Control Board (Regional Board) by July 1 of each year.** This document must be certified and signed, under penalty of perjury, by the appropriate official of your company. Many of the Annual Report questions require an explanation. Please provide explanations on a separate sheet as an attachment. **Retain a copy of the completed Annual Report for your records.**

Please circle or highlight any information contained in Items A, B, and C below that is new or revised so we can update our records. Please remember that a Notice of Termination and new Notice of Intent are required whenever a facility operation is relocated or changes ownership.

If you have any questions, please contact your Regional Board Industrial Storm Water Permit Contact. The names, telephone numbers and e-mail addresses of the Regional Board contacts, as well as the Regional Board office addresses can be found at <http://www.waterboards.ca.gov/stormwtr/contact.html>. To find your Regional Board information, match the first digit of your WDID number with the corresponding number that appears in parenthesis on the first line of each Regional Board office.

**GENERAL INFORMATION:**

**A. Facility Information:**

**Facility WDID No: 2431006267** \_\_\_\_\_

Facility Business Name: Lehigh Southwest Cement Company Permanente Quarry Contact Person: Alan Sabawi  
Physical Address: 24001 Stevens Creek Boulevard e-mail: Alan.Sasbawi@hanson.com  
City: Cupertino **CA** Zip: 95014 Phone: 408-996-4000  
Standard Industrial Classification (SIC) Code(s): 3241

**B. Facility Operator Information:**

Operator Name: Lehigh Southwest Cement Company Contact Person: Alan Sabawi  
Physical Address: 24001 Stevens Creek Boulevard e-mail: Alan.Sasbawi@hanson.com  
City: Cupertino **CA** Zip: 95014 Phone: 408-996-4000

**C. Facility Billing Information:**

Operator Name: Lehigh Southwest Cement Company Contact Person: Alan Sabawi  
Physical Address: 24001 Stevens Creek Boulevard e-mail: Alan.Sasbawi@hanson.com  
City: Cupertino **CA** Zip: 95014 Phone: 408-996-4000

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**SPECIFIC INFORMATION**

**MONITORING AND REPORTING PROGRAM**

**D. SAMPLING AND ANALYSIS EXEMPTIONS AND REDUCTIONS**

1. For the reporting period, was your facility exempt from collecting and analyzing samples from **two** storm events in accordance with sections B.12 or 15 of the General Permit?

**YES** Go to Item D.2  **NO** Go to Section E

2. Indicate the reason your facility is exempt from collecting and analyzing samples from **two** storm events. Attach a copy of the first page of the appropriate certification if you check boxes ii, iii, iv, or v.

i.  Participating in an Approved Group Monitoring Plan **Group Name:** \_\_\_\_\_  
\_\_\_\_\_

ii.  Submitted **No Exposure Certification (NEC)** Date Submitted: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Re-evaluation Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Does facility continue to satisfy NEC conditions?  YES  NO

iii.  Submitted **Sampling Reduction Certification (SRC)** Date Submitted: \_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Re-evaluation Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Does facility continue to satisfy SRC conditions?  YES  NO

iv.  Received Regional Board Certification Certification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

v.  Received Local Agency Certification Certification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

3. If you checked boxes i or iii above, were you scheduled to sample **one** storm event during the reporting year?

**YES** Go to Section E  **NO** Go to Section F

4. If you checked boxes ii, iv, or v, go to Section F.

**E. SAMPLING AND ANALYSIS RESULTS**

1. How many storm events did you sample? 3

If less than 2, **attach explanation** (if you checked item D.2.i or iii. above, only attach explanation if you answer "0").

2. Did you collect storm water samples from the first storm of the wet season that produced a discharge during scheduled facility operating hours? (Section B.5 of the General Permit)

**YES**  **NO** **attach explanation** (Please note that if you do not sample the first storm event, you are still required to sample 2 storm events)

3. How many storm water discharge locations are at your facility? 1

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4. For each storm event sampled, did you collect and analyze a sample from each of the facility's' storm water discharge locations?  YES, go to Item E.6  NO
5. Was sample collection or analysis reduced in accordance with Section B.7.d of the General Permit?  YES  NO, **attach explanation**

If "YES", **attach documentation** supporting your determination that two or more drainage areas are substantially identical.

Date facility's drainage areas were last evaluated \_\_\_\_\_

6. Were all samples collected during the first hour of discharge?  YES  NO, **attach explanation**

See attached SW Monitoring Plan

7. Was all storm water sampling preceded by three (3) working days without a storm water discharge?  YES  NO, **attach explanation**

8. Were there any discharges of storm water that had been temporarily stored or contained? (such as from a pond)  YES  NO, go to Item E.10

9. Did you collect and analyze samples of temporarily stored or contained storm water discharges from two storm events? (or one storm event if you checked item D.2.i or iii. above)  YES  NO, **attach explanation**

10. Section B.5. of the General Permit requires you to analyze storm water samples for pH, Total Suspended Solids (TSS), Specific Conductance (SC), Total Organic Carbon (TOC) or Oil and Grease (O&G), other pollutants likely to be present in storm water discharges in significant quantities, and analytical parameters listed in Table D of the General Permit.

- a. Does Table D contain any additional parameters related to your facility's SIC code(s)?  YES  NO, Go to Item E.11

- b. Did you analyze all storm water samples for the applicable parameters listed in Table D?  YES  NO

- c. If you did not analyze all storm water samples for the applicable Table D parameters, check one of the following reasons:

\_\_\_\_\_ In prior sampling years, the parameter(s) have not been detected in significant quantities from two consecutive sampling events. **Attach explanation**

\_\_\_\_\_ The parameter(s) is not likely to be present in storm water discharges and authorized non-storm water discharges in significant quantities based upon the facility operator's evaluation. **Attach explanation**

\_\_\_\_\_ Other. **Attach explanation**

11. For each storm event sampled, attach a copy of the laboratory analytical reports and report the sampling and analysis results using **Form 1** or its equivalent. The following must be provided for each sample collected:

- Date and time of sample collection
- Name and title of sampler
- Parameters tested
- Name of analytical testing laboratory
- Discharge location identification
- Testing results
- Test methods used
- Test detection limits
- Date of testing
- Copies of the laboratory analytical results

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F. QUARTERLY VISUAL OBSERVATIONS

1. **Authorized Non-Storm Water Discharges**

Section B.3.b of the General Permit requires quarterly visual observations of all authorized non-storm water discharges and their sources.

a. Do authorized non-storm water discharges occur at your facility?

**YES**                       **NO**    Go to Item F.2

b. Indicate whether you visually observed all authorized non-storm water discharges and their sources during the quarters when they were discharged. **Attach an explanation for any "NO" answers.** Indicate "N/A" for quarters without any authorized non-storm water discharges.

July-September     **YES**     **NO**     **N/A**                      October-December     **YES**     **NO**     **N/A**

January-March     **YES**     **NO**     **N/A**                      April-June                       **YES**     **NO**     **N/A**

c. Use **Form 2** to report quarterly visual observations of authorized non-storm water discharges or provide the following information:

- i. name of each authorized non-storm water discharge
- ii. date and time of observation
- iii. source and location of each authorized non-storm water discharge
- iv. characteristics of the discharge at its source and impacted drainage area/discharge location
- v. name, title, and signature of observer
- vi. **any** new or revised BMPs necessary to reduce or prevent pollutants in authorized non-storm water discharges. Provide new or revised BMP implementation date.

2. **Unauthorized Non-Storm Water Discharges**

Section B.3.a of the General Permit requires quarterly visual observations of all drainage areas to detect the presence of unauthorized non-storm water discharges and their sources.

a. Indicate whether you visually observed all drainage areas to detect the presence of unauthorized non-storm water discharges and their sources. **Attach an explanation for any "NO" answers.**

July-September     **YES**     **NO**    October-December     **YES**     **NO**

January-March     **YES**     **NO**    April-June                       **YES**     **NO**

b. Based upon the quarterly visual observations, were any unauthorized non-storm water discharges detected?

**YES**     **NO**    Go to Item F.2.d

c. Have each of the unauthorized non-storm water discharges been eliminated or permitted?

**YES**     **NO**    **Attach explanation**

d. Use **Form 3** to report quarterly unauthorized non-storm water discharge visual observations or provide the following information:

- i. name of each unauthorized non-storm water discharge
- ii. date and time of observation
- iii. source and location of each unauthorized non-storm water discharge
- iv. characteristics of the discharge at its source and impacted drainage area/discharge location
- v. name, title, and signature of observer
- vi. **any** corrective actions necessary to eliminate the source of each unauthorized non-storm water discharge and to clean impacted drainage areas. Provide date unauthorized non-storm water discharge(s) was eliminated or scheduled to be eliminated.

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## G. MONTHLY WET SEASON VISUAL OBSERVATIONS

Section B.4.a of the General Permit requires you to conduct monthly visual observations of storm water discharges at all storm water discharge locations during the wet season. These observations shall occur during the first hour of discharge or, in the case of temporarily stored or contained storm water, at the time of discharge.

1. Indicate below whether monthly visual observations of storm water discharges occurred at all discharge locations. **Attach an explanation for any "NO" answers.** Include in this explanation whether any eligible storm events occurred during scheduled facility operating hours that did not result in a storm water discharge, and provide the date, time, name and title of the person who observed that there was no storm water discharge.

	YES	NO		YES	NO
October	<input type="checkbox"/>	<input type="checkbox"/>	February	<input checked="" type="checkbox"/>	<input type="checkbox"/>
November	<input type="checkbox"/>	<input type="checkbox"/>	March	<input checked="" type="checkbox"/>	<input type="checkbox"/>
December	<input type="checkbox"/>	<input type="checkbox"/>	April	<input checked="" type="checkbox"/>	<input type="checkbox"/>
January	<input type="checkbox"/>	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	<input type="checkbox"/>

2. Report monthly wet season visual observations using **Form 4** or provide the following information:
  - a. date, time, and location of observation
  - b. name and title of observer
  - c. characteristics of the discharge (i.e., odor, color, etc.) and source of any pollutants observed
  - d. **any** new or revised BMPs necessary to reduce or prevent pollutants in storm water discharges. Provide new or revised BMP implementation date.

## ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION (ACSCE)

### H. ACSCE CHECKLIST

Section A.9 of the General Permit requires the facility operator to conduct one ACSCE in each reporting period (July 1- June 30). Evaluations must be conducted within 8-16 months of each other. The SWPPP and monitoring program shall be revised and implemented, as necessary, within 90 days of the evaluation. The checklist below includes the minimum steps necessary to complete a ACSCE. Indicate whether you have performed each step below. **Attach an explanation for any "NO" answers.**

1. Have you inspected all potential pollutant sources and industrial activities areas?  YES  NO  
The following areas should be inspected:
 

<ul style="list-style-type: none"> <li>• areas where spills and leaks have occurred during the last year</li> <li>• outdoor wash and rinse areas</li> <li>• process/manufacturing areas</li> <li>• loading, unloading, and transfer areas</li> <li>• waste storage/disposal areas</li> <li>• dust/particulate generating areas</li> <li>• erosion areas</li> </ul>	<ul style="list-style-type: none"> <li>• building repair, remodeling, and construction</li> <li>• material storage areas</li> <li>• vehicle/equipment storage areas</li> <li>• truck parking and access areas</li> <li>• rooftop equipment areas</li> <li>• vehicle fueling/maintenance areas</li> <li>• non-storm water discharge generating areas</li> </ul>
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2. Have you reviewed your SWPPP to assure that its BMPs address existing potential pollutant sources and industrial activities areas?  YES  NO
  
3. Have you inspected the entire facility to verify that the SWPPP's site map is up-to-date? The following site map items should be verified:  YES  NO
 

<ul style="list-style-type: none"> <li>• facility boundaries</li> <li>• outline of all storm water drainage areas</li> <li>• areas impacted by run-on</li> <li>• storm water discharges locations</li> </ul>	<ul style="list-style-type: none"> <li>• storm water collection and conveyance system</li> <li>• structural control measures such as catch basins, berms, containment areas, oil/water separators, etc.</li> </ul>
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4. Have you reviewed all General Permit compliance records generated since the last annual evaluation?  YES  NO

The following records should be reviewed:

- quarterly authorized non-storm water discharge visual observations
- monthly storm water discharge visual observation
- records of spills/leaks and associated clean-up/response activities
- quarterly unauthorized non-storm water discharge visual observations
- Sampling and Analysis records
- preventative maintenance inspection and maintenance records

5. Have you reviewed the major elements of the SWPPP to assure compliance with the General Permit?  YES  NO

The following SWPPP items should be reviewed:

- pollution prevention team
- list of significant materials
- description of potential pollutant sources
- assessment of potential pollutant sources
- identification and description of the BMPs to be implemented for each potential pollutant source

6. Have you reviewed your SWPPP to assure that a) the BMPs are adequate in reducing or preventing pollutants in storm water discharges and authorized non-storm water discharges, and b) the BMPs are being implemented?  YES  NO

The following BMP categories should be reviewed:

- good housekeeping practices
- spill response
- employee training
- erosion control
- quality assurance
- preventative maintenance
- material handling and storage practices
- waste handling/storage
- structural BMPs

7. Has all material handling equipment and equipment needed to implement the SWPPP been inspected?  YES  NO

I. ACSCE EVALUATION REPORT

The facility operator is required to provide an evaluation report that includes:

- identification of personnel performing the evaluation
- the date(s) of the evaluation
- necessary SWPPP revisions
- schedule for implementing SWPPP revisions
- any incidents of non-compliance and the corrective actions taken

Use **Form 5** to report the results of your evaluation or develop an equivalent form.

J. ACSCE CERTIFICATION

The facility operator is required to certify compliance with the Industrial Activities Storm Water General Permit. To certify compliance, both the SWPPP and Monitoring Program must be up to date and be fully implemented.

Based upon your ACSCE, do you certify compliance with the Industrial Activities Storm Water General Permit?  YES  NO

If you answered "NO" **attach an explanation** to the ACSCE Evaluation Report why you are not in compliance with the Industrial Activities Storm Water General Permit.

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**ATTACHMENT SUMMARY**

Answer the questions below to help you determine what should be attached to this annual report. Answer NA (Not Applicable) to questions 2-4 if you are not required to provide those attachments.

1. Have you attached Forms 1,2,3,4, and 5 or their equivalent?  YES (Mandatory)
2. If you conducted sampling and analysis, have you attached the laboratory analytical reports?  YES  NO  NA
3. If you checked box II, III, IV, or V in item D.2 of this Annual Report, have you attached the first page of the appropriate certifications?  YES  NO  NA
4. Have you attached an explanation for each "NO" answer in items E.1, E.2, E.5-E.7, E.9, E.10.c, F.1.b, F.2.a, F.2.c, G.1, H.1-H.7, or J?  YES  NO  NA

**ANNUAL REPORT CERTIFICATION**

I am duly authorized to sign reports required by the INDUSTRIAL ACTIVITIES STORM WATER GENERAL PERMIT (see Standard Provision C.9) and 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 ensure 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 person 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.

Printed Name: Alan Sabawi

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

9/10/13

Title: Plant Manager

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**SIDE A**

**FORM 1-SAMPLING & ANALYSIS RESULTS**

**FIRST STORM EVENT**

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLE(S): Scott Renfrew TITLE: Environmental Manager SIGNATURE: No longer employed

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For First Storm Event												
			BASIC PARAMETERS					OTHER PARAMETERS							
			PH	TSS	SC	O&G	TOC	Tot set solids							
Pond 30 (SW-4)	11 / 30 / 12 12:15 <input checked="" type="checkbox"/> PM	<input type="checkbox"/> AM : <input type="checkbox"/> PM	8.25 (analyzed past hold time)	8	1300	<5.0	3.33	0.10							
	/ /	<input type="checkbox"/> AM : <input type="checkbox"/> PM													
	/ /	<input type="checkbox"/> AM : <input type="checkbox"/> PM													
	/ /	<input type="checkbox"/> AM : <input type="checkbox"/> PM													
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l	ml/l/hr							
TEST METHOD DETECTION LIMIT:			1.68	1.0	20	5.0	0.300	0.10							
TEST METHOD USED:			SM4500-H+B	SM254 0D	SM2501 B	EPA1664	SM5310 C	SM2540 F							
ANALYZED BY (SELF/LAB):			LAB	LAB	LAB	LAB	LAB	LAB							

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease

TOC - Total Organic Carbon

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SIDE B

FORM 1-SAMPLING & ANALYSIS RESULTS

SECOND STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.

NAME OF PERSON COLLECTING SAMPLE(S): Scott Renfrew TITLE: Environmental Manager SIGNATURE: No longer employed

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For Second Storm Event									
			BASIC PARAMETERS					OTHER PARAMETERS				
			PH	TSS	SC	O&G	TOC	Tot set solids	Sb, As, Ba, Be	Cd, Cr, Co, Cu	Pb, Hg, Mo, Ni, Se,	Ag, Th, V, Zn
Pond 30 (SW-4)	12/05/12 08:30 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	: <input type="checkbox"/> AM <input type="checkbox"/> PM	7.92 (analyzed past hold time)	4.4	1400	<5.0	6.53	<0.10	<0.020, <0.0020, 0.089, <0.0010	<0.010, <0.010, <0.010, <0.020	<0.050, <0.0010, <0.50, <0.010, 0.0059	<0.010, <0.20, <0.020, 0.027
	/ / : <input type="checkbox"/> AM <input type="checkbox"/> PM	: <input type="checkbox"/> AM <input type="checkbox"/> PM										
	/ / : <input type="checkbox"/> AM <input type="checkbox"/> PM	: <input type="checkbox"/> AM <input type="checkbox"/> PM										
	/ / : <input type="checkbox"/> AM <input type="checkbox"/> PM	: <input type="checkbox"/> AM <input type="checkbox"/> PM										
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l	ml/l/hr	mg/l	mg/l	mg/l	mg/l
TEST METHOD DETECTION LIMIT:			1.68	1.0	20	5.0	0.300	0.10	Ba: 0.010		Se: 0.0050	Zn: 0.020
TEST METHOD USED:			SM4500-H+B	SM254 OD	SM2501 B	EPA166 4	SM5310 C	SM2540 F	EPA 200 series	EPA 200 series	EPA 200 series	EPA 200 series
ANALYZED BY (SELF/LAB):			LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

TSS - Total Suspended Solids

SC - Specific Conductance

O&G - Oil & Grease

TOC - Total Organic Carbon

FORM 1-SAMPLING & ANALYSIS RESULTS

ADDITIONAL STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.

NAME OF PERSON COLLECTING SAMPLE(S): Scott Renfrew TITLE: Environmental Manager SIGNATURE: No longer employed

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For Second Storm Event									
			BASIC PARAMETERS					OTHER PARAMETERS				
			PH	TSS	SC	O&G	TOC	Sb, As, Ba, Be	Cd, Cr, Co, Cu	Pb, Hg, Mo, Ni, Se,	Ag, Th, V, Zn	
Pond 30 (SW-4)	12/26/12 10:00 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	<input type="checkbox"/> AM : <input type="checkbox"/> PM	7.99 (analyzed past hold time)	63	2400	<5.0	1.93		<0.020, <0.0020, 0.11, <0.0010	<0.010, <0.018, <0.010, <0.020	<0.050, <0.0010, <0.50, 0.021 <0.0050	<0.010, <0.20, <0.020, <0.020
	/ / : <input type="checkbox"/> AM <input type="checkbox"/> PM	<input type="checkbox"/> AM : <input type="checkbox"/> PM										
	/ / : <input type="checkbox"/> AM <input type="checkbox"/> PM	<input type="checkbox"/> AM : <input type="checkbox"/> PM										
	/ / : <input type="checkbox"/> AM <input type="checkbox"/> PM	<input type="checkbox"/> AM : <input type="checkbox"/> PM										
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l		mg/l	mg/l	mg/l	mg/l
TEST METHOD DETECTION LIMIT:			1.68	1.0	20	5.0	0.300		Ba: 0.010		Ni: 0.010	
TEST METHOD USED:			SM4500-H+B	SM254 OD	SM2501 B	EPA166 4	SM5310 C		EPA 200 series	EPA 200 series	EPA 200 series	EPA 200 series
ANALYZED BY (SELF/LAB):			LAB	LAB	LAB	LAB	LAB		LAB	LAB	LAB	LAB

TSS - Total Suspended Solids      SC - Specific Conductance      O&G - Oil & Grease      TOC - Total Organic Carbon



**ANNUAL REPORT  
FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF  
STORM WATER DISCHARGES**

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.

- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

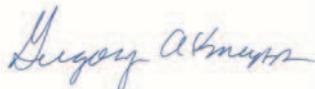
<b>Observation Date: February 2013</b> Observers Name: No Discharge (see attached Form 4) Title: Signature: <i>[Signature]</i>		#1	#2	#3	#4
<b>Observation Date: March 2013</b> Observers Name: No Discharge (see attached Form 4) Title: Signature: <i>[Signature]</i>		#1	#2	#3	#4
<b>Observation Date: April 2013</b> Observers Name: No Discharge (see attached Form 4) Title: Signature: <i>[Signature]</i>		#1	#2	#3	#4
<b>Observation Date: May 2013</b> Observers Name: No Discharge (see attached Form 4) Title: Signature: <i>[Signature]</i>		#1	#2	#3	#4

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SIDE A

FORM 5-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION  
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

EVALUATION DATE: 7 / 3 / 13 INSPECTOR NAME: Greg Knapp TITLE: Director Environmental



SIGNATURE: \_\_\_\_\_

<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)</p> <p><b>Material Handling Equipment</b></p> <p>None present</p>	<p>HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? <input type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>If yes, to either question, complete the next two columns of this form</p>	<p>Describe deficiencies in BMPs or BMP implementation</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p>
<p>ARE ADDITIONAL/REVISED BMPs NECESSARY? <input type="checkbox"/> YES <input type="checkbox"/> NO</p>				
<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)</p> <p><b>Mined Materials</b></p>	<p>HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>If yes, to either question, complete the next two columns of this form</p>	<p>Describe deficiencies in BMPs or BMP implementation</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p>
<p>ARE ADDITIONAL/REVISED BMPs NECESSARY? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>				
<p>POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)</p> <p><b>Soil Erosion</b></p> <p>No significant erosion</p>	<p>HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>If yes, to either question, complete the next two columns of this form</p>	<p>Describe deficiencies in BMPs or BMP implementation</p>	<p>Describe additional/revised BMPs or corrective actions and their date(s) of implementation</p>
<p>ARE ADDITIONAL/REVISED BMPs NECESSARY? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>				



*alpha*

Alpha Analytical Laboratories Inc.

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Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

17 January 2013

Lehigh Southwest Cement Company

Attn: Scott Renfrew

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Pond Discharge

Work Order: 12K1305

Enclosed are the results of analyses for samples received by the laboratory on 11/30/12 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sean Foley For Robbie C. Phillips  
Project Manager



Alpha Analytical Laboratories Inc.

e-mail: [clientservices@alpha-labs.com](mailto:clientservices@alpha-labs.com)

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### CHEMICAL EXAMINATION REPORT

Page 1 of 6

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:09  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 30 (SD)	12K1305-02	Water	11/30/12 12:15	11/30/12 21:00

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Bruce Gove  
Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 2 of 6

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:09  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

**Alpha Analytical Laboratories, Inc.**

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>Pond 30 (SD) (12K1305-02)</b>			<b>Sample Type: Water</b>			<b>Sampled: 11/30/12 12:15</b>		
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Oil & Grease (HEM)	EPA 1664	AL21327	12/13/12 08:30	12/17/12 08:30	1	ND mg/l	5.0	
<b>pH</b>	SM4500-H+ B	AL20619	11/30/12 13:10	11/30/12 17:23	"	<b>8.25 pH Units</b>	<b>1.68</b>	T-14
<b>Specific Conductance (EC)</b>	SM2510B	"	"	11/30/12 17:27	"	<b>1300 umhos/cm</b>	<b>20</b>	
<b>Total Dissolved Solids</b>	SM2540C	AL20324	12/03/12 10:30	12/06/12 13:15	"	<b>900 mg/l</b>	<b>10</b>	
<b>Total Suspended Solids</b>	SM2540D	AL20526	12/05/12 07:24	12/11/12 12:41	"	<b>82 "</b>	<b>1.0</b>	
<b>Total Settleable Solids</b>	SM2540F	AL20619	11/30/12 13:10	11/30/12 17:31	"	<b>0.10 ml/l/hr</b>	<b>0.10</b>	
<b>Total Organic Carbon</b>	SM5310C	AL21334	12/13/12 09:44	12/14/12 18:37	"	<b>3.33 mg/l</b>	<b>0.300</b>	

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Bruce Gove  
Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 3 of 6

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:09  
Project No: -  
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL20324 - General Preparation</b>										
<b>Blank (AL20324-BLK1)</b>				Prepared: 12/03/12 Analyzed: 12/06/12						
Total Dissolved Solids	ND	10	mg/l							
<b>Duplicate (AL20324-DUP1)</b>				Source: 12K1282-04 Prepared: 12/03/12 Analyzed: 12/06/12						
Total Dissolved Solids	336	10	mg/l		328			2.41	30	
<b>Duplicate (AL20324-DUP2)</b>				Source: 12K1305-02 Prepared: 12/03/12 Analyzed: 12/06/12						
Total Dissolved Solids	876	10	mg/l		900			2.70	30	
<b>Batch AL20526 - General Preparation</b>										
<b>Blank (AL20526-BLK1)</b>				Prepared: 12/05/12 Analyzed: 12/11/12						
Total Suspended Solids	ND	1.0	mg/l							
<b>Duplicate (AL20526-DUP1)</b>				Source: 12L0003-01 Prepared: 12/05/12 Analyzed: 12/11/12						
Total Suspended Solids	18.1	1.0	mg/l		23.0			23.8	30	
<b>Duplicate (AL20526-DUP2)</b>				Source: 12K1298-01 Prepared: 12/05/12 Analyzed: 12/11/12						
Total Suspended Solids	172	1.0	mg/l		172			0.291	30	
<b>Batch AL20619 - General Preparation</b>										
<b>Duplicate (AL20619-DUP1)</b>				Source: 12K1301-01 Prepared & Analyzed: 11/30/12						
pH	7.19	1.68	pH Units		7.16			0.418	20	T-14
Specific Conductance (EC)	262	20	umhos/cm		262			0.00	10	

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Bruce Gove  
Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 4 of 6

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:09  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21327 - General Preparation</b>										
<b>Blank (AL21327-BLK1)</b>				Prepared: 12/13/12 Analyzed: 12/17/12						
Oil & Grease (HEM)	ND	5.0	mg/l							
<b>LCS (AL21327-BS1)</b>				Prepared: 12/13/12 Analyzed: 12/17/12						
Oil & Grease (HEM)	36.2	5.0	mg/l	40.0		90.5	78-114			
<b>LCS Dup (AL21327-BSD1)</b>				Prepared: 12/13/12 Analyzed: 12/17/12						
Oil & Grease (HEM)	36.4	5.0	mg/l	40.0		91.0	78-114	0.551	18	
<b>Matrix Spike (AL21327-MS1)</b>				Source: 12L0097-03 Prepared: 12/13/12 Analyzed: 12/17/12						
Oil & Grease (HEM)	25.2	5.0	mg/l	20.0	ND	112	78-114			
<b>Batch AL21334 - General Prep</b>										
<b>Blank (AL21334-BLK1)</b>				Prepared: 12/13/12 Analyzed: 12/14/12						
Total Organic Carbon	ND	0.300	mg/l							
<b>LCS (AL21334-BS1)</b>				Prepared: 12/13/12 Analyzed: 12/14/12						
Total Organic Carbon	11.0	0.300	mg/l	10.0		110	85-115			
<b>LCS Dup (AL21334-BSD1)</b>				Prepared: 12/13/12 Analyzed: 12/14/12						
Total Organic Carbon	10.9	0.300	mg/l	10.0		109	85-115	0.288	20	
<b>Duplicate (AL21334-DUP1)</b>				Source: 12L0107-01 Prepared: 12/13/12 Analyzed: 12/14/12						
Total Organic Carbon	7.61	0.300	mg/l		7.52			1.14	20	
<b>Matrix Spike (AL21334-MS1)</b>				Source: 12L0107-02 Prepared: 12/13/12 Analyzed: 12/14/12						
Total Organic Carbon	26.6	0.600	mg/l	20.0	4.83	109	70-130			

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Bruce Gove  
Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 5 of 6

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:09  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21334 - General Prep</b>										
<b>Matrix Spike Dup (AL21334-MSD1)</b>										
<b>Source: 12L0107-02</b>										
Prepared: 12/13/12 Analyzed: 12/14/12										
Total Organic Carbon	26.7	0.600	mg/l	20.0	4.83	109	70-130	0.449	20	

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Bruce Gove  
Laboratory Director

1/17/2013



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### CHEMICAL EXAMINATION REPORT

Page 6 of 6

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:09  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

#### Notes and Definitions

T-14 Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time. Sample was received and analyzed outside of this "window."

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

PQL Practical Quantitation Limit

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Bruce Gove  
Laboratory Director

1/17/2013



*alpha*

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ELAP Certificate Numbers 1551 and 2728

17 January 2013

Lehigh Southwest Cement Company

Attn: Scott Renfrew

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Pond Discharge

Work Order: 12L0337

Enclosed are the results of analyses for samples received by the laboratory on 12/05/12 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sean Foley For Robbie C. Phillips  
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

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**CHEMICAL EXAMINATION REPORT**

Page 1 of 11

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

**ANALYTICAL REPORT FOR SAMPLES**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
Pond 30- SE	12L0337-03	Water	12/05/12 08:30	12/05/12 21:00

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Bruce Gove  
Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 2 of 11

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

Order Number                      Receipt Date/Time                      Client Code                      Client PO/Reference  
12L0337                                  12/05/2012 21:00                      SEL HANSONCUP                      4500486111

**Alpha Analytical Laboratories, Inc.**

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>Pond 30- SE (12L0337-03)</b>			<b>Sample Type: Water</b>		<b>Sampled: 12/05/12 08:30</b>			
<b>Metals by EPA 200 Series Methods</b>								
Antimony	EPA 200.7	AL21042	12/10/12 11:32	12/12/12 17:39	1	ND mg/l	0.020	
Arsenic	EPA 200.9	"	"	12/13/12 20:47	"	ND "	0.0020	
<b>Barium</b>	EPA 200.7	"	"	12/12/12 17:39	"	<b>0.089 "</b>	<b>0.010</b>	
Beryllium	"	"	"	"	"	ND "	0.0010	
Cadmium	"	"	"	"	"	ND "	0.010	
Chromium	"	"	"	"	"	ND "	0.010	
Cobalt	"	"	"	"	"	ND "	0.010	
Copper	"	"	"	"	"	ND "	0.020	
Lead	"	"	"	"	"	ND "	0.050	
Mercury	EPA 245.1	AL21339	12/14/12 07:00	12/14/12 10:46	"	ND "	0.0010	
Molybdenum	EPA 200.7	AL21042	12/10/12 11:32	12/12/12 17:39	"	ND "	0.50	
Nickel	"	"	"	"	"	ND "	0.010	
<b>Selenium</b>	EPA 200.9	"	"	12/14/12 12:39	"	<b>0.0059 "</b>	<b>0.0050</b>	
Silver	EPA 200.7	"	"	12/12/12 17:39	"	ND "	0.010	
Thallium	"	"	"	"	"	ND "	0.20	
Vanadium	"	"	"	"	"	ND "	0.020	
<b>Zinc</b>	"	"	"	"	"	<b>0.027 "</b>	<b>0.020</b>	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Oil & Grease (HEM)	EPA 1664	AL21763	12/18/12 09:00	12/19/12 13:00	1	ND mg/l	5.0	
<b>pH</b>	SM4500-H+ B	AL21147	12/06/12 12:57	12/06/12 17:27	"	<b>7.92 pH Units</b>	<b>1.68</b>	T-14
<b>Specific Conductance (EC)</b>	SM2510B	"	"	12/06/12 17:30	"	<b>1400 umhos/cm</b>	<b>20</b>	
<b>Total Dissolved Solids</b>	SM2540C	AL21025	12/10/12 09:30	12/12/12 13:00	"	<b>1200 mg/l</b>	<b>10</b>	
<b>Total Suspended Solids</b>	SM2540D	AL21129	12/11/12 08:03	12/13/12 11:30	"	<b>4.4 "</b>	<b>1.0</b>	
Total Settleable Solids	SM2540F	AL21147	12/06/12 12:57	12/06/12 17:27	"	ND ml/l/hr	0.10	
<b>Total Organic Carbon</b>	SM5310C	AL21733	12/17/12 10:45	12/18/12 20:44	"	<b>6.53 mg/l</b>	<b>1.00</b>	

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Bruce Gove  
Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 3 of 11

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
2L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

**Metals by EPA 200 Series Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
------------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	------

**Batch AL21042 - Metals Digest**

**Blank (AL21042-BLK1)**

Prepared: 12/10/12 Analyzed: 12/12/12

Antimony	ND	0.020	mg/l							
Arsenic	ND	0.0020	"							
Barium	ND	0.010	"							
Beryllium	ND	0.0010	"							
Cadmium	ND	0.010	"							
Chromium	ND	0.010	"							
Cobalt	ND	0.010	"							
Copper	ND	0.020	"							
Lead	ND	0.050	"							
Molybdenum	ND	0.50	"							
Nickel	ND	0.010	"							
Selenium	ND	0.0050	"							
Silver	ND	0.010	"							
Thallium	ND	0.20	"							
Vanadium	ND	0.020	"							
Zinc	ND	0.020	"							

**LCS (AL21042-BS1)**

Prepared: 12/10/12 Analyzed: 12/12/12

Antimony	0.188	0.020	mg/l	0.200		94.2	85-115			
Arsenic	0.0200	0.0020	"	0.0200		100	85-115			
Barium	0.188	0.010	"	0.200		94.2	85-115			
Beryllium	0.194	0.0010	"	0.200		97.1	85-115			
Cadmium	0.182	0.010	"	0.200		90.9	85-115			
Chromium	0.191	0.010	"	0.200		95.7	85-115			
Cobalt	0.185	0.010	"	0.200		92.3	85-115			
Copper	0.212	0.020	"	0.200		106	85-115			

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Bruce Gove  
Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 4 of 11

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

Order Number                      Receipt Date/Time                      Client Code                      Client PO/Reference  
12L0337                                  12/05/2012 21:00                      SEL HANSONCUP                      4500486111

**Metals by EPA 200 Series Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21042 - Metals Digest</b>										
<b>LCS (AL21042-BS1)</b>				Prepared: 12/10/12 Analyzed: 12/12/12						
Lead	0.192	0.050	"	0.200		95.9	85-115			
Molybdenum	0.190	0.50	"	0.200		95.2	85-115			
Nickel	0.190	0.010	"	0.200		95.0	85-115			
Selenium	0.0202	0.0050	"	0.0200		101	85-115			
Silver	0.193	0.010	"	0.200		96.4	85-115			
Thallium	0.188	0.20	"	0.200		94.2	85-115			
Vanadium	0.181	0.020	"	0.200		90.7	85-115			
Zinc	0.188	0.020	"	0.200		94.2	85-115			
<b>Duplicate (AL21042-DUP1)</b>				<b>Source: 12L0227-01</b> Prepared: 12/10/12 Analyzed: 12/12/12						
Antimony	ND	0.020	mg/l		ND				20	
Arsenic	0.00523	0.0020	"		0.00518			0.909	20	
Barium	0.0628	0.010	"		0.0622			0.985	20	
Beryllium	ND	0.0010	"		ND				20	
Cadmium	ND	0.010	"		ND				20	
Chromium	0.00655	0.010	"		ND				20	
Cobalt	ND	0.010	"		ND				20	
Copper	0.0496	0.020	"		0.0471			5.00	20	
Lead	ND	0.050	"		ND				20	
Molybdenum	0.00869	0.50	"		ND				20	
Nickel	0.162	0.010	"		0.160			1.18	20	
Selenium	ND	0.0050	"		ND				20	
Silver	ND	0.010	"		ND				20	
Thallium	ND	0.20	"		ND				20	
Vanadium	ND	0.020	"		ND				20	
Zinc	0.0926	0.020	"		0.0886			4.41	20	

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Bruce Gove  
Laboratory Director

1/17/2013



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CHEMICAL EXAMINATION REPORT

Page 5 of 11

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

Order Number: 12L0337      Receipt Date/Time: 12/05/2012 21:00      Client Code: SEL HANSONCUP      Client PO/Reference: 4500486111

Metals by EPA 200 Series Methods - Quality Control

Table with 11 columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. It contains two sections: 'Batch AL21042 - Metals Digest' and 'Matrix Spike (AL21042-MS1)' followed by a list of metals and their test results, and another section for 'Matrix Spike (AL21042-MS2)' with similar data.

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Laboratory Director

1/17/2013



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CHEMICAL EXAMINATION REPORT

Page 6 of 11

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Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

Order Number: 12L0337      Receipt Date/Time: 12/05/2012 21:00      Client Code: SEL HANSONCUP      Client PO/Reference: 4500486111

Metals by EPA 200 Series Methods - Quality Control

Table with 11 columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Matrix Spike (AL21042-MS2) and Matrix Spike Dup (AL21042-MSD1) with various metal test results.

Batch AL21339 - EPA 245.1 Hg Water

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Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 7 of 11

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

**Metals by EPA 200 Series Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21339 - EPA 245.1 Hg Water</b>										
<b>Blank (AL21339-BLK1)</b>				Prepared & Analyzed: 12/14/12						
Mercury	ND	0.0010	mg/l							
<b>LCS (AL21339-BS1)</b>				Prepared & Analyzed: 12/14/12						
Mercury	0.00230	0.0010	mg/l	0.00250		92.0	80-120			
<b>Duplicate (AL21339-DUP1)</b>				Source: 12L0732-01			Prepared & Analyzed: 12/14/12			
Mercury	ND	0.0010	mg/l		ND				20	
<b>Matrix Spike (AL21339-MS1)</b>				Source: 12L0732-01			Prepared & Analyzed: 12/14/12			
Mercury	0.00253	0.0010	mg/l	0.00250	ND	101	60-140			
<b>Matrix Spike Dup (AL21339-MSD1)</b>				Source: 12L0732-01			Prepared & Analyzed: 12/14/12			
Mercury	0.00252	0.0010	mg/l	0.00250	ND	101	60-140	0.396	20	

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1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 8 of 11

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Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21025 - General Preparation</b>										
<b>Blank (AL21025-BLK1)</b>				Prepared: 12/10/12 Analyzed: 12/12/12						
Total Dissolved Solids	ND	10	mg/l							
<b>Duplicate (AL21025-DUP1)</b>				Source: 12L0293-01 Prepared: 12/10/12 Analyzed: 12/12/12						
Total Dissolved Solids	299	10	mg/l		287			4.10	30	
<b>Duplicate (AL21025-DUP2)</b>				Source: 12L0337-03 Prepared: 12/10/12 Analyzed: 12/12/12						
Total Dissolved Solids	1220	10	mg/l		1240			1.62	30	
<b>Batch AL21129 - General Preparation</b>										
<b>Blank (AL21129-BLK1)</b>				Prepared: 12/11/12 Analyzed: 12/13/12						
Total Suspended Solids	ND	1.0	mg/l							
<b>Duplicate (AL21129-DUP1)</b>				Source: 12L0291-01 Prepared: 12/11/12 Analyzed: 12/13/12						
Total Suspended Solids	17.6	1.0	mg/l		18.8			6.59	30	
<b>Duplicate (AL21129-DUP2)</b>				Source: 12L0323-01 Prepared: 12/11/12 Analyzed: 12/13/12						
Total Suspended Solids	90.0	1.0	mg/l		90.0			0.00	30	
<b>Batch AL21147 - General Preparation</b>										
<b>Duplicate (AL21147-DUP1)</b>				Source: 12L0334-05 Prepared & Analyzed: 12/06/12						
pH	7.73	1.68	pH Units		7.73			0.00	20	
Specific Conductance (EC)	877	20	umhos/cm		877			0.00	10	

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**CHEMICAL EXAMINATION REPORT**

Page 9 of 11

Lehigh Southwest Cement Company  
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Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21733 - General Prep</b>										
<b>Blank (AL21733-BLK1)</b>				Prepared: 12/17/12 Analyzed: 12/18/12						
Total Organic Carbon	ND	1.00	mg/l							
<b>LCS (AL21733-BS1)</b>				Prepared: 12/17/12 Analyzed: 12/18/12						
Total Organic Carbon	11.1	1.00	mg/l	10.0		111	85-115			
<b>LCS Dup (AL21733-BSD1)</b>				Prepared: 12/17/12 Analyzed: 12/18/12						
Total Organic Carbon	11.2	1.00	mg/l	10.0		112	85-115	1.05	20	
<b>Duplicate (AL21733-DUP1)</b>				Source: 12L0323-01 Prepared: 12/17/12 Analyzed: 12/18/12						
Total Organic Carbon	13.4	1.00	mg/l		13.5			0.851	20	
<b>Matrix Spike (AL21733-MS1)</b>				Source: 12L0323-02 Prepared: 12/17/12 Analyzed: 12/18/12						
Total Organic Carbon	35.0	2.00	mg/l	20.0	13.1	109	70-130			
<b>Matrix Spike Dup (AL21733-MSD1)</b>				Source: 12L0323-02 Prepared: 12/17/12 Analyzed: 12/18/12						
Total Organic Carbon	37.8	2.00	mg/l	20.0	13.1	124	70-130	7.85	20	
<b>Batch AL21763 - General Preparation</b>										
<b>Blank (AL21763-BLK1)</b>				Prepared: 12/18/12 Analyzed: 12/19/12						
Oil & Grease (HEM)	ND	5.0	mg/l							
<b>LCS (AL21763-BS1)</b>				Prepared: 12/18/12 Analyzed: 12/19/12						
Oil & Grease (HEM)	38.4	5.0	mg/l	40.0		96.0	78-114			
<b>LCS Dup (AL21763-BSD1)</b>				Prepared: 12/18/12 Analyzed: 12/19/12						
Oil & Grease (HEM)	36.7	5.0	mg/l	40.0		91.8	78-114	4.53	18	

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Bruce Gove  
Laboratory Director

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**CHEMICAL EXAMINATION REPORT**

Page 10 of 11

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21763 - General Preparation</b>										
<b>Matrix Spike (AL21763-MS1)</b>										
<b>Source: 12L0479-02</b>										
Oil & Grease (HEM)	23.2	5.0	mg/l	20.0	ND	110	78-114			

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Bruce Gove  
Laboratory Director

1/17/2013



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### CHEMICAL EXAMINATION REPORT

Page 11 of 11

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Attn: Scott Renfrew

Report Date: 01/17/13 12:11  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

#### Notes and Definitions

- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- T-14 Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time. Sample was received and analyzed outside of this "window."
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit

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Bruce Gove  
Laboratory Director

1/17/2013



*alpha*

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ELAP Certificate Numbers 1551 and 2728

17 January 2013

Lehigh Southwest Cement Company

Attn: Scott Renfrew

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Pond Discharge

Work Order: 12L1208

Enclosed are the results of analyses for samples received by the laboratory on 12/26/12 20:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sean Foley For Robbie C. Phillips  
Project Manager



Alpha Analytical Laboratories Inc.

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**CHEMICAL EXAMINATION REPORT**

Page 1 of 10

Lehigh Southwest Cement Company  
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Attn: Scott Renfrew

Report Date: 01/17/13 12:14  
Project No: -  
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12L1208	12/26/2012 20:15	SEL HANSONCUP	4500486111

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 30	12L1208-07	Water	12/26/12 10:00	12/26/12 20:15

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Bruce Gove  
Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 2 of 10

Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
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Attn: Scott Renfrew

Report Date: 01/17/13 12:14  
Project No: -  
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L1208	12/26/2012 20:15	SEL HANSONCUP	4500486111

**Alpha Analytical Laboratories, Inc.**

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>Pond 30 (12L1208-07)</b>			<b>Sample Type: Water</b>		<b>Sampled: 12/26/12 10:00</b>			
<b>Metals by EPA 200 Series Methods</b>								
Antimony	EPA 200.7	AA30751	01/08/13 09:57	01/09/13 15:44	1	ND mg/l	0.020	
Arsenic	EPA 200.9	"	"	01/09/13 18:17	"	ND "	0.0020	
<b>Barium</b>	EPA 200.7	"	"	01/09/13 15:44	"	<b>0.11 "</b>	<b>0.010</b>	
Beryllium	"	"	"	"	"	ND "	0.0010	
Cadmium	"	"	"	"	"	ND "	0.010	
<b>Chromium</b>	"	"	"	"	"	<b>0.018 "</b>	<b>0.010</b>	
Cobalt	"	"	"	"	"	ND "	0.010	
Copper	"	"	"	"	"	ND "	0.020	
Lead	"	"	"	"	"	ND "	0.050	
Mercury	EPA 245.1	AA31045	01/11/13 07:15	01/11/13 17:02	"	ND "	0.0010	
Molybdenum	EPA 200.7	AA30751	01/08/13 09:57	01/09/13 15:44	"	ND "	0.50	
<b>Nickel</b>	"	"	"	"	"	<b>0.021 "</b>	<b>0.010</b>	
Selenium	EPA 200.9	"	"	01/10/13 15:26	"	ND "	0.0050	
Silver	EPA 200.7	"	"	01/09/13 15:44	"	ND "	0.010	
Thallium	"	"	"	"	"	ND "	0.20	
Vanadium	"	"	"	"	"	ND "	0.020	
Zinc	"	"	"	"	"	ND "	0.020	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Oil & Grease (HEM)	EPA 1664	AA30222	01/02/13 09:00	01/03/13 09:15	1	ND mg/l	5.0	
<b>pH</b>	SM4500-H+ B	AL22812	12/27/12 13:25	12/27/12 17:00	"	<b>7.99 pH Units</b>	<b>1.68</b>	T-14
<b>Specific Conductance (EC)</b>	SM2510B	"	"	"	"	<b>2400 umhos/cm</b>	<b>20</b>	
<b>Total Suspended Solids</b>	SM2540D	AL22809	12/28/12 08:10	01/02/13 14:42	"	<b>63 mg/l</b>	<b>1.0</b>	
<b>Total Organic Carbon</b>	SM5310C	AA30412	01/04/13 09:00	01/04/13 17:28	"	<b>1.93 "</b>	<b>0.300</b>	

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Bruce Gove  
Laboratory Director

1/17/2013



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CHEMICAL EXAMINATION REPORT

Page 3 of 10

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Attn: Scott Renfrew

Report Date: 01/17/13 12:14  
Project No: -  
Project ID: Pond Discharge

Order Number: 12L1208      Receipt Date/Time: 12/26/2012 20:15      Client Code: SEL HANSONCUP      Client PO/Reference: 4500486111

Metals by EPA 200 Series Methods - Quality Control

Table with 11 columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag.

Batch AA30751 - Metals Digest

Blank (AA30751-BLK1)

Prepared: 01/07/13 Analyzed: 01/08/13

Table listing results for Blank (AA30751-BLK1) for various metals like Antimony, Arsenic, Barium, etc., with values like ND, 0.020, mg/l.

LCS (AA30751-BS1)

Prepared: 01/07/13 Analyzed: 01/08/13

Table listing results for LCS (AA30751-BS1) for various metals with numerical values and units.

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Bruce I. Gove (Signature)

Bruce Gove  
Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

Page 4 of 10

Lehigh Southwest Cement Company  
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Attn: Scott Renfrew

Report Date: 01/17/13 12:14  
Project No: -  
Project ID: Pond Discharge

Order Number                      Receipt Date/Time                      Client Code                      Client PO/Reference  
12L1208                              12/26/2012 20:15                      SEL HANSONCUP                      4500486111

**Metals by EPA 200 Series Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AA30751 - Metals Digest</b>										
<b>LCS (AA30751-BS1)</b>				Prepared: 01/07/13 Analyzed: 01/08/13						
Lead	0.188	0.050	"	0.200		94.0	85-115			
Molybdenum	0.191	0.50	"	0.200		95.6	85-115			
Nickel	0.187	0.010	"	0.200		93.4	85-115			
Selenium	0.0209	0.0050	"	0.0200		105	85-115			
Silver	0.199	0.010	"	0.200		99.7	85-115			
Thallium	0.187	0.20	"	0.200		93.4	85-115			
Vanadium	0.178	0.020	"	0.200		88.8	85-115			
Zinc	0.187	0.020	"	0.200		93.7	85-115			
<b>Duplicate (AA30751-DUP1)</b>				<b>Source: 13A0092-04</b> Prepared: 01/07/13 Analyzed: 01/08/13						
Antimony	ND	0.020	mg/l		ND					20
Arsenic	ND	0.0020	"		ND					20
Barium	0.0768	0.010	"		0.0703			8.78		20
Beryllium	ND	0.0010	"		ND					20
Cadmium	ND	0.010	"		ND					20
Chromium	0.00152	0.010	"		ND					20
Cobalt	ND	0.010	"		ND					20
Copper	0.00935	0.020	"		ND					20
Lead	ND	0.050	"		ND					20
Molybdenum	0.00914	0.50	"		ND					20
Nickel	0.00303	0.010	"		ND					20
Selenium	ND	0.0050	"		ND					20
Silver	ND	0.010	"		ND					20
Thallium	0.0183	0.20	"		ND					20
Vanadium	ND	0.020	"		ND					20
Zinc	0.0302	0.020	"		0.0268			11.8		20

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Laboratory Director

1/17/2013



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**CHEMICAL EXAMINATION REPORT**

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Lehigh Southwest Cement Company  
PO Box 660140 / Attention SSC AP - CEMENT  
Dallas, TX 75266-0140  
Attn: Scott Renfrew

Report Date: 01/17/13 12:14  
Project No: -  
Project ID: Pond Discharge

Order Number                      Receipt Date/Time                      Client Code                      Client PO/Reference  
12L1208                                  12/26/2012 20:15                      SEL HANSONCUP                      4500486111

**Metals by EPA 200 Series Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AA30751 - Metals Digest</b>										
<b>Matrix Spike (AA30751-MS1)</b>		<b>Source: 13A0092-04</b>			Prepared: 01/07/13		Analyzed: 01/08/13			
Antimony	0.191	0.020	mg/l	0.200	ND	95.7	70-130			
Arsenic	0.0176	0.0020	"	0.0200	ND	88.0	70-130			
Barium	0.244	0.010	"	0.200	0.0703	86.8	70-130			
Beryllium	0.177	0.0010	"	0.200	ND	88.7	70-130			
Cadmium	0.172	0.010	"	0.200	ND	85.9	70-130			
Chromium	0.181	0.010	"	0.200	ND	90.0	70-130			
Cobalt	0.171	0.010	"	0.200	ND	85.2	70-130			
Copper	0.213	0.020	"	0.200	ND	103	70-130			
Lead	0.171	0.050	"	0.200	ND	85.5	80-120			
Molybdenum	0.188	0.50	"	0.200	ND	89.8	70-130			
Nickel	0.173	0.010	"	0.200	ND	84.8	70-130			
Selenium	0.00501	0.0050	"	0.0200	ND	25.1	70-130			QM-01
Silver	0.192	0.010	"	0.200	ND	95.8	70-130			
Thallium	0.187	0.20	"	0.200	ND	85.4	70-130			
Vanadium	0.170	0.020	"	0.200	ND	84.8	70-130			
Zinc	0.206	0.020	"	0.200	0.0268	89.4	70-130			
<b>Matrix Spike (AA30751-MS2)</b>		<b>Source: 12L1208-06</b>			Prepared: 01/08/13		Analyzed: 01/09/13			
Antimony	0.193	0.020	mg/l	0.200	ND	96.6	70-130			
Arsenic	0.0183	0.0020	"	0.0200	ND	86.9	70-130			
Barium	0.294	0.010	"	0.200	0.0979	98.0	70-130			
Beryllium	0.197	0.0010	"	0.200	ND	98.4	70-130			
Cadmium	0.184	0.010	"	0.200	ND	92.2	70-130			
Chromium	0.222	0.010	"	0.200	0.0254	98.2	70-130			
Cobalt	0.183	0.010	"	0.200	ND	90.8	70-130			
Copper	0.226	0.020	"	0.200	ND	107	70-130			
Lead	0.186	0.050	"	0.200	ND	93.0	80-120			

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CHEMICAL EXAMINATION REPORT

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Report Date: 01/17/13 12:14  
Project No: -  
Project ID: Pond Discharge

Order Number: 12L1208      Receipt Date/Time: 12/26/2012 20:15      Client Code: SEL HANSONCUP      Client PO/Reference: 4500486111

Metals by EPA 200 Series Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes sections for Matrix Spike (AA30751-MS2) and Matrix Spike Dup (AA30751-MSD1).

Batch AA31045 - EPA 245.1 Hg Water

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*Bruce I. Gove*

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**CHEMICAL EXAMINATION REPORT**

Page 7 of 10

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Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12L1208	12/26/2012 20:15	SEL HANSONCUP	4500486111

**Metals by EPA 200 Series Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AA31045 - EPA 245.1 Hg Water</b>										
<b>Blank (AA31045-BLK1)</b>				Prepared & Analyzed: 01/11/13						
Mercury	ND	0.0010	mg/l							
<b>LCS (AA31045-BS1)</b>				Prepared & Analyzed: 01/11/13						
Mercury	0.00237	0.0010	mg/l	0.00250		94.8	80-120			
<b>Duplicate (AA31045-DUP1)</b>				Source: 12L1208-01			Prepared & Analyzed: 01/11/13			
Mercury	ND	0.0010	mg/l		ND				20	
<b>Matrix Spike (AA31045-MS1)</b>				Source: 12L1208-01			Prepared & Analyzed: 01/11/13			
Mercury	0.00258	0.0010	mg/l	0.00250	ND	103	60-140			
<b>Matrix Spike Dup (AA31045-MSD1)</b>				Source: 12L1208-01			Prepared & Analyzed: 01/11/13			
Mercury	0.00254	0.0010	mg/l	0.00250	ND	102	60-140	1.56	20	

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Report Date: 01/17/13 12:14  
Project No: -  
Project ID: Pond Discharge

Order Number: 12L1208      Receipt Date/Time: 12/26/2012 20:15      Client Code: SEL HANSONCUP      Client PO/Reference: 4500486111

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AA30222 - General Preparation</b>										
<b>Blank (AA30222-BLK1)</b>				Prepared: 01/02/13 Analyzed: 01/03/13						
Oil & Grease (HEM)	ND	5.0	mg/l							
<b>LCS (AA30222-BS1)</b>				Prepared: 01/02/13 Analyzed: 01/03/13						
Oil & Grease (HEM)	38.2	5.0	mg/l	40.0		95.5	78-114			
<b>LCS Dup (AA30222-BSD1)</b>				Prepared: 01/02/13 Analyzed: 01/03/13						
Oil & Grease (HEM)	35.5	5.0	mg/l	40.0		88.8	78-114	7.33	18	
<b>Matrix Spike (AA30222-MS1)</b>				<b>Source: 12L1208-04</b>			Prepared: 01/02/13 Analyzed: 01/03/13			
Oil & Grease (HEM)	20.4	5.0	mg/l	20.0	ND	95.5	78-114			
<b>Batch AA30412 - General Prep</b>										
<b>Blank (AA30412-BLK1)</b>				Prepared & Analyzed: 01/04/13						
Total Organic Carbon	ND	0.300	mg/l							
<b>LCS (AA30412-BS1)</b>				Prepared & Analyzed: 01/04/13						
Total Organic Carbon	9.60	0.300	mg/l	10.0		96.0	85-115			
<b>LCS Dup (AA30412-BSD1)</b>				Prepared & Analyzed: 01/04/13						
Total Organic Carbon	9.53	0.300	mg/l	10.0		95.3	85-115	0.703	20	
<b>Duplicate (AA30412-DUPI)</b>				<b>Source: 12L0977-01</b>			Prepared & Analyzed: 01/04/13			
Total Organic Carbon	3.50	0.300	mg/l		3.52			0.753	20	
<b>Matrix Spike (AA30412-MS1)</b>				<b>Source: 12L0977-02</b>			Prepared & Analyzed: 01/04/13			
Total Organic Carbon	20.5	0.600	mg/l	20.0	1.91	92.9	70-130			

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**CHEMICAL EXAMINATION REPORT**

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Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
12L1208	12/26/2012 20:15	SEL HANSONCUP	4500486111

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AA30412 - General Prep</b>										
<b>Matrix Spike Dup (AA30412-MSD1)</b> Source: 12L0977-02 Prepared & Analyzed: 01/04/13										
Total Organic Carbon	20.3	0.600	mg/l	20.0	1.91	92.2	70-130	0.670	20	
<b>Batch AL22809 - General Preparation</b>										
<b>Blank (AL22809-BLK1)</b> Prepared: 12/28/12 Analyzed: 01/02/13										
Total Suspended Solids	ND	1.0	mg/l							
<b>Duplicate (AL22809-DUP1)</b> Source: 12L1184-01 Prepared: 12/28/12 Analyzed: 01/02/13										
Total Suspended Solids	750	1.0	mg/l		820			8.92	30	
<b>Duplicate (AL22809-DUP2)</b> Source: 12L1174-01 Prepared: 12/28/12 Analyzed: 01/02/13										
Total Suspended Solids	94.0	1.0	mg/l		94.0			0.00	30	
<b>Batch AL22812 - General Preparation</b>										
<b>Duplicate (AL22812-DUP1)</b> Source: 12L1222-01 Prepared & Analyzed: 12/27/12										
Specific Conductance (EC)	155	20	umhos/cm		156			0.643	10	
pH	5.94	1.68	pH Units		5.96			0.336	20	

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12L1208	12/26/2012 20:15	SEL HANSONCUP	4500486111

#### Notes and Definitions

QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.

T-14 Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time. Sample was received and analyzed outside of this "window."

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

PQL Practical Quantitation Limit

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Laboratory Director

1/17/2013

Form 4 Addendum: Monthly Visual Observations of Storm Water Discharges  
 Inspections Completed During Rain Events (Monday through Friday)

<b>Date</b>	<b>Rain Amount (inches)</b>	<b>SW-4 (Pond 30)</b>	<b>Observer</b>	<b>Title</b>
2/7/13	Less than 0.1	No discharge Time: 1545	George Wegmann (Golder)	Senior Geologist
2/19/13	0.3	No discharge Time: 1725	Michael Pierce (Golder) Jeff Linder (Golder)	Senior Technician Staff Geologist
2/20/13	0	No discharge Time: 0730	Jeff Linder (Golder)	Staff Geologist
No discharges noted for February 2013				
3/6/13	0.1	No discharge Time: 0743, 1444	Jeff Linder (Golder) George Wegmann (Golder)	Staff Geologist Senior Geologist
3/7/13	0.2	No discharge Time: 1239	George Wegmann (Golder)	Senior Geologist
3/20/13	0.2	No discharge Time: 0927	George Wegmann (Golder)	Senior Geologist
No discharges noted for March 2013				
4/1/13	0.1	No discharge Time: 1430	Ian Sharkey (Golder)	Senior Technician
4/4/13	0.1	No discharge Time: 1155	George Wegmann (Golder)	Senior Geologist
No discharges noted for April 2013				
No discharges noted for May 2013 (George Wegmann, Golder)				

Precipitation data estimated from Accuweather's Cupertino Station:  
<http://www.accuweather.com/en/us/cupertino-ca/95014/august-weather/332094?monyr=8/1/2013&view=table>

**Appendix A**  
**Stormwater Pollution Prevention Plan**  
**Monitoring Plan**

## **1.0 Introduction**

This stormwater sampling plan has been prepared to implement the monitoring activities addressed in the Permanente Stormwater Pollution Prevention Plan (SWPPP).

## **2.0 Monitoring Locations**

The Permanente Plant has one potential stormwater outfalls identified in Table 1.

**Table 1**  
**Potential Discharge Stormwater Drainage Area**  
**Outfalls**  
**Permanente Plant**

Outfall	Location	Contributing Drainage Areas
SW 4 (Pond 30)	Overflow from Pond 30 prior to entering Permanente Creek	East Material Storage Area

## **3.0 Monitoring Times**

Monitoring is to be performed during the normal working hours of the monitoring personnel. The hours of their normal schedule are as follows:

Monday through Friday – Daylight hours

Monitoring during these times provides the most qualified personnel regularly at the site to perform these tasks. Therefore, the best quality data available will be obtained. These personnel are familiar with sampling and laboratory techniques and have demonstrated diligence and high aptitude in previous monitoring activities. Sampling will be performed in daylight hours for safety reasons.

## **4.0 Required Monitoring**

### **4.1 Visual Observations In All Drainage Areas For Unauthorized Non-stormwater Discharges**

- Visual Observations for the presence of unauthorized non-stormwater discharges into “waters of the U.S.”
- The visual observations required above shall occur quarterly, during daylight hours, on days with no storm water discharges. Quarterly visual observations shall be conducted in each of the following periods: January-March, April-June, July-September, and October-December.

Facility operators shall conduct quarterly visual observations within 6-18 weeks of each other.

- Visual observations shall document the presence of any discoloration, stains, odors, floating materials, etc., as well as the source of any discharge. Records shall be maintained of the visual observation dates, locations observed, observations, and response taken to eliminate unauthorized non-storm water discharges and to reduce or prevent pollutants from contacting non-storm water discharges.

#### **4.2 Visual Observations Of Authorized Non-stormwater Discharges**

- The stormwater outfalls authorized by the Industrial Stormwater General Permit does not have any authorized Non-stormwater discharges that are not combined with stormwater discharges.

#### **4.3 Outfall SW4 (Pond 30)**

- During the wet season (October 1 through May 31):
  - Sampling of the first storm of the wet season storm that produces a discharge and one additional storm in the wet season. The sampling must be made for a storm preceded by three days that had no stormwater discharges. The sampling is to be performed in the first hour of discharge during the storm event as access and safety allow.
  - Monthly visual observations of stormwater discharges into “waters of the U.S.” These observations shall occur during daylight hours during the first hour of discharge as possible and shall include stormwater that has been contained. The observations must be made for a storm preceded by three days that had no stormwater discharges.
  - Visual observations shall document the presence of any discoloration, stains, odors, floating materials, etc., as well as the source of any discharge. Records shall be maintained of the visual observation dates, locations observed, observations, and response taken to eliminate unauthorized non-storm water discharges and to reduce or prevent pollutants from contacting non-storm water discharges.

#### **4.4 Sampling Methods**

All sampling and sample preservation shall be performed using methods consistent with those required in the General Permit.

All analyses will be performed at an EPA and State of California certified environmental laboratory. A laboratory located within one hour of the facility will be used to minimize sample holding times.

## 5.0 Sample Analyses

Any sample collected as described above will be analyzed for the parameters identified in Table 1 below.

**Table 1**  
**List of Parameters For Stormwater Sample Analysis**

Parameter	Units	Analytical Method
pH	Standard units	EPA 150.1
Total Suspended Solids (TSS)	mg/L	EPA 160.2
Specific conductance (SC)	Umho/cm	SM 2510-B
Oil & Grease	mg/L	EPA 1664
Selenium (se)	ug/L	EPA 200.7
Total Dissolved Solids	Mg/L	

These methods are standard EPA methods that will provide quality data that can be used to determine the effectiveness of the stormwater pollution prevention program at this facility.

## 6.0 Recordkeeping

All monitoring records will be maintained at the facility for at least five years after the monitoring occurred.

The records shall include the following information:

- The date, place, and time of site inspections, sampling, visual observations, and/or measurements;
- The individual(s) who performed the site inspections, sampling, visual observations, and or measurements;
- The date and approximate time of analyses;
- The individual(s) who performed the analyses;
- Analytical results, method detection limits, and the analytical techniques or methods used;
- Quality assurance/quality control records and results;
- Non-storm water discharge inspections and visual observations and storm water discharge visual observation records;

- All calibration and maintenance records of on-site instruments used.

### ***7.0 Training***

Monitoring Personnel will be trained in the requirements of this Monitoring Plan and other monitoring or sampling methods as necessary. This training will be provided by a person knowledgeable in stormwater monitoring.