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December 5, 2013

VIA U.S. MAIL AND ELECTRONIC MAIL

Ms. Dyan Whyte
Assistant Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Re: *Third Quarter Monitoring Report – June 27, 2013 Amended Water Code section 13267 Order, Order No. R2-2013-1005-A1, Directive 7*

Dear Ms. Whyte:

Enclosed, in accordance with the Regional Water Quality Control Board, San Francisco Bay Region's, ("Regional Water Board") June 27, 2013 amended Water Code section 13267 Order, Order No. R2-2013-1005-A1, ("Order"), Lehigh Southwest Cement Company ("Lehigh") provides and encloses the enclosed 3rd Quarter Monitoring Report pursuant to Directive 7 of that Order.

If you or your staff have any questions regarding the above report or enclosed documents, please do not hesitate to contact me or Greg Knapp at Lehigh.

Very truly yours,

Nicole Granquist

Nicole E. Granquist

Cc: Brian Thompson, Regional Water Quality Control Board, San Francisco Bay Region
Greg Knapp, Director Environmental Region West, Lehigh
Scott Rickman, Regional Counsel, Lehigh Hanson

December 5, 2013

Project No. 063-7109-914

Ms. Dyan Whyte
Assistant Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

RE: Quarterly Report, Water Code Section 13267 Order No R2-2013-1005-A1, Order Item No. 7, Lehigh Southwest Cement Company, Permanente Facility, 24001 Stevens Creek Boulevard, Cupertino, CA.

Dear Ms. Whyte:

Golder Associates Inc. (Golder), on behalf of Lehigh Southwest Cement Company (Lehigh), has prepared this Third (3rd) Quarter Summary Report for the Lehigh Permanente Cement Plant and Quarry (Site) located at 24001 Stevens Creek Boulevard in Santa Clara County, California. This report was prepared pursuant to Order Item No. 7 set forth in Water Code section 13267 Order No. R2-2013-1005-A1 (Order) amended by the San Francisco Bay Regional Water Quality Control Board (RWQCB) on June 27, 2013.

1.0 MONITORING REQUIREMENTS

Order Item No. 7 requires the sampling of locations specified on Table 1 below. Table 1 is derived from the Order Item No. 7 Table A.1 sample locations (additional sampling locations are included on Order Table A.1 that pertain to Order Items 8 and 11 and therefore are excluded from Table 1 below). Consistent with the Order, monitoring locations that overlap with outfalls identified in the Sand and Gravel (S&G) permit may be appropriately referenced and are not resampled for Order Item No. 7.

Table 1: Monitoring Requirements and Details

Sample Number ¹	Sample Description	Frequency	Constituents	Sampling Details
1	Downstream Sample Location	Per S&G permit ; Quarterly for PP13 metals ²	S&G Permit Conventional Pollutants (CP) plus CTR PP13 total metals	Quarterly sampling occurred on 9/4/13; sampled for monthly parameters on 7/29/13 and 8/28/13
6	Pond 30	Per Industrial SW Permit	Industrial SW Permit plus CTR PP13 total metals	Not sampled - no discharge in 3 rd quarter
10	Pond 21	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Pond 20 in 3 rd quarter
11	Pond 20	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 3 rd quarter
12	Laboratory Parking Lot	Per Industrial SW Permit	Industrial SW Permit	Not sampled - no discharge in 3 rd quarter
13	DS RW Emergency Bypass	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Emergency Bypass in 3 rd quarter



Sample Number ¹	Sample Description	Frequency	Constituents	Sampling Details
14	Emergency Bypass	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 3 rd quarter
15	DS RW Pond 17	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 9/13/13
17	Pond 17 Outfall	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 9/13/13
18	DS RW Dinky Shed	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Dinky Shed in 3 rd quarter
19	Dinky Shed Overflow	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 3 rd quarter
20	DS RW Pond 9	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 9/4/13
21	DS RW Rock Plant Sump	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Rock Plant Sump in 3 rd quarter
22	Rock Plant Overflow	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 3 rd quarter
23	Pond 9 Outfall	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 9/4/13
24	Pond 13 DS RW	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals not sampled as sample location was dry when attempted to sample in September
27	Ponds 13 A/B	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 9/4/13
28	DS Pond 4a, inflow to Pond 13	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled – sample location was dry in 3 rd quarter
29	Historic Buried Pipe	Monthly when flowing	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 3 rd quarter
31	Pond 4a	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 10/30/13 as no discharge when attempted to sample on 9/4/13
32	Background	Quarterly	S&G CP plus CTR PP13 total metals	Not sampled - sample location was dry when attempted to sample on 9/4/13

1: 13267 Order Table A.1 Sample Location Designation; DS = downstream, RW = receiving water

2: This sampling location is not required to be sampled per the Sand & Gravel General Permit; thus, only quarterly sampling was performed.

2.0 SAMPLING SUMMARY

The data from the 3rd Quarter Item 7 sampling are summarized on the attached Tables 2 and 3. The laboratory analytical reports are also enclosed. Since it is not required as part of Order Item No. 7, the upstream receiving water sample locations are not summarized on Tables 2 and 3; however, the data is included in the laboratory analytical reports. Duplicate samples of the downstream sample location were collected as part of the monitoring and sampling program. Field blanks were also collected as part of the September 4 and September 13 sampling events when metals were analyzed.

As part of S&G permit routine monitoring, 16 of the 21 sample locations listed on Table 1 and shown on Figure 1 are monitored and sampled. The data from the S&G routine monitoring for the 3rd Quarter 2013 were summarized in Lehigh's 3rd Quarter 2013 Self-Monitoring Report (SMR), which was submitted by Lehigh to the RWQCB on October 30, 2013. These data are also included herein (Table 2). For the 3rd



Quarter, 7 of the 16 S&G permit routine monitoring locations were sampled. The other locations were not sampled as no discharges were noted or the sampling locations were dry (Table 1). Pond 4a discharge was not sampled for metals on September 4 as it was not discharging during this sampling event. However, Golder collected a Pond 4a sample for metals analysis on 10/30/13. The results are pending.

The five locations (and sample designations) included in Order Item No. 7 that are not covered under the S&G permit are Downstream (1), Pond 30 (6), Laboratory Parking Lot (12), Historic Buried Pipe (29), and Background (32). Golder sampled non S&G permit location, Downstream (1), as part of the 3rd Quarter sampling. The four other non S&G permit locations were not sampled as they did not discharge or were dry during the 3rd Quarter (Table 1).

Monitoring and sampling were conducted in accordance to Golder's standard operating procedures. Golder measured field parameters with a Myron Ultrameter II or YSI 556 water-quality meter, HACH chlorine test kit, and a LaMotte turbidity meter. Golder followed to the extent practicable the EPA recommended "clean hands/dirty hands" sampling protocol for the collection of samples to be analyzed by EPA methods 1631 and 1638. Golder submitted the samples to Alpha Analytical Laboratories Inc. (Alpha) for laboratory analysis of the S&G conventional pollutants and CTR PP13 total metals. Alpha subcontracted with McCampbell Analytical, Inc. and Brooks Rand Labs for select metals analyses.

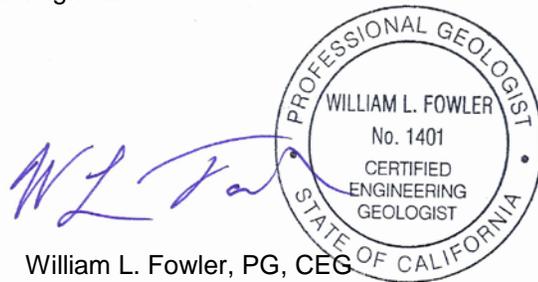
3.0 CLOSING

This report has been prepared and reviewed by the undersigned.

GOLDER ASSOCIATES INC.



George C. Wegmann
Senior Geologist



William L. Fowler, PG, CEG
Principal/Program Leader

cc: Greg Knapp, Lehigh Southwest Cement Company
Nicole Granquist, Downey Brand LLP

Attachments: Figure 1: Item 7 Sample Locations
Table 2: S&G Data Summary
Table 3: Metals Summary
Laboratory Analytical Reports

FIGURES

Map Document: G:\GIS\Lehigh_Quarry\Maps\SurfaceWater\OrderResponse\SamplingLocations_Item7_Overview_201310.mxd / Modified 10/18/2013 2:01:02 PM by DZeimanfahm / Exported 10/30/2013 4:34:06 PM by DZeimanfahm



LEGEND

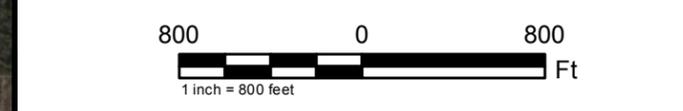
- Item 7 Sample Locations**
- Sand and Gravel Discharge Point
 - General Industrial Stormwater Discharge Point
 - Receiving Water Sample Location
 - Supplemental Monitoring Location
 - Permanente Creek
 - ▭ Pond

NOTES

RW = Receiving Water
DS = Downstream

REFERENCES

- 1) Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
- 2) On site ponds, wetlands, and stream data compiled from WRA, Lehigh, and Golder Associates. Off site hydrography from USGS NHD.
- 3) Coordinate System: NAD 1983 StatePlane California III FIPS 0403 Feet



PROJECT **LEHIGH SOUTHWEST CEMENT COMPANY
PERMANENTE QUARRY
SAND AND GRAVEL PERMIT**

TITLE **ITEM 7 SAMPLE LOCATIONS**

	PROJECT No.	063-7109-913	FILE No.	SamplingLocations_Item7_Overview_201310.mxd
	DESIGN	DZF	10/18/2013	SCALE: 1:9,600
	GIS	DZF	10/18/2013	REV. 0
	CHECK	GW	10/18/2013	FIGURE 1
	REVIEW	XX	10/18/2013	

TABLES

Table 2: S and G Data Summary
Order Item No. 7
Lehigh Southwest Cement Company Permanente Plant
3rd Quarter 2013

Sample Location	Sample Description	Units		Flow Rate		Turbidity NTU Field	pH s.u. Field	Chlorine Residual mg/L Field	Temp C Field	DO mg/L Field	Chloride mg/L EPA 300.0			TSS mg/L SM2540D			Total Set Mat mL/L/hr SM2540F			TDS mg/L SM2540C			O&G mg/L EPA 1664			Hardness mg/L SM2340B		
		Test Method	Field	gpm	MGD						Result	Result	Result	Result	Result	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result
1	Site Downstream Sample	7/29/13				3.58	8.05		18.33	8.16	55	0.03	5.0							1100	5	10				640	1	5
		8/28/13				0.60	7.85		18.24	7.70	70	0.03	5.0							1100	5	10				669	1	5
		9/4/13				0.52	7.83		18.42	6.52	70	0.03	12	10	0.3	0.50	ND	0.1	0.10	1200	5	10	1.1 J	0.80	1.4	659	1	5
15	Pond 17 Downstream RW	9/10/2013				1.43	7.72				100	0.03	25						2000	5	10				1090	1	5	
		9/13/2013				1.02	7.44																					
		9/18/2013				0.94	7.40		20.25	8.02	94	0.03	12							1800	5	10						
		9/24/2013				1.94	7.56			5.96	98	0.03	5.0							1700	5	10						
17	Pond 17 Discharge	9/10/2013	75	0.108	1.60	7.84	ND				29	0.03	12						2100	5	10							
		9/11/2013	75	0.108	1.50	8.16									ND	0.3	0.50											
		9/12/2013	75	0.108	0.84	8.13																						
		9/13/2013	10	0.014	0.85	8.23	ND																					
		9/14/2013	60	0.086	1.58	7.68																						
		9/15/2013	10	0.014	0.92	8.14																						
		9/16/2013	50	0.072	1.48	7.57																						
		9/17/2013	50	0.072	1.51	7.62																						
		9/18/2013	20	0.029	1.65	8.09	ND					110	0.03	25						2000	5	10						
		9/19/2013	75	0.108	4.28	8.14									ND	0.3	0.50											
		9/20/2013	10	0.014	1.88	8.16																						
		9/21/2013	70	0.101	1.28	7.52																						
		9/22/2013	10	0.014	0.71	7.92																						
		9/23/2013	20	0.029	1.55	8.17																						
		9/24/2013	75	0.108	1.52	7.96	ND					110	0.03	5.0						2000	5	10						
		9/25/2013	60	0.086	0.65	8.16										1.4	0.3	0.50										
		9/26/2013	60	0.086	1.18	8.04																						
9/27/2013	60	0.086	0.55	7.01																								
9/28/2013	30	0.043	0.83	8.11																								
9/30/2013	75	0.108	0.90	8.09																								
20	Pond 9 Downstream RW	7/1/2013			3.04	8.08					21	0.03	5.0						940	5	10							
		7/9/2013			1.35	8.02			18.22	8.41	21	0.03	12						940	5	10							
		7/18/2013			5.02	8.01					22	0.03	0.50						920	5	10							
		7/25/2013			1.38	7.90					33	0.03	5.0						990	5	10							
		7/29/2013			3.65	7.82			19.80	8.81	40	0.03	5.0						1100	5	10				655	1	5	
		8/7/2013			2.84	7.80					53	0.03	5.0						1100	5	10							
		8/14/2013			0.36	7.73					50	0.03	5.0						1100	5	10							
		8/22/2013			0.52	7.76					54	0.03	12						1400	5	10							
		8/28/2013			1.53	7.64			19.48	8.46	57	0.03	5.0						1200	5	10				723	1	5	
		9/4/2013			1.23	7.64			19.7	8.83	59	0.03	12	2.9	0.3	0.50			1200	5	10				726	1	5	
		9/10/2013			0.43	7.71					17	0.03	12						1300	5	10							
		9/18/2013			0.20	7.46			17.31	7.55	67	0.03	12						1300	5	10							
		9/24/2013			1.71	7.62			17.83	5.71	68	0.03	5.0						1200	5	10							

Table 2: S and G Data Summary
Order Item No. 7
Lehigh Southwest Cement Company Permanente Plant
3rd Quarter 2013

Sample Location	Sample Description	Units Test Method	Flow Rate		Turbidity NTU Field	pH s.u. Field	Chlorine Residual mg/L Field	Temp C Field	DO mg/L Field	Chloride mg/L EPA 300.0			TSS mg/L SM2540D			Total Set Mat mL/L/hr SM2540F			TDS mg/L SM2540C			O&G mg/L EPA 1664			Hardness mg/L SM2340B									
			gpm	MGD						Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL				
23	Pond 9 Discharge cont.	9/24/2013	20	0.029	0.39	7.46	ND			58	0.03	5.0				ND	0.1	0.10	810	5	10													
		9/25/2013	20	0.029	0.39	7.19							2.6	0.3	0.50																			
		9/26/2013	20	0.029	0.63	7.38																												
		9/27/2013	7.5	0.011	2.02	7.30																												
		9/28/2013	20	0.029	0.81	7.51																												
		9/30/2013	20	0.029	0.84	7.54																												
24	Pond 13A/B Downstream RW	7/1/2013			1.00	8.14				16	0.03	5.0							780	5	10													
		7/9/2013			3.04	8.04		22.68	8.29	15	0.03	12							860	5	10													
		7/18/2013			2.30	8.11				16	0.03	5.0							880	5	10													
		7/25/2013			0.89	7.87				18	0.03	5.0							810	5	10													
		7/29/2013			1.06	7.94		18.39	9.56	21	0.03	5.0							890	5	10					531	1	5						
		8/7/2013			1.60	7.68				23	0.03	5.0							820	5	10													
27	Pond 13A Discharge into Pond 13B	8/14/2013			1.56	7.86				21	0.03	5.0						900	5	10														
		7/1/2013	1	0.001	4.39	8.28	ND			55	0.03	5.0				ND	0.1	0.10	1200	5	10													
		7/2/2013	1	0.001	6.85	7.83							3.5	0.3	1.0																			
		7/3/2013	1.5	0.002	6.98	8.29																												
		7/5/2013	1	0.001	6.31	8.25																												
		7/6/2013	3	0.004	4.14	7.11																												
		7/7/2013	1	0.001	5.12	8.35																												
		7/8/2013	1	0.001	5.16	8.30																												
		7/9/2013	1	0.001	5.45	8.27	ND			50	0.03	12				ND	0.1	0.10	1200	5	10													
		7/10/2013	1	0.001	10.10	8.30							8.2	0.3	1.0																			
		7/11/2013	1	0.001	5.45	8.12																												
		7/12/2013	1	0.001	7.33	8.26																												
		7/13/2013	2	0.003	10.09	8.32																												
		7/14/2013	1	0.001	6.50	8.33																												
		7/15/2013	1	0.001	4.91	8.33																												
		7/16/2013	1	0.001	4.58	8.25																												
		7/17/2013	1	0.001	5.26	8.31																												
		7/18/2013	1	0.001	2.64	8.23	ND				55	0.03	5.0				ND	0.1	0.10	1400	5	10												
		7/19/2013	1	0.001	3.12	8.31								3.1	0.3	1.0																		
		7/20/2013	1	0.001	10.14	8.29																												
7/21/2013	1	0.001	2.43	8.30																														
7/22/2013	1	0.001	2.17	8.15																														
7/23/2013	1	0.001	10.22	8.34																														
7/24/2013	2	0.003	4.32	8.23																														
7/25/2013	1	0.001	2.50	8.21	ND				53	0.03	5.0				ND	0.1	0.10	1200	5	10														
7/26/2013	2	0.003	6.04	8.16								1.0	0.3	1.0																				
7/27/2013	1	0.001	2.84	8.16																														
7/29/2013	1	0.001	4.95	8.27	ND				68	0.03	5.0				ND	0.1	0.10	1300	5	10	ND	0.80	5.0											
7/30/2013	1	0.001	4.21	8.24								3.7	0.3	1.0																				
7/31/2013	1	0.001	3.40	8.27																														
8/1/2013	1	0.001	1.85	8.37																														
8/2/2013	1	0.001	1.65	8.33																														
8/3/2013	1	0.001	10.16	8.34																														

Table 3: Metals Summary
Order Item No. 7
Lehigh Southwest Cement Company Permanente Plant
3rd Quarter 2013

Sample Location	Sample Number	Sample Date	Antimony (ug/L)				Arsenic (ug/L)				Beryllium (ug/L)				Cadmium (ug/L)				Copper (ug/L)			
			1638				1638 DRC				1638				1638				1638			
			Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier
Downstream Location	1	9/4/13	0.358	0.010	0.040	J	0.702	0.006	0.025	-	ND	0.051	0.152	-	0.178	0.007	0.020	-	2.33	0.040	0.121	-
Pond 17 DS RW	15	9/13/13	0.760	0.011	0.042	-	0.352	0.006	0.026	-	ND	0.053	0.158	B	0.205	0.007	0.021	-	1.30	0.042	0.126	-
Pond 17	17	9/13/13	2.10	0.011	0.042	-	0.478	0.006	0.026	-	ND	0.053	0.158	-	0.285	0.007	0.021	-	2.48	0.042	0.126	-
Pond 9 DS RW	20	9/4/13	0.598	0.010	0.040	J	0.345	0.006	0.025	-	ND	0.051	0.152	-	0.26	0.007	0.020	-	0.924	0.040	0.121	-
Pond 9	23	9/4/13	0.121	0.010	0.040	J	0.507	0.006	0.025	-	ND	0.051	0.152	N	0.278	0.007	0.020	-	0.88	0.040	0.121	-
Pond 13A/13B	27	9/4/13	0.613	0.010	0.040	J	1.22	0.006	0.025	-	ND	0.051	0.152	-	0.043	0.007	0.020	-	2.83	0.040	0.121	-

Notes:

9/4/13 field and bottle blanks contained concentrations of Cr, Cu, Pb, and Zn above the reporting limit. Ni was also found in the bottle blank.

9/13/2013 field blank contained concentrations of Cr, Cu, Pb, and Zn above the reporting limit.

All locations were grab samples collected via "clean hands/dirty hands" EPA sampling method

B = Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.

DS RW = downstream receiving water

J = Estimated value because blank spike had a low recovery of 70%.

MDL = Method detection limit

N = Spike recovery was not within acceptance criteria. Result is estimated.

ND = Not detected at or above the indicated MDL or RL.

ng/L = nanograms per Liter

RL = Reporting limit

ug/L = micrograms per Liter

Table 3: Metals Summary
Order Item No. 7
Lehigh Southwest Cement Company Permanente Plant
3rd Quarter 2013

Sample Location	Sample Number	Sample Date	Chromium (ug/L)				Hexachrome (ug/L)				Lead (ug/L)				Mercury (ng/L)				Nickel (ug/L)			
			1638 DRC				218.6				1638				1631E				1638 DRC			
			Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier
Downstream Location	1	9/4/13	1.32	0.045	0.152	-	0.26	0.02	0.20	-	0.168	0.006	0.025	-	11.4	0.200	0.500	-	9.27	0.237	1.01	-
Pond 17 DS RW	15	9/13/13	0.148	0.047	0.158	B	0.39	0.02	0.20	-	0.043	0.006	0.026	-	3.45	0.200	0.500	-	6.26	0.247	1.05	-
Pond 17	17	9/13/13	0.425	0.047	0.158	-	0.41	0.02	0.20	-	0.029	0.006	0.026	-	10.8	0.200	0.500	-	8.36	0.247	1.05	-
Pond 9 DS RW	20	9/4/13	0.173	0.045	0.152	-	ND	0.02	0.20	-	0.049	0.006	0.025	-	1.02	0.200	0.500	-	8.54	0.237	1.01	-
Pond 9	23	9/4/13	0.44	0.045	0.152	-	ND	0.02	0.20	-	0.015	0.006	0.025	B	1.46	0.200	0.500	-	1.9	0.237	1.01	-
Pond 13A/13B	27	9/4/13	0.499	0.045	0.152	-	ND	0.02	0.20	-	0.071	0.006	0.025	-	9.22	0.200	0.500	-	3.96	0.237	1.01	-

Notes:

9/4/13 field and bottle blanks contained concentrations of Cr, Cu, Pb, and Zn above the reporting limit. Ni was also found in the bottle blank.

9/13/2013 field blank contained concentrations of Cr, Cu, Pb, and Zn above the reporting limit.

All locations were grab samples collected via "clean hands/dirty hands" EPA sampling method

B = Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.

DS RW = downstream receiving water

J = Estimated value because blank spike had a low recovery of 70%.

MDL = Method detection limit

N = Spike recovery was not within acceptance criteria. Result is estimated.

ND = Not detected at or above the indicated MDL or RL.

ng/L = nanograms per Liter

RL = Reporting limit

ug/L = micrograms per Liter

Table 3: Metals Summary
Order Item No. 7
Lehigh Southwest Cement Company Permanente Plant
3rd Quarter 2013

Sample Location	Sample Number	Sample Date	Selenium (ug/L)				Silver (ug/L)				Thallium (ug/L)				Zinc (ug/L)			
			1638 DRC				1638				1638				1638			
			Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier
Downstream Location	1	9/4/13	1.97	0.023	0.069	-	ND	0.005	0.020	-	0.091	0.003	0.010	-	4.67	0.06	0.20	-
Pond 17 DS RW	15	9/13/13	5.70	0.024	0.072	-	0.012	0.005	0.021	B	0.077	0.003	0.011	-	7.5	0.06	0.21	-
Pond 17	17	9/13/13	19.0	0.024	0.072	-	ND	0.005	0.021	N	0.157	0.003	0.011	-	8.94	0.06	0.21	-
Pond 9 DS RW	20	9/4/13	0.514	0.023	0.069	-	ND	0.005	0.020	-	0.033	0.003	0.010	-	2.16	0.06	0.20	-
Pond 9	23	9/4/13	1.96	0.023	0.069	-	ND	0.005	0.020	-	0.067	0.003	0.010	-	4.83	0.06	0.20	-
Pond 13A/13B	27	9/4/13	2.42	0.023	0.069	-	ND	0.005	0.020	-	0.027	0.003	0.010	-	12.1	0.06	0.20	-

Notes:

9/4/13 field and bottle blanks contained concentrations of Cr, Cu, Pb, and Zn above the reporting limit. Ni was also found in the bottle blank.

9/13/2013 field blank contained concentrations of Cr, Cu, Pb, and Zn above the reporting limit.

All locations were grab samples collected via "clean hands/dirty hands" EPA sampling method

B = Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.

DS RW = downstream receiving water

J = Estimated value because blank spike had a low recovery of 70%.

MDL = Method detection limit

N = Spike recovery was not within acceptance criteria. Result is estimated.

ND = Not detected at or above the indicated MDL or RL.

ng/L = nanograms per Liter

RL = Reporting limit

ug/L = micrograms per Liter

LABORATORY ANALYTICAL RESULTS



alpha

Alpha Analytical Laboratories Inc.

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ELAP Certificate Numbers 1551 and 2728

15 July 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13G0075

Enclosed are the results of analyses for samples received by the laboratory on 07/01/13 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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CHEMICAL EXAMINATION REPORT

Page 1 of 7

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

Report Date: 07/15/13 09:53
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0075	07/01/2013 21:45	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13G0075-01	Water	07/01/13 13:35	07/01/13 21:45
Pond 4A DN R-002A	13G0075-02	Water	07/01/13 12:40	07/01/13 21:45
Pond 9 EFF M-002	13G0075-03	Water	07/01/13 13:00	07/01/13 21:45
Pond 9 UP R-001B	13G0075-04	Water	07/01/13 13:10	07/01/13 21:45
Pond 9 DN R-002B	13G0075-05	Water	07/01/13 13:15	07/01/13 21:45
Pond 13B EFF M-003	13G0075-06	Water	07/01/13 11:55	07/01/13 21:45
Pond 13B DN R-002C	13G0075-07	Water	07/01/13 12:20	07/01/13 21:45

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

7/15/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 7

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

Report Date: 07/15/13 09:53
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0075	07/01/2013 21:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A EFF M-001 (13G0075-01)			Sample Type: Water			Sampled: 07/01/13 13:35		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG30327	07/03/13 09:30	07/09/13 08:30	1	860 mg/l	10	
Turbidity	SM2130B	AG30225	07/02/13 13:00	07/02/13 17:00	"	1.7 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG30219	07/02/13 08:29	07/03/13 01:15	10	15 mg/l	5.0	
Pond 4A DN R-002A (13G0075-02)			Sample Type: Water			Sampled: 07/01/13 12:40		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG30327	07/03/13 09:30	07/09/13 08:30	1	820 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG30219	07/02/13 08:29	07/03/13 01:31	10	16 mg/l	5.0	
Pond 9 EFF M-002 (13G0075-03)			Sample Type: Water			Sampled: 07/01/13 13:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG30327	07/03/13 09:30	07/09/13 08:30	1	1100 mg/l	10	
Turbidity	SM2130B	AG30225	07/02/13 13:00	07/02/13 17:00	"	0.49 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG30219	07/02/13 08:29	07/03/13 01:46	10	48 mg/l	5.0	
Pond 9 UP R-001B (13G0075-04)			Sample Type: Water			Sampled: 07/01/13 13:10		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG30327	07/03/13 09:30	07/09/13 08:30	1	860 mg/l	10	

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

7/15/2013



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CHEMICAL EXAMINATION REPORT

Page 3 of 7

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

Report Date: 07/15/13 09:53
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0075	07/01/2013 21:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 UP R-001B (13G0075-04)			Sample Type: Water			Sampled: 07/01/13 13:10		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG30219	07/02/13 08:29	07/03/13 02:01	10	18 mg/l	5.0	
Pond 9 DN R-002B (13G0075-05)			Sample Type: Water			Sampled: 07/01/13 13:15		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG30327	07/03/13 09:30	07/09/13 08:30	1	940 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG30219	07/02/13 08:29	07/03/13 02:46	10	21 mg/l	5.0	
Pond 13B EFF M-003 (13G0075-06)			Sample Type: Water			Sampled: 07/01/13 11:55		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG30327	07/03/13 09:30	07/09/13 08:30	1	1200 mg/l	10	
Turbidity	SM2130B	AG30225	07/02/13 13:00	07/02/13 17:00	"	7.7 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG30219	07/02/13 08:29	07/03/13 03:01	10	55 mg/l	5.0	
Pond 13B DN R-002C (13G0075-07)			Sample Type: Water			Sampled: 07/01/13 12:20		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG30327	07/03/13 09:30	07/09/13 08:30	1	780 mg/l	10	

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Bruce Gove
Laboratory Director

7/15/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 7

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

Report Date: 07/15/13 09:53
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0075	07/01/2013 21:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 13B DN R-002C (13G0075-07)			Sample Type: Water			Sampled: 07/01/13 12:20		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG30219	07/02/13 08:29	07/03/13 03:16	10	16 mg/l	5.0	

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Bruce Gove
Laboratory Director

7/15/2013



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CHEMICAL EXAMINATION REPORT

Page 6 of 7

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

Report Date: 07/15/13 09:53
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0075	07/01/2013 21:45	SEL HANSONCUP	

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG30219 - General Preparation										
Blank (AG30219-BLK1)				Prepared & Analyzed: 07/02/13						
Chloride	ND	0.50	mg/l							
LCS (AG30219-BS1)				Prepared & Analyzed: 07/02/13						
Chloride	11.2	0.50	mg/l	11.1	101	90-110				
Duplicate (AG30219-DUP1)				Source: 13G0092-01 Prepared & Analyzed: 07/02/13						
Chloride	62.3	5.0	mg/l		62.0			0.434	20	
Matrix Spike (AG30219-MS1)				Source: 13G0092-01 Prepared & Analyzed: 07/02/13						
Chloride	73.4	5.0	mg/l	11.1	62.0	102	80-120			
Matrix Spike (AG30219-MS2)				Source: 13G0054-01 Prepared & Analyzed: 07/02/13						
Chloride	100	2.5	mg/l	11.1	87.5	114	80-120			
Matrix Spike Dup (AG30219-MSD1)				Source: 13G0092-01 Prepared & Analyzed: 07/02/13						
Chloride	73.2	5.0	mg/l	11.1	62.0	101	80-120	0.167	20	

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Bruce Gove
Laboratory Director

7/15/2013



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CHEMICAL EXAMINATION REPORT

Page 7 of 7

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

Report Date: 07/15/13 09:53
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0075	07/01/2013 21:45	SEL HANSONCUP	

Notes and Definitions

- 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

7/15/2013



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. Invoice to High 1360075

PROJECT NO.: 063-7109-914		SITE NAME: Lehigh St. 6 permit		ANALYSES TDS, Chloride Turbidity SS, TDS, Chloride		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
SAMPLER(S): David Walter (printed)		David C. Galt (signature)				EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
CONTRACT LABORATORY: TURN-AROUND TIME:		Alpha standard		Container Info		Remarks			
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol	Filter	Preserv.	Cont. Qty.
		Date	Time						
Pond 4A Eff M-001		7-1-13	1335	W		IL 500ml IL	N	N	2
Pond 4A DN R-002A			1240				N	N	1
Pond 9 Eff M-002			1300				N	N	1
Pond 9 UP R-001B			1310				N	N	1
Pond 9 DN R-002B			1315				N	N	1
Pond 13B Eff M-003			1155				N	N	1
Pond 13B DN R-002C			1220				N	N	1

Relinquished by: (signature) <i>David C. Galt</i>	Received by: (signature) <i>[Signature]</i>	Date/Time 7-1-13 1505	SEND RESULTS TO: Attn: George Wegmann, Greg Knapp, Chow Yip Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224
Relinquished by: (signature) <i>[Signature]</i>	Received by: (signature) <i>[Signature]</i>	Date/Time 7-1-13 1830	
Relinquished by: (signature) <i>[Signature]</i>	Received by: (signature) <i>[Signature]</i>	Date/Time 7-1-13 2145	



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ELAP Certificate Numbers 1551 and 2728

15 July 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13G0224

Enclosed are the results of analyses for samples received by the laboratory on 07/03/13 21:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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CHEMICAL EXAMINATION REPORT

Page 1 of 4

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

Report Date: 07/15/13 12:55
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0224	07/03/2013 21:15	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Comp	13G0224-01	Water	07/02/13 16:15	07/03/13 21:15
Pond 9 Comp	13G0224-02	Water	07/02/13 14:15	07/03/13 21:15
Pond 13B Comp	13G0224-03	Water	07/02/13 13:55	07/03/13 21:15

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Bruce Gove
Laboratory Director

7/15/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 4

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

Report Date: 07/15/13 12:55
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0224	07/03/2013 21:15	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A Comp (13G0224-01)			Sample Type: Water			Sampled: 07/02/13 16:15		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG30840	07/08/13 11:08	07/09/13 12:07	1	ND mg/l	1.0	
Pond 9 Comp (13G0224-02)			Sample Type: Water			Sampled: 07/02/13 14:15		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG30840	07/08/13 11:08	07/09/13 12:07	1	2.2 mg/l	1.0	
Pond 13B Comp (13G0224-03)			Sample Type: Water			Sampled: 07/02/13 13:55		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG30840	07/08/13 11:08	07/09/13 12:07	1	3.5 mg/l	1.0	

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Bruce Gove
Laboratory Director

7/15/2013



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CHEMICAL EXAMINATION REPORT

Page 3 of 4

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

Report Date: 07/15/13 12:55
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0224	07/03/2013 21:15	SEL HANSONCUP	

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
Batch AG30840 - General Preparation										
Blank (AG30840-BLK1)				Prepared: 07/08/13 Analyzed: 07/09/13						
Total Suspended Solids	ND	1.0	mg/l							
Duplicate (AG30840-DUP1)				Source: 13G0101-01 Prepared: 07/08/13 Analyzed: 07/09/13						
Total Suspended Solids	5400	1.0	mg/l		5520			2.14	30	
Duplicate (AG30840-DUP2)				Source: 13G0158-03 Prepared: 07/08/13 Analyzed: 07/09/13						
Total Suspended Solids	467	1.0	mg/l		420			10.5	30	

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Bruce Gove
Laboratory Director

7/15/2013



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Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

CHEMICAL EXAMINATION REPORT

Page 4 of 4

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

Report Date: 07/15/13 12:55
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0224	07/03/2013 21:15	SEL HANSONCUP	

Notes and Definitions

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

7/15/2013



Golder Associates CHAIN OF CUSTODY

1360224

Page 1 of 1
Quotation No. Invoice Lehigh

PROJECT NO.: 063-7109-914		SITE NAME: Lehigh STG permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): David Walker		David Kault		CONTAINER INFO		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CONTRACT LABORATORY: Alpha Standard		Collection Date		Type/Vol. Filter Preserv.		Remarks	
TURN-AROUND TIME:		Time		Depth		Cont. Qty.	
Sample I.D.	Lab I.D.	Date	Time	Matrix	Depth	Cont. Qty.	Remarks
Pond 4th Comp		7-2-13	1615	W		1	
Pond 9 Comp			1415			1	
Pond 13B Comp			1355			1	
Relinquished by (signature): David Chalters		Received by (signature): Supl		Date/Time: 7-3-13 1303		SEND RESULTS TO: Attn: George Wegmann, Greg Knapp, Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Relinquished by (signature): Supl		Received by (signature): R. Wirt		Date/Time: 7-3-13 1825			
Relinquished by (signature): R. Wirt		Received by (signature): Mike R. Wirt		Date/Time: 7-3-13 2115			

white, lab copy
yellow, project file



alpha

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ELAP Certificate Numbers 1551 and 2728

24 July 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13G0444

Enclosed are the results of analyses for samples received by the laboratory on 07/09/13 22:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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CHEMICAL EXAMINATION REPORT

Page 1 of 7

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

Report Date: 07/24/13 13:38
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0444	07/09/2013 22:00	SEL HANSONCUP	4500486111-Line #1

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13G0444-01	Water	07/09/13 14:30	07/09/13 22:00
Pond 4A DN R-002A	13G0444-02	Water	07/09/13 13:00	07/09/13 22:00
Pond 9 EFF M-002	13G0444-03	Water	07/09/13 13:45	07/09/13 22:00
Pond 9 UP R-001B	13G0444-04	Water	07/09/13 13:55	07/09/13 22:00
Pond 9 DN R-002B	13G0444-05	Water	07/09/13 14:00	07/09/13 22:00
Pond 13B EFF M-003	13G0444-06	Water	07/09/13 13:20	07/09/13 22:00
Pond 13B DN R-002C	13G0444-07	Water	07/09/13 12:40	07/09/13 22:00

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Bruce Gove
Laboratory Director

7/24/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 7

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

Report Date: 07/24/13 13:38
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u> 13G0444	<u>Receipt Date/Time</u> 07/09/2013 22:00	<u>Client Code</u> SEL HANSONCUP	<u>Client PO/Reference</u> 4500486111-Line #1
--------------------------------	--	-------------------------------------	--

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A EFF M-001 (13G0444-01)			Sample Type: Water			Sampled: 07/09/13 14:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG31524	07/15/13 10:30	07/16/13 16:15	1	880 mg/l	10	
Turbidity	SM2130B	AG31134	07/10/13 14:00	07/10/13 17:00	"	12 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG31302	07/13/13 10:15	07/13/13 12:46	25	16 mg/l	12	
Pond 4A DN R-002A (13G0444-02)			Sample Type: Water			Sampled: 07/09/13 13:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG31524	07/15/13 10:30	07/16/13 16:15	1	840 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG31302	07/13/13 10:15	07/13/13 13:01	25	16 mg/l	12	
Pond 9 EFF M-002 (13G0444-03)			Sample Type: Water			Sampled: 07/09/13 13:45		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG31524	07/15/13 10:30	07/16/13 16:15	1	1100 mg/l	10	
Turbidity	SM2130B	AG31134	07/10/13 14:00	07/10/13 17:00	"	1.3 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG31302	07/13/13 10:15	07/13/13 13:17	25	46 mg/l	12	
Pond 9 UP R-001B (13G0444-04)			Sample Type: Water			Sampled: 07/09/13 13:55		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG31524	07/15/13 10:30	07/16/13 16:15	1	930 mg/l	10	

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

7/24/2013



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CHEMICAL EXAMINATION REPORT

Page 3 of 7

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

Report Date: 07/24/13 13:38
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u> 13G0444	<u>Receipt Date/Time</u> 07/09/2013 22:00	<u>Client Code</u> SEL HANSONCUP	<u>Client PO/Reference</u> 4500486111-Line #1
--------------------------------	--	-------------------------------------	--

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 UP R-001B (13G0444-04)			Sample Type: Water			Sampled: 07/09/13 13:55		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG31302	07/13/13 10:15	07/13/13 13:32	25	19 mg/l	12	
Pond 9 DN R-002B (13G0444-05)			Sample Type: Water			Sampled: 07/09/13 14:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG31524	07/15/13 10:30	07/16/13 16:15	1	940 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG31302	07/13/13 10:15	07/13/13 13:47	25	21 mg/l	12	
Pond 13B EFF M-003 (13G0444-06)			Sample Type: Water			Sampled: 07/09/13 13:20		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG31524	07/15/13 10:30	07/16/13 16:15	1	1200 mg/l	10	
Turbidity	SM2130B	AG31134	07/10/13 14:00	07/10/13 17:00	"	12 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG31302	07/13/13 10:15	07/13/13 14:02	25	50 mg/l	12	
Pond 13B DN R-002C (13G0444-07)			Sample Type: Water			Sampled: 07/09/13 12:40		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG31524	07/15/13 10:30	07/16/13 16:15	1	860 mg/l	10	

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Bruce Gove
Laboratory Director

7/24/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 7

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

Report Date: 07/24/13 13:38
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0444	07/09/2013 22:00	SEL HANSONCUP	4500486111-Line #1

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 13B DN R-002C (13G0444-07)			Sample Type: Water			Sampled: 07/09/13 12:40		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG31302	07/13/13 10:15	07/13/13 14:17	25	15 mg/l	12	

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Bruce Gove
Laboratory Director

7/24/2013



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CHEMICAL EXAMINATION REPORT

Page 6 of 7

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

Report Date: 07/24/13 13:38
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0444	07/09/2013 22:00	SEL HANSONCUP	4500486111-Line #1

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG31302 - General Preparation										
Blank (AG31302-BLK1)				Prepared & Analyzed: 07/13/13						
Chloride	ND	0.50	mg/l							
LCS (AG31302-BS1)				Prepared & Analyzed: 07/13/13						
Chloride	10.1	0.50	mg/l	10.0		101	90-110			
Duplicate (AG31302-DUP1)				Source: 13G0545-01 Prepared & Analyzed: 07/13/13						
Chloride	77.4	2.5	mg/l		77.8			0.535	20	
Matrix Spike (AG31302-MS1)				Source: 13G0545-01 Prepared & Analyzed: 07/13/13						
Chloride	89.8	2.5	mg/l	11.1	77.8	107	80-120			
Matrix Spike (AG31302-MS2)				Source: 13G0601-01 Prepared & Analyzed: 07/13/13						
Chloride	46.6	2.5	mg/l	11.1	34.1	112	80-120			
Matrix Spike Dup (AG31302-MSD1)				Source: 13G0545-01 Prepared & Analyzed: 07/13/13						
Chloride	89.7	2.5	mg/l	11.1	77.8	107	80-120	0.105	20	

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Bruce Gove
Laboratory Director

7/24/2013



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CHEMICAL EXAMINATION REPORT

Page 7 of 7

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

Report Date: 07/24/13 13:38
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0444	07/09/2013 22:00	SEL HANSONCUP	4500486111-Line #1

Notes and Definitions

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

7/24/2013



Golder Associates CHAIN OF CUSTODY

1360444

Page of
Quotation No. Invisic Lehigh

Target

PROJECT NO:		SITE NAME:		ANALYSES		EDD required?		EDF required?		Remarks
063-7109-914		Lehigh St G		Turbidity TSS, Chloride		Yes No		Yes No		
SAMPLER(S): David Walter <small>(printed)</small>		David C Matt <small>(signature)</small>		Container Info						Cont. Qty.
CONTRACT LABORATORY: Alpha		Standard		Type/Vol.						
TURN-AROUND TIME:		7-9-13		Matrix		Depth				2
		1430 W								
Sample I.D.	Lab I.D.	Date	Time							2
Pond 4A Eff M-001		7-9-13	1300							
Pond 4A DN R-002A			1345							1
Pond 9 Eff M-002			1355							
Pond 9 UP R-001B			1400							1
Pond 9 DN R-002B			1320							
Pond 13B Eff M-003			1240							1
Pond 13B DN R-002C										

SEND RESULTS TO:
 Attn: George Wegmann, Chew Lip,
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224

Date/Time	1449
Date/Time	1900
Date/Time	2200

Received by: (signature)
 Received by: (signature)
 Received by: (signature)

Relinquished by: (signature)
 Relinquished by: (signature)
 Relinquished by: (signature)



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ELAP Certificate Numbers 1551 and 2728

19 July 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13G0554

Enclosed are the results of analyses for samples received by the laboratory on 07/10/13 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

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CHEMICAL EXAMINATION REPORT

Page 1 of 4

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

Report Date: 07/19/13 10:11
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0554	07/10/2013 21:50	SEL HANSONCUP	4500486111-Line #1

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Comp	13G0554-01	Water	07/10/13 13:25	07/10/13 21:50
Pond 9 Comp	13G0554-02	Water	07/10/13 14:20	07/10/13 21:50
Pond 13B Comp	13G0554-03	Water	07/10/13 13:55	07/10/13 21:50

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Bruce Gove
Laboratory Director

7/19/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 4

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

Report Date: 07/19/13 10:11
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0554	07/10/2013 21:50	SEL HANSONCUP	4500486111-Line #1

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A Comp (13G0554-01)			Sample Type: Water			Sampled: 07/10/13 13:25		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG31119	07/11/13 08:07	07/12/13 08:55	1	ND mg/l	1.0	
Pond 9 Comp (13G0554-02)			Sample Type: Water			Sampled: 07/10/13 14:20		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG31119	07/11/13 08:07	07/12/13 08:55	1	ND mg/l	1.0	
Pond 13B Comp (13G0554-03)			Sample Type: Water			Sampled: 07/10/13 13:55		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG31119	07/11/13 08:07	07/12/13 08:55	1	8.2 mg/l	1.0	

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Bruce Gove
Laboratory Director

7/19/2013



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Attn: Chow Yip

Report Date: 07/19/13 10:11
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0554	07/10/2013 21:50	SEL HANSONCUP	4500486111-Line #1

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
Batch AG31119 - General Preparation										
Blank (AG31119-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Total Suspended Solids	ND	1.0	mg/l							
Duplicate (AG31119-DUP1)				Source: 13G0443-01 Prepared: 07/11/13 Analyzed: 07/12/13						
Total Suspended Solids	1190	1.0	mg/l		1210			1.86	30	
Duplicate (AG31119-DUP2)				Source: 13G0461-01 Prepared: 07/11/13 Analyzed: 07/12/13						
Total Suspended Solids	184	1.0	mg/l		179			2.92	30	

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Bruce Gove
Laboratory Director

7/19/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 4

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
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Attn: Chow Yip

Report Date: 07/19/13 10:11
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G0554	07/10/2013 21:50	SEL HANSONCUP	4500486111-Line #1

Notes and Definitions

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- 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

7/19/2013



Golder Associates
CHAIN OF CUSTODY

1360554

Page 1 of 1

Quotation No. *Invoice Lehigh*

PROJECT NO.: 063-7109-914		SITE NAME: <i>Lehigh STG permit</i>		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
SAMPLER(S): <i>David Walter</i> <small>(printed)</small>		<i>David C Valt</i> <small>(signature)</small>		Container Info Type/Vol. Filter Preserv.		Cont. Qty.		Remarks	
CONTRACT LABORATORY: Alpha Standard		Matrix Depth							
TURN-AROUND TIME:		Collection		Type/Vol. Filter Preserv.		Cont. Qty.		Remarks	
Sample I.D.	Lab I.D.	Date	Time	Matrix	Depth	Type/Vol. Filter Preserv.	Cont. Qty.	Remarks	
Pond 4A Comp		7-10-13	1325	W		IL	1		
Pond 9 Comp		↓	1420			N	1		
Pond 13B Comp		↓	1355			-	1		

Relinquished by: (signature) <i>David C Valt</i>	Received by: (signature) <i>[Signature]</i>	Date/Time: 7-10-13	1500
Relinquished by: (signature) <i>[Signature]</i>	Received by: (signature) <i>[Signature]</i>	Date/Time: 7-10-13	1855
Relinquished by: (signature) <i>[Signature]</i>	Received by: (signature) <i>[Signature]</i>	Date/Time: 7-10-13	2150

SEND RESULTS TO:
 Attn: *George Wegmann, Chow Yip, Greg Knapp*
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

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

ELAP Certificate Numbers 1551 and 2728

01 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Pond Discharge

Work Order: 13G1074

Enclosed are the results of analyses for samples received by the laboratory on 07/18/13 21:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



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CHEMICAL EXAMINATION REPORT

Page 1 of 7

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

Report Date: 08/01/13 10:59
Project No: 063-7109-914
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1074	07/18/2013 21:15	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13G1074-01	Water	07/18/13 10:40	07/18/13 21:15
Pond 4A DN R-002A	13G1074-02	Water	07/18/13 12:50	07/18/13 21:15
Pond 9 EFF M-002	13G1074-03	Water	07/18/13 13:20	07/18/13 21:15
Pond 9 UP R-001B	13G1074-04	Water	07/18/13 13:25	07/18/13 21:15
Pond 9 DN R-002B	13G1074-05	Water	07/18/13 13:30	07/18/13 21:15
Pond 13B M-003	13G1074-06	Water	07/18/13 12:20	07/18/13 21:15
Pond 13B DN R-002C	13G1074-07	Water	07/18/13 12:35	07/18/13 21:15

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

8/1/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 7

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

Report Date: 08/01/13 10:59
Project No: 063-7109-914
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1074	07/18/2013 21:15	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A EFF M-001 (13G1074-01)			Sample Type: Water			Sampled: 07/18/13 10:40		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32447	07/24/13 13:45	07/31/13 12:30	1	830 mg/l	10	
Turbidity	SM2130B	AG32233	07/19/13 14:00	07/19/13 17:00	"	4.4 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32530	07/25/13 08:13	07/25/13 09:32	10	15 mg/l	5.0	
Pond 4A DN R-002A (13G1074-02)			Sample Type: Water			Sampled: 07/18/13 12:50		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32447	07/24/13 13:45	07/31/13 12:30	1	910 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32530	07/25/13 08:13	07/25/13 09:47	10	17 mg/l	5.0	
Pond 9 EFF M-002 (13G1074-03)			Sample Type: Water			Sampled: 07/18/13 13:20		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32447	07/24/13 13:45	07/31/13 12:30	1	1100 mg/l	10	
Turbidity	SM2130B	AG32233	07/19/13 14:00	07/19/13 17:00	"	0.57 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32530	07/25/13 08:13	07/25/13 10:02	10	46 mg/l	5.0	
Pond 9 UP R-001B (13G1074-04)			Sample Type: Water			Sampled: 07/18/13 13:25		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32447	07/24/13 13:45	07/31/13 12:30	1	940 mg/l	10	

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Bruce Gove
Laboratory Director

8/1/2013



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CHEMICAL EXAMINATION REPORT

Page 3 of 7

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

Report Date: 08/01/13 10:59
Project No: 063-7109-914
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1074	07/18/2013 21:15	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 UP R-001B (13G1074-04)			Sample Type: Water			Sampled: 07/18/13 13:25		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32530	07/25/13 08:13	07/25/13 10:17	10	18 mg/l	5.0	
Pond 9 DN R-002B (13G1074-05)			Sample Type: Water			Sampled: 07/18/13 13:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32447	07/24/13 13:45	07/31/13 12:30	1	920 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32530	07/25/13 08:13	07/26/13 13:57	1	22 mg/l	0.50	
Pond 13B M-003 (13G1074-06)			Sample Type: Water			Sampled: 07/18/13 12:20		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32447	07/24/13 13:45	07/31/13 12:30	1	1400 mg/l	10	
Turbidity	SM2130B	AG32233	07/19/13 14:00	07/19/13 17:00	"	5.6 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32530	07/25/13 08:13	07/25/13 10:47	10	55 mg/l	5.0	
Pond 13B DN R-002C (13G1074-07)			Sample Type: Water			Sampled: 07/18/13 12:35		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32447	07/24/13 13:45	07/31/13 12:30	1	880 mg/l	10	

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Bruce Gove
Laboratory Director

8/1/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 7

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

Report Date: 08/01/13 10:59
Project No: 063-7109-914
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1074	07/18/2013 21:15	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 13B DN R-002C (13G1074-07)			Sample Type: Water			Sampled: 07/18/13 12:35		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32530	07/25/13 08:13	07/25/13 11:02	10	16 mg/l	5.0	

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Bruce Gove
Laboratory Director

8/1/2013



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CHEMICAL EXAMINATION REPORT

Page 5 of 7

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

Report Date: 08/01/13 10:59
Project No: 063-7109-914
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1074	07/18/2013 21:15	SEL HANSONCUP	

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
Batch AG32447 - General Preparation										
Blank (AG32447-BLK1)				Prepared: 07/24/13 Analyzed: 07/31/13						
Total Dissolved Solids	ND	10	mg/l							
Duplicate (AG32447-DUP1)				Source: 13G1056-01 Prepared: 07/24/13 Analyzed: 07/31/13						
Total Dissolved Solids	239	10	mg/l		236			1.26	30	
Duplicate (AG32447-DUP2)				Source: 13G1074-07 Prepared: 07/24/13 Analyzed: 07/31/13						
Total Dissolved Solids	852	10	mg/l		884			3.69	30	

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Bruce Gove
Laboratory Director

8/1/2013



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CHEMICAL EXAMINATION REPORT

Page 6 of 7

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

Report Date: 08/01/13 10:59
Project No: 063-7109-914
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1074	07/18/2013 21:15	SEL HANSONCUP	

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG32530 - General Preparation										
Blank (AG32530-BLK1)				Prepared & Analyzed: 07/25/13						
Chloride	ND	0.50	mg/l							
LCS (AG32530-BS1)				Prepared & Analyzed: 07/25/13						
Chloride	11.1	0.50	mg/l	11.1		99.8	90-110			
Duplicate (AG32530-DUP1)				Source: 13G1378-01 Prepared & Analyzed: 07/25/13						
Chloride	74.3	5.0	mg/l		74.3			0.108	20	
Matrix Spike (AG32530-MS1)				Source: 13G1378-01 Prepared & Analyzed: 07/25/13						
Chloride	88.8	5.0	mg/l	11.1	74.3	130	80-120			QM-05
Matrix Spike (AG32530-MS2)				Source: 13G1395-01 Prepared & Analyzed: 07/25/13						
Chloride	26.2	2.5	mg/l	11.1	15.5	96.0	80-120			
Matrix Spike Dup (AG32530-MSD1)				Source: 13G1378-01 Prepared & Analyzed: 07/25/13						
Chloride	89.3	5.0	mg/l	11.1	74.3	134	80-120	0.524	20	QM-05

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Bruce Gove
Laboratory Director

8/1/2013



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CHEMICAL EXAMINATION REPORT

Page 7 of 7

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

Report Date: 08/01/13 10:59
Project No: 063-7109-914
Project ID: Pond Discharge

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1074	07/18/2013 21:15	SEL HANSONCUP	

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- 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

8/1/2013



Golder Associates CHAIN OF CUSTODY

1361021

Page 1 of 1
Quotation No. Invoice Lehigh

PROJECT NO.:		SITE NAME:		ANALYSES				
063-7109-914		Lehigh St & G permit		Turbidity TDS, chloride				
SAMPLER(S): David Walker (printed)		David C. Velt (signature)		SS, TDS, chloride				
CONTRACT LABORATORY:		Alpha						
TURN-AROUND TIME:		standard						
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol. Filter Preserv.	Cont. Qty.	Remarks
		Date	Time					
Pond 4A Eff M-001		7-18-13	1040	W		1 L 500ml IL	2	
Pond 4A DN R-002A			1250				1	
Pond 9 Eff M-002			1320				1	
Pond 9 400001/B			1325				1	
Pond 9 DN R-002B			1330				1	
Pond 13B M-003			1220				1	
Pond 13B DN R-002C			1235				1	
Relinquished by: (signature) David C. Velt		Received by: (signature) [Signature]		Date/Time: 7-18-13 1320		SEND RESULTS TO:		
Relinquished by: (signature) [Signature]		Received by: (signature) [Signature]		Date/Time: 7-18-13 1400		Attn: George Wegmann, Greg Knappi		
Relinquished by: (signature) [Signature]		Received by: (signature) [Signature]		Date/Time: 7-18-13 1510		Golder Associates Inc.		
		Received by: (signature) [Signature]		Date/Time: 7-18-13 2115		425 Lakeside Drive		
						Sunnyvale, CA 94085		
						Phone (408) 220-9223		
						Fax (408) 220-9224		



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ELAP Certificate Numbers 1551 and 2728

01 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13G1137

Enclosed are the results of analyses for samples received by the laboratory on 07/19/13 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



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CHEMICAL EXAMINATION REPORT

Page 1 of 4

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

Report Date: 08/01/13 11:10
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1137	07/19/2013 21:40	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Comp	13G1137-01	Water	07/19/13 12:40	07/19/13 21:40
Pond 9 Comp	13G1137-02	Water	07/19/13 13:10	07/19/13 21:40
Pond 13B Comp	13G1137-03	Water	07/19/13 12:15	07/19/13 21:40

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Bruce Gove
Laboratory Director

8/1/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 4

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

Report Date: 08/01/13 11:10
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1137	07/19/2013 21:40	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A Comp (13G1137-01)			Sample Type: Water			Sampled: 07/19/13 12:40		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG32247	07/22/13 10:59	07/23/13 14:14	1	1.7 mg/l	1.0	
Pond 9 Comp (13G1137-02)			Sample Type: Water			Sampled: 07/19/13 13:10		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG32247	07/22/13 10:59	07/23/13 14:14	1	2.3 mg/l	1.0	
Pond 13B Comp (13G1137-03)			Sample Type: Water			Sampled: 07/19/13 12:15		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG32247	07/22/13 10:59	07/23/13 14:14	1	3.1 mg/l	1.0	

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Bruce Gove
Laboratory Director

8/1/2013



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CHEMICAL EXAMINATION REPORT

Page 3 of 4

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

Report Date: 08/01/13 11:10
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

Order Number 13G1137 Receipt Date/Time 07/19/2013 21:40 Client Code SEL HANSONCUP Client PO/Reference

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Includes rows for Blank (AG32247-BLK1) and Duplicate (AG32247-DUP1) for Total Suspended Solids.

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 I. Gove (Signature)

Bruce Gove
Laboratory Director

8/1/2013



Alpha

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CHEMICAL EXAMINATION REPORT

Page 4 of 4

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

Report Date: 08/01/13 11:10
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1137	07/19/2013 21:40	SEL HANSONCUP	

Notes and Definitions

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

8/1/2013



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. Invoice 66137

PROJECT NO.: 063-7109-914		SITE NAME: Lehigh STG permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): David Walter <small>(printed)</small>		David C. Malt <small>(signature)</small>		<div style="text-align: center; font-size: 2em;">53</div>			
CONTRACT LABORATORY: Alpha Standard		Container Info					
TURN-AROUND TIME:		Type/Vol. Filter Preserv.		Cont. Qty.		Remarks	
Sample I.D.	Lab I.D.	Collection Date	Collection Time	Matrix	Depth		
Pond 4A Comp.		7-19-13	1240	W		1	
Pond 9 Comp.		↓	1310			1	
Pond 13B Comp.		↓	1215			1	
Retinquished by (signature) David C. Malt		Received by (signature) [Signature]		Date/Time 7-19-13		SEND RESULTS TO: Attn: George Wegmann, Greg Knapp, Chow Yip Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Retinquished by (signature) [Signature]		Received by (signature) R. Luvon		Date/Time 7-19-13			
Retinquished by (signature) [Signature]		Received by (signature) [Signature]		Date/Time 7-19-13			



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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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

06 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13G1409

Enclosed are the results of analyses for samples received by the laboratory on 07/25/13 22:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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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: Chow Yip

Report Date: 08/06/13 15:06
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1409	07/25/2013 22:00	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A DN R-002A	13G1409-01	Water	07/25/13 12:05	07/25/13 22:00
Pond 9 EFF M-002	13G1409-02	Water	07/25/13 12:35	07/25/13 22:00
Pond 9 UP R-001B	13G1409-03	Water	07/25/13 12:45	07/25/13 22:00
Pond 9 DN R-002B	13G1409-04	Water	07/25/13 12:50	07/25/13 22:00
Pond 13B EFF M-003	13G1409-05	Water	07/25/13 11:15	07/25/13 22:00
Pond 13B DN R-002C	13G1409-06	Water	07/25/13 11:40	07/25/13 22:00

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Bruce Gove
Laboratory Director

8/6/2013



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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: Chow Yip

Report Date: 08/06/13 15:06
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1409	07/25/2013 22:00	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A DN R-002A (13G1409-01)			Sample Type: Water			Sampled: 07/25/13 12:05		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32924	07/29/13 09:15	08/01/13 08:45	1	890 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32942	07/29/13 11:08	07/29/13 15:16	10	25 mg/l	5.0	
Pond 9 EFF M-002 (13G1409-02)			Sample Type: Water			Sampled: 07/25/13 12:35		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32924	07/29/13 09:15	08/01/13 08:45	1	1000 mg/l	10	
Turbidity	SM2130B	AG32621	07/26/13 13:00	07/26/13 17:00	"	0.46 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32942	07/29/13 11:08	07/29/13 15:31	10	46 mg/l	5.0	
Pond 9 UP R-001B (13G1409-03)			Sample Type: Water			Sampled: 07/25/13 12:45		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32924	07/29/13 09:15	08/01/13 08:45	1	910 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32942	07/29/13 11:08	07/29/13 16:16	10	23 mg/l	5.0	
Pond 9 DN R-002B (13G1409-04)			Sample Type: Water			Sampled: 07/25/13 12:50		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32924	07/29/13 09:15	08/01/13 08:45	1	990 mg/l	10	

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

8/6/2013



Alpha

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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: Chow Yip

Report Date: 08/06/13 15:06
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1409	07/25/2013 22:00	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 DN R-002B (13G1409-04)			Sample Type: Water			Sampled: 07/25/13 12:50		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32942	07/29/13 11:08	07/29/13 16:31	10	33 mg/l	5.0	
Pond 13B EFF M-003 (13G1409-05)			Sample Type: Water			Sampled: 07/25/13 11:15		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32924	07/29/13 09:15	08/01/13 08:45	1	1200 mg/l	10	
Turbidity	SM2130B	AG32621	07/26/13 13:00	07/26/13 17:00	"	4.8 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32942	07/29/13 11:08	07/29/13 17:01	10	53 mg/l	5.0	
Pond 13B DN R-002C (13G1409-06)			Sample Type: Water			Sampled: 07/25/13 11:40		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG32924	07/29/13 09:15	08/01/13 08:45	1	810 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AG32942	07/29/13 11:08	07/29/13 17:16	10	18 mg/l	5.0	

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Bruce Gove
Laboratory Director

8/6/2013



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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: Chow Yip

Report Date: 08/06/13 15:06
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1409	07/25/2013 22:00	SEL HANSONCUP	

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
Batch AG32924 - General Preparation										
Blank (AG32924-BLK1)				Prepared: 07/29/13 Analyzed: 08/01/13						
Total Dissolved Solids	ND	10	mg/l							
Duplicate (AG32924-DUP1)				Source: 13G1407-02 Prepared: 07/29/13 Analyzed: 08/01/13						
Total Dissolved Solids	260	10	mg/l		269			3.40	30	
Duplicate (AG32924-DUP2)				Source: 13G1409-01 Prepared: 07/29/13 Analyzed: 08/01/13						
Total Dissolved Solids	828	10	mg/l		888			6.99	30	

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Bruce Gove
Laboratory Director

8/6/2013



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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: Chow Yip

Report Date: 08/06/13 15:06
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1409	07/25/2013 22:00	SEL HANSONCUP	

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG32942 - General Preparation										
Blank (AG32942-BLK1)				Prepared & Analyzed: 07/29/13						
Chloride	ND	0.50	mg/l							
LCS (AG32942-BS1)				Prepared & Analyzed: 07/29/13						
Chloride	11.1	0.50	mg/l	11.1		100	90-110			
Duplicate (AG32942-DUP1)				Source: 13G1412-03 Prepared & Analyzed: 07/29/13						
Chloride	37.2	1.0	mg/l		37.1			0.199	20	
Matrix Spike (AG32942-MS1)				Source: 13G1412-03 Prepared & Analyzed: 07/29/13						
Chloride	48.1	1.0	mg/l	11.1	37.1	99.0	80-120			
Matrix Spike (AG32942-MS2)				Source: 13G1417-03 Prepared & Analyzed: 07/29/13						
Chloride	19.8	2.5	mg/l	11.1	8.58	101	80-120			
Matrix Spike Dup (AG32942-MSD1)				Source: 13G1412-03 Prepared & Analyzed: 07/29/13						
Chloride	48.4	1.0	mg/l	11.1	37.1	101	80-120	0.451	20	

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Bruce Gove
Laboratory Director

8/6/2013



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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: Chow Yip

Report Date: 08/06/13 15:06
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1409	07/25/2013 22:00	SEL HANSONCUP	

Notes and Definitions

- 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

8/6/2013



Golder Associates
CHAIN OF CUSTODY

13G1409

Page 1 of 1

Quotation No. Invoice Lehigh

PROJECT NO.:		SITE NAME:		ANALYSES				EDD required?	
063-7109-914		Lehigh STE Weekly		SS, TDS, Chloride Turbidity TDS, Chloride				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): David Walter (printed)		David C. Valt (signature)						EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CONTRACT LABORATORY: Alpha		CONTAINER INFO:		Type/Vol.		Cont. Qty.		Remarks	
TURN-AROUND TIME: Standard		Matrix		Filter Preserv.					
Sample I.D.	Lab I.D.	Collection		Depth					
		Date	Time						
Pond 4A DN R-002A		7-25-13	1205	W				1	
Pond 9 EFF M-002			1235					2	
Pond 9 4P R-002B			1245					1	
Pond 9 DN R-002B			1250					1	
Pond 13B EFF M-003			1115					2	
Pond 13B DN R-002C			1140					1	

Relinquished by (signature)
 David C. Valt

Relinquished by (signature)
 R Walter

Received by (signature)
 R Walter

Date/Time
 7-25-13 1330

SEND RESULTS TO:
 Attn: George Wegmann, Greg Knappi
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224



alpha

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ELAP Certificate Numbers 1551 and 2728

13 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13G1487

Enclosed are the results of analyses for samples received by the laboratory on 07/29/13 22:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sheri Speaks

Sheri L. Speaks For Robbie C. Phillips
Project Manager



Alpha

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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: Chow Yip

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1487	07/29/2013 22:45	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13G1487-01	Water	07/29/13 10:30	07/29/13 22:45
Pond 4A DN R-002A	13G1487-02	Water	07/29/13 12:30	07/29/13 22:45
Pond 9 EFF M-002	13G1487-03	Water	07/29/13 13:05	07/29/13 22:45
Pond 9UP R-001B	13G1487-04	Water	07/29/13 13:15	07/29/13 22:45
Pond 9DN R-002B	13G1487-05	Water	07/29/13 13:25	07/29/13 22:45
Pond 13 EFF M-003	13G1487-06	Water	07/29/13 11:30	07/29/13 22:45
Pond 13DN R-002C	13G1487-07	Water	07/29/13 12:00	07/29/13 22:45
Downstream	13G1487-08	Water	07/29/13 14:35	07/29/13 22:45
Duplicate	13G1487-09	Water	07/29/13 15:00	07/29/13 22:45

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Bruce Gove
Laboratory Director

8/13/2013



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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: Chow Yip

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
13G1487	07/29/2013 22:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A EFF M-001 (13G1487-01)			Sample Type: Water			Sampled: 07/29/13 10:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM)	EPA 1664	AG33123	08/01/13 08:00	08/05/13 10:30	1	ND mg/l	5.0	
Total Dissolved Solids	SM2540C	AG33120	07/31/13 09:45	08/05/13 14:15	"	760 "	10	
Turbidity	SM2130B	AG33040	07/30/13 16:00	07/30/13 17:00	"	1.7 NTU	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30132	08/01/13 14:46	08/01/13 19:35	10	18 mg/l	5.0	
Pond 4A DN R-002A (13G1487-02)			Sample Type: Water			Sampled: 07/29/13 12:30		
Metals by EPA 200 Series Methods								
Calcium	EPA 200.7	AG33131	07/31/13 10:19	08/08/13 19:32	1	140 mg/l	1.0	
Magnesium	"	"	"	"	"	47 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG33120	07/31/13 09:45	08/05/13 14:15	1	840 mg/l	10	
Turbidity	SM2130B	AG33040	07/30/13 16:00	07/30/13 17:00	"	0.56 NTU	0.10	
Hardness, Total	SM2340B	AG33131	07/31/13 10:19	08/08/13 19:32	"	555 mg/l	5	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30132	08/01/13 14:46	08/01/13 20:36	10	20 mg/l	5.0	
Pond 9 EFF M-002 (13G1487-03)			Sample Type: Water			Sampled: 07/29/13 13:05		
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM)	EPA 1664	AG33123	08/01/13 08:00	08/05/13 10:30	1	ND mg/l	5.0	
Total Dissolved Solids	SM2540C	AG33120	07/31/13 09:45	08/05/13 14:15	"	1000 "	10	
Turbidity	SM2130B	AG33040	07/30/13 16:00	07/30/13 17:00	"	0.50 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	

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Bruce Gove
Laboratory Director

8/13/2013



Alpha

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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: Chow Yip

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1487	07/29/2013 22:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 EFF M-002 (13G1487-03)			Sample Type: Water		Sampled: 07/29/13 13:05			
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30132	08/01/13 14:46	08/01/13 20:51	10	48 mg/l	5.0	
Pond 9UP R-001B (13G1487-04)			Sample Type: Water		Sampled: 07/29/13 13:15			
Metals by EPA 200 Series Methods								
Calcium	EPA 200.7	AG33131	07/31/13 10:19	08/08/13 19:38	1	170 mg/l	1.0	
Magnesium	"	"	"	"	"	48 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG33120	07/31/13 09:45	08/05/13 14:15	1	920 mg/l	10	
Turbidity	SM2130B	AG33040	07/30/13 16:00	07/30/13 17:00	"	0.13 NTU	0.10	
Hardness, Total	SM2340B	AG33131	07/31/13 10:19	08/08/13 19:38	"	613 mg/l	5	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30132	08/01/13 14:46	08/01/13 21:06	10	29 mg/l	5.0	
Pond 9DN R-002B (13G1487-05)			Sample Type: Water		Sampled: 07/29/13 13:25			
Metals by EPA 200 Series Methods								
Calcium	EPA 200.7	AG33131	07/31/13 10:19	08/12/13 11:30	20	170 mg/l	20	
Magnesium	"	"	"	08/08/13 19:43	1	56 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG33120	07/31/13 09:45	08/05/13 14:15	1	1100 mg/l	10	
Turbidity	SM2130B	AG33040	07/30/13 16:00	07/30/13 17:00	"	0.64 NTU	0.10	
Hardness, Total	SM2340B	AG33131	07/31/13 10:19	08/12/13 12:02	"	655 mg/l	5	

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Bruce Gove
Laboratory Director

8/13/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

CHEMICAL EXAMINATION REPORT

Page 4 of 11

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

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1487	07/29/2013 22:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9DN R-002B (13G1487-05)			Sample Type: Water		Sampled: 07/29/13 13:25			
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30132	08/01/13 14:46	08/01/13 21:21	10	40 mg/l	5.0	
Pond 13 EFF M-003 (13G1487-06)			Sample Type: Water		Sampled: 07/29/13 11:30			
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM)	EPA 1664	AG33123	08/01/13 08:00	08/05/13 10:30	1	ND mg/l	5.0	
Total Dissolved Solids	SM2540C	AG33120	07/31/13 09:45	08/05/13 14:15	"	1300 "	10	
Turbidity	SM2130B	AG33040	07/30/13 16:00	07/30/13 17:00	"	10 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30132	08/01/13 14:46	08/01/13 21:36	10	68 mg/l	5.0	
Pond 13DN R-002C (13G1487-07)			Sample Type: Water		Sampled: 07/29/13 12:00			
Metals by EPA 200 Series Methods								
Calcium	EPA 200.7	AG33131	07/31/13 10:19	08/12/13 11:35	20	140 mg/l	20	
Magnesium	"	"	"	08/08/13 20:06	1	44 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG33120	07/31/13 09:45	08/05/13 14:15	1	890 mg/l	10	
Turbidity	SM2130B	AG33040	07/30/13 16:00	07/30/13 17:00	"	0.92 NTU	0.10	
Hardness, Total	SM2340B	AG33131	07/31/13 10:19	08/12/13 12:02	"	531 mg/l	5	

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Bruce Gove
Laboratory Director

8/13/2013



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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: Chow Yip

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1487	07/29/2013 22:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 13DN R-002C (13G1487-07)			Sample Type: Water			Sampled: 07/29/13 12:00		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30132	08/01/13 14:46	08/01/13 21:51	10	21 mg/l	5.0	
Downstream (13G1487-08)			Sample Type: Water			Sampled: 07/29/13 14:35		
Metals by EPA 200 Series Methods								
Calcium	EPA 200.7	AG33131	07/31/13 10:19	08/08/13 20:11	1	160 mg/l	1.0	
Magnesium	"	"	"	"	"	56 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG33120	07/31/13 09:45	08/05/13 14:15	1	1100 mg/l	10	
Turbidity	SM2130B	AG33040	07/30/13 16:00	07/30/13 17:00	"	0.80 NTU	0.10	
Hardness, Total	SM2340B	AG33131	07/31/13 10:19	08/08/13 20:11	"	640 mg/l	5	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30132	08/01/13 14:46	08/01/13 22:36	10	55 mg/l	5.0	
Duplicate (13G1487-09)			Sample Type: Water			Sampled: 07/29/13 15:00		
Metals by EPA 200 Series Methods								
Calcium	EPA 200.7	AG33131	07/31/13 10:19	08/08/13 20:16	1	150 mg/l	1.0	
Magnesium	"	"	"	"	"	55 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AG33120	07/31/13 09:45	08/05/13 14:15	1	1000 mg/l	10	
Turbidity	SM2130B	AG33040	07/30/13 16:00	07/30/13 17:00	"	0.51 NTU	0.10	
Hardness, Total	SM2340B	AG33131	07/31/13 10:19	08/08/13 20:16	"	607 mg/l	5	

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Bruce Gove
Laboratory Director

8/13/2013



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CHEMICAL EXAMINATION REPORT

Page 6 of 11

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

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1487	07/29/2013 22:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Duplicate (13G1487-09)			Sample Type: Water			Sampled: 07/29/13 15:00		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30132	08/01/13 14:46	08/01/13 22:51	10	54 mg/l	5.0	

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Bruce Gove
Laboratory Director

8/13/2013



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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: Chow Yip

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
13G1487	07/29/2013 22:45	SEL HANSONCUP	

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 AG33131 - Metals Digest										
Blank (AG33131-BLK1)				Prepared: 07/31/13 Analyzed: 08/02/13						
Calcium	ND	1.0	mg/l							
Magnesium	ND	1.0	"							
LCS (AG33131-BS1)				Prepared: 07/31/13 Analyzed: 08/02/13						
Calcium	5.50	1.0	mg/l	6.00		91.7	85-115			
Magnesium	7.51	1.0	"	8.00		93.9	85-115			
Duplicate (AG33131-DUP1)				Source: 13G1518-02 Prepared: 07/31/13 Analyzed: 08/02/13						
Calcium	19.8	1.0	mg/l		19.6			1.37	20	
Magnesium	14.4	1.0	"		14.1			2.16	20	
Matrix Spike (AG33131-MS1)				Source: 13G1518-02 Prepared: 07/31/13 Analyzed: 08/02/13						
Calcium	25.0	1.0	mg/l	6.00	19.6	90.8	70-130			
Magnesium	21.2	1.0	"	8.00	14.1	88.8	70-130			
Matrix Spike (AG33131-MS2)				Source: 13G1607-03 Prepared: 07/31/13 Analyzed: 08/02/13						
Calcium	56.2	1.0	mg/l	6.00	50.0	103	70-130			
Magnesium	11.2	1.0	"	8.00	3.54	96.3	70-130			
Matrix Spike Dup (AG33131-MSD1)				Source: 13G1518-02 Prepared: 07/31/13 Analyzed: 08/02/13						
Calcium	24.6	1.0	mg/l	6.00	19.6	84.2	70-130	1.59	20	
Magnesium	20.9	1.0	"	8.00	14.1	84.6	70-130	1.61	20	

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Bruce Gove
Laboratory Director

8/13/2013



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CHEMICAL EXAMINATION REPORT

Page 8 of 11

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

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

Order Number Receipt Date/Time Client Code Client PO/Reference
13G1487 07/29/2013 22:45 SEL HANSONCUP

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
Batch AG33120 - General Preparation										
Blank (AG33120-BLK1)				Prepared: 07/31/13 Analyzed: 08/05/13						
Total Dissolved Solids	ND	10	mg/l							
Duplicate (AG33120-DUP1)				Source: 13G1487-01 Prepared: 07/31/13 Analyzed: 08/05/13						
Total Dissolved Solids	800	10	mg/l		756			5.66	30	
Duplicate (AG33120-DUP2)				Source: 13G1592-02 Prepared: 07/31/13 Analyzed: 08/05/13						
Total Dissolved Solids	9650	10	mg/l		9740			0.928	30	
Batch AG33123 - General Preparation										
Blank (AG33123-BLK1)				Prepared: 08/01/13 Analyzed: 08/05/13						
Oil & Grease (HEM)	ND	5.0	mg/l							
LCS (AG33123-BS1)				Prepared: 08/01/13 Analyzed: 08/05/13						
Oil & Grease (HEM)	39.5	5.0	mg/l	40.0		98.8	78-114			
LCS Dup (AG33123-BSD1)				Prepared: 08/01/13 Analyzed: 08/05/13						
Oil & Grease (HEM)	36.2	5.0	mg/l	40.0		90.5	78-114	8.72	18	
Matrix Spike (AG33123-MS1)				Source: 13G1487-01 Prepared: 08/01/13 Analyzed: 08/05/13						
Oil & Grease (HEM)	20.1	5.0	mg/l	20.0	ND	88.5	78-114			
Batch AG33131 - Metals Digest										
Blank (AG33131-BLK1)				Prepared: 07/31/13 Analyzed: 08/02/13						
Hardness, Total	ND	5	mg/l							

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Bruce Gove
Laboratory Director

8/13/2013



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CHEMICAL EXAMINATION REPORT

Page 9 of 11

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

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1487	07/29/2013 22:45	SEL HANSONCUP	

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
Batch AG33131 - Metals Digest										
Duplicate (AG33131-DUP1)										
Source: 13G1518-02										
Prepared: 07/31/13 Analyzed: 08/02/13										
Hardness, Total	109	5	mg/l		107			1.80	20	

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Bruce Gove
Laboratory Director

8/13/2013



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CHEMICAL EXAMINATION REPORT

Page 10 of 11

Lehigh Southwest Cement Company
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Attn: Chow Yip

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1487	07/29/2013 22:45	SEL HANSONCUP	

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30132 - General Preparation										
Blank (AH30132-BLK1)				Prepared & Analyzed: 08/01/13						
Chloride	ND	0.50	mg/l							
LCS (AH30132-BS1)				Prepared & Analyzed: 08/01/13						
Chloride	11.0	0.50	mg/l	11.1		99.0	90-110			
Duplicate (AH30132-DUP1)				Source: 13G1487-01 Prepared & Analyzed: 08/01/13						
Chloride	17.6	5.0	mg/l		17.9			1.69	20	
Matrix Spike (AH30132-MS1)				Source: 13G1487-01 Prepared & Analyzed: 08/01/13						
Chloride	28.7	5.0	mg/l	11.1	17.9	97.3	80-120			
Matrix Spike Dup (AH30132-MSD1)				Source: 13G1487-01 Prepared & Analyzed: 08/01/13						
Chloride	28.8	5.0	mg/l	11.1	17.9	98.1	80-120	0.309	20	

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Bruce Gove
Laboratory Director

8/13/2013



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CHEMICAL EXAMINATION REPORT

Page 11 of 11

Lehigh Southwest Cement Company
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Attn: Chow Yip

Report Date: 08/13/13 14:17
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1487	07/29/2013 22:45	SEL HANSONCUP	

Notes and Definitions

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

8/13/2013



Golder Associates

CANCEL TSS on Effluent Ponds 1391487
419 and 13
Perennial
Golder Associates
CHAIN OF CUSTODY

Page 1 of 1
Quotation No. 1301388

PROJECT NO.: 063-7109-914
SAMPLER(S): David WALTER (printed)
SITE NAME: Lehigh St & G Monthly
David C. Walt (signature)

CONTRACT LABORATORY: Alpha
TURN-AROUND TIME: Standard

Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Container Info	
		Date	Time			Type/Vol.	Filter/Preserv.
Pond 4A EFF M-001		7-29-13	1030	W			
Pond 4A ON R-002A			1230				
Pond 9 EFF M-002			1305				
Pond 9 4P R-001B			1315				
Pond 9 DN R-002B			1325				
Pond 13 EFF M-013			1130				
Pond 13 DN R-002C			1200				
Downstream			1435				
Duplicate			1500				

ANALYSES												Cont. Qty.	Remarks
TSS	OTG	Turbidity	Chloride	Tot sol met	Hardness	TDS	IL	IL	IL	IL	IL		
X	X	X	X	X	X	X	X	X	X	X	X	4	
X	X	X	X	X	X	X	X	X	X	X	X	4	
X	X	X	X	X	X	X	X	X	X	X	X	4	
X	X	X	X	X	X	X	X	X	X	X	X	4	
X	X	X	X	X	X	X	X	X	X	X	X	4	
X	X	X	X	X	X	X	X	X	X	X	X	4	
X	X	X	X	X	X	X	X	X	X	X	X	4	

EDD required? Yes No

EDF required? Yes No

SEND RESULTS TO:
Attn: George Wegmann, Greg Knapp
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224

Relinquished by: (signature) David C. Walt

Relinquished by: (signature) [Signature]

Relinquished by: (signature) [Signature]

Received by: (signature) [Signature]

Received by: (signature) [Signature]

Received by: (signature) [Signature]



Sheri Speaks <speaks78@gmail.com>

Fw: TSS sampling (Lehigh)

1 message

Robbie Phillips (Sample Traps) <robbie@sampletraps.com>
To: Sheri Speaks <speaks78@gmail.com>

Tue, Jul 30, 2013 at 1:59 PM

-----Original Message----- From: Walter, David (Sunnyvale)
Sent: Tuesday, July 30, 2013 12:47 PM
To: Robbie Phillips ; Robbie Phillips
Cc: Wegmann, George
Subject: TSS sampling

Hi Robbie,

There was an error on yesterday's COC. The TSS samples for the effluent at ponds 4, 9, and 13 are not to be analysed with yesterday's grab sample. They will be analysed today for TSS with the 24 hour composite samples. Also, disregard the bottles for O&G on the downstream sample. Follow the COC on all O&G sampling.

Sent from my iPhone



alpha

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ELAP Certificate Numbers 1551 and 2728

12 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13G1491

Enclosed are the results of analyses for samples received by the laboratory on 07/29/13 22:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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CHEMICAL EXAMINATION REPORT

Page 1 of 4

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

Report Date: 08/12/13 13:15
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1491	07/29/2013 22:45	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Comp.	13G1491-01	Water	07/26/13 11:40	07/29/13 22:45
Pond 13B Comp.	13G1491-02	Water	07/26/13 11:00	07/29/13 22:45

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Bruce Gove
Laboratory Director

8/12/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 4

Lehigh Southwest Cement Company
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Dallas, TX 75266-0140
Attn: Chow Yip

Report Date: 08/12/13 13:15
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1491	07/29/2013 22:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 Comp. (13G1491-01)			Sample Type: Water		Sampled: 07/26/13 11:40			
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG33039	07/30/13 16:30	08/01/13 10:15	1	1.6 mg/l	1.0	
Pond 13B Comp. (13G1491-02)			Sample Type: Water		Sampled: 07/26/13 11:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AG33039	07/30/13 16:30	08/01/13 10:15	1	1.0 mg/l	1.0	

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

8/12/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

CHEMICAL EXAMINATION REPORT

Page 3 of 4

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

Report Date: 08/12/13 13:15
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1491	07/29/2013 22:45	SEL HANSONCUP	

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
Batch AG33039 - General Preparation										
Blank (AG33039-BLK1)				Prepared: 07/30/13 Analyzed: 08/01/13						
Total Suspended Solids	ND	1.0	mg/l							
Duplicate (AG33039-DUP1)				Source: 13G1496-02 Prepared: 07/30/13 Analyzed: 08/01/13						
Total Suspended Solids	174	1.0	mg/l		171			1.86	30	
Duplicate (AG33039-DUP2)				Source: 13G1501-01 Prepared: 07/30/13 Analyzed: 08/01/13						
Total Suspended Solids	6200	1.0	mg/l		5000			21.4	30	

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Bruce Gove
Laboratory Director

8/12/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 4

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

Report Date: 08/12/13 13:15
Project No: 063-7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1491	07/29/2013 22:45	SEL HANSONCUP	

Notes and Definitions

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

8/12/2013



Golder Associates CHAIN OF CUSTODY

13G1491

Page 1 of 1
Quotation No. Invoice Lehigh

PROJECT NO.: 063-7109-914		SITE NAME: Lehigh S+G permit		ANALYSES		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDD required?	
SAMPLER(S): David Walter (printed)		David C. Walt (signature)		TS		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required?	
CONTRACT LABORATORY: Alpha		Container Info: standard					
TURN-AROUND TIME:		Collection		Type/Vol.		Cont. Qty.	
Sample I.D.	Lab I.D.	Date	Time	Matrix	Depth	Filter	Preserv.
Pond 9 Comp		7-26-13	1140	W			1
Pond 13B Comp		7-26-13	1100	W			1
Remarks							

Relinquished by (signature) David C. Walt	Received by (signature) DUBLIN FRIDGE	Date/Time 7-26-13 1300
Relinquished by (signature) DUBLIN FRIDGE	Received by (signature) DUBLIN FRIDGE	Date/Time 7/26/13
Relinquished by (signature) DUBLIN FRIDGE	Received by (signature) DUBLIN FRIDGE	Date/Time 7-26-13 2245

SEND RESULTS TO:
 Attn: George Wegman, Greg Krapp
 Chow Kip
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224



alpha

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ELAP Certificate Numbers 1551 and 2728

14 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13G1566

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 22:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

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CHEMICAL EXAMINATION REPORT

Page 1 of 4

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

Report Date: 08/14/13 10:59
Project No: 063-7109 914/ Monthly
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1566	07/30/2013 22:10	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Composite	13G1566-01	Water	07/30/13 10:30	07/30/13 22:10
Pond 9 Composite	13G1566-02	Water	07/30/13 12:30	07/30/13 22:10
Pond 13B Composite	13G1566-03	Water	07/30/13 12:00	07/30/13 22:10

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

8/14/2013



Alpha

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CHEMICAL EXAMINATION REPORT

Page 2 of 4

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

Report Date: 08/14/13 10:59
Project No: 063-7109 914/ Monthly
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1566	07/30/2013 22:10	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A Composite (13G1566-01)			Sample Type: Water			Sampled: 07/30/13 10:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AH30117	08/01/13 08:13	08/02/13 12:59	1	1.9 mg/l	1.0	
Pond 9 Composite (13G1566-02)			Sample Type: Water			Sampled: 07/30/13 12:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AH30117	08/01/13 08:13	08/02/13 12:59	1	4.2 mg/l	1.0	
Pond 13B Composite (13G1566-03)			Sample Type: Water			Sampled: 07/30/13 12:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AH30117	08/01/13 08:13	08/02/13 12:59	1	3.7 mg/l	1.0	

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

8/14/2013



alpha

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CHEMICAL EXAMINATION REPORT

Page 3 of 4

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

Report Date: 08/14/13 10:59
Project No: 063-7109 914/ Monthly
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1566	07/30/2013 22:10	SEL HANSONCUP	

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
Batch AH30117 - General Preparation										
Blank (AH30117-BLK1)				Prepared: 08/01/13 Analyzed: 08/02/13						
Total Suspended Solids	ND	1.0	mg/l							
Duplicate (AH30117-DUP1)				Source: 13G1596-02 Prepared: 08/01/13 Analyzed: 08/02/13						
Total Suspended Solids	215	1.0	mg/l		225			4.55	30	
Duplicate (AH30117-DUP2)				Source: 13H0003-04 Prepared: 08/01/13 Analyzed: 08/02/13						
Total Suspended Solids	455	1.0	mg/l		460			1.09	30	

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

8/14/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 4

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

Report Date: 08/14/13 10:59
Project No: 063-7109 914/ Monthly
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13G1566	07/30/2013 22:10	SEL HANSONCUP	

Notes and Definitions

- 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

8/14/2013



Golder Associates CHAIN OF CUSTODY

1361566

Page 1 of 1

Quotation No. Invoice Lehigh

Group 4

PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?					
063-7109-914		Monthly Lehigh St Geraint		TSS		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> EDF required? <input type="checkbox"/> No					
SAMPLER(S):		CONTRACT LABORATORY:		CONTAINER INFO		Cont. Qty.		Remarks			
David Walter <small>(printed)</small>		Alpha Standard		Type/Vol. Filter Preserv.							
TURN-AROUND TIME:		Collection		Matrix		Depth					
		Date		Time							
Sample I.D.	Lab I.D.	Date	Time	Matrix	Depth	Type/Vol.	Filter	Preserv.	Cont. Qty.	Remarks	
Pond 4A Composite		7-30-13	1030	W		1			1		
Pond 9 Composite		↓	1230			1			1		
Pond 13B Composite		↓	1200			1			1		
Relinquished by: (signature)		Received by: (signature)		Date/Time:		Date/Time:		Date/Time:		SEND RESULTS TO:	
David C. Vallet		R. L. Lutz		7-30-13 1600		7-30-13 1600		1437		Attn: George Wegmann, Greg Knapp Chow Yip Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Relinquished by: (signature)		Received by: (signature)		Date/Time:		Date/Time:		Date/Time:			
R. Lutz		R. Lutz		7-30-13 1900		7-30-13 1900		7-30-13 2210			
Relinquished by: (signature)		Received by: (signature)		Date/Time:		Date/Time:		Date/Time:			
R. Lutz		R. Lutz		7-30-13 2210		7-30-13 2210		7-30-13 2210			



alpha

Alpha Analytical Laboratories Inc.

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ELAP Certificate Numbers 1551 and 2728

22 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13H0504

Enclosed are the results of analyses for samples received by the laboratory on 08/07/13 22:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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CHEMICAL EXAMINATION REPORT

Page 1 of 7

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

Report Date: 08/22/13 13:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0504	08/07/2013 22:00	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13H0504-01	Water	08/07/13 11:15	08/07/13 22:00
Pond 4A DN R-002A	13H0504-02	Water	08/07/13 12:45	08/07/13 22:00
Pond 9 EFF M-002	13H0504-03	Water	08/07/13 13:10	08/07/13 22:00
Pond 9 UP R-001B	13H0504-04	Water	08/07/13 13:20	08/07/13 22:00
Pond 9 DN R-002B	13H0504-05	Water	08/07/13 13:25	08/07/13 22:00
Pond 13B EFF M-003	13H0504-06	Water	08/07/13 12:00	08/07/13 22:00
Pond 13B DN R-002C	13H0504-07	Water	08/07/13 10:15	08/07/13 22:00

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Bruce Gove
Laboratory Director

8/22/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 7

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

Report Date: 08/22/13 13:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0504	08/07/2013 22:00	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A EFF M-001 (13H0504-01)			Sample Type: Water			Sampled: 08/07/13 11:15		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH31217	08/12/13 10:00	08/13/13 16:30	1	780 mg/l	10	
Turbidity	SM2130B	AH30839	08/08/13 13:00	08/08/13 17:00	"	3.0 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30915	08/09/13 09:34	08/09/13 16:13	10	26 mg/l	5.0	
Pond 4A DN R-002A (13H0504-02)			Sample Type: Water			Sampled: 08/07/13 12:45		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH31217	08/12/13 10:00	08/13/13 16:30	1	900 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30915	08/09/13 09:34	08/09/13 11:55	10	21 mg/l	5.0	
Pond 9 EFF M-002 (13H0504-03)			Sample Type: Water			Sampled: 08/07/13 13:10		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH31217	08/12/13 10:00	08/13/13 16:30	1	1100 mg/l	10	
Turbidity	SM2130B	AH30839	08/08/13 13:00	08/08/13 17:00	"	0.28 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30915	08/09/13 09:34	08/09/13 12:10	10	55 mg/l	5.0	
Pond 9 UP R-001B (13H0504-04)			Sample Type: Water			Sampled: 08/07/13 13:20		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH31217	08/12/13 10:00	08/13/13 16:30	1	1100 mg/l	10	

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

8/22/2013



Alpha

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CHEMICAL EXAMINATION REPORT

Page 3 of 7

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

Report Date: 08/22/13 13:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0504	08/07/2013 22:00	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 UP R-001B (13H0504-04)			Sample Type: Water			Sampled: 08/07/13 13:20		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30915	08/09/13 09:34	08/09/13 12:26	10	45 mg/l	5.0	
Pond 9 DN R-002B (13H0504-05)			Sample Type: Water			Sampled: 08/07/13 13:25		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH31217	08/12/13 10:00	08/13/13 16:30	1	1100 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30915	08/09/13 09:34	08/09/13 12:41	10	53 mg/l	5.0	
Pond 13B EFF M-003 (13H0504-06)			Sample Type: Water			Sampled: 08/07/13 12:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH31217	08/12/13 10:00	08/13/13 16:30	1	1300 mg/l	10	
Turbidity	SM2130B	AH30839	08/08/13 13:00	08/08/13 17:00	"	3.1 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30915	08/09/13 09:34	08/09/13 12:56	10	66 mg/l	5.0	
Pond 13B DN R-002C (13H0504-07)			Sample Type: Water			Sampled: 08/07/13 10:15		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH31217	08/12/13 10:00	08/13/13 16:30	1	820 mg/l	10	

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

8/22/2013



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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CHEMICAL EXAMINATION REPORT

Page 4 of 7

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

Report Date: 08/22/13 13:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0504	08/07/2013 22:00	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 13B DN R-002C (13H0504-07)			Sample Type: Water			Sampled: 08/07/13 10:15		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH30915	08/09/13 09:34	08/09/13 13:11	10	23 mg/l	5.0	

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Bruce Gove
Laboratory Director

8/22/2013



Alpha

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CHEMICAL EXAMINATION REPORT

Page 6 of 7

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

Report Date: 08/22/13 13:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0504	08/07/2013 22:00	SEL HANSONCUP	

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH30915 - General Preparation										
Blank (AH30915-BLK1)				Prepared & Analyzed: 08/09/13						
Chloride	ND	0.50	mg/l							
LCS (AH30915-BS1)				Prepared & Analyzed: 08/09/13						
Chloride	11.1	0.50	mg/l	11.1		99.9	90-110			
Duplicate (AH30915-DUP1)				Source: 13H0586-02 Prepared & Analyzed: 08/09/13						
Chloride	4.01	0.50	mg/l		4.04			0.745	20	
Matrix Spike (AH30915-MS1)				Source: 13H0586-02 Prepared & Analyzed: 08/09/13						
Chloride	15.2	0.50	mg/l	11.1	4.04	101	80-120			
Matrix Spike (AH30915-MS2)				Source: 13H0613-03 Prepared & Analyzed: 08/09/13						
Chloride	31.6	2.5	mg/l	11.1	20.8	96.5	80-120			
Matrix Spike Dup (AH30915-MSD1)				Source: 13H0586-02 Prepared & Analyzed: 08/09/13						
Chloride	15.3	0.50	mg/l	11.1	4.04	101	80-120	0.495	20	

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

8/22/2013



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CHEMICAL EXAMINATION REPORT

Page 7 of 7

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

Report Date: 08/22/13 13:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0504	08/07/2013 22:00	SEL HANSONCUP	

Notes and Definitions

- 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

8/22/2013



Golder Associates CHAIN OF CUSTODY

13H0504

Page 1 of 1

Quotation No. *Invoice Lehigh*

PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?	
063-7109-914		Lehigh St 6 permit		Weekly		Yes No	
SAMPLER(S):		CONTRACT LABORATORY:		Container Info		EDF required?	
David Walter (contract)		Alpha Standard		Type/Vol. Filter Preserv.		Yes No	
TURN-AROUND TIME:		Collection		Matrix		Depth	
		Date	Time				
Pond 4A Eff M-001	8-7-13	1115	W	1	1	1	2
Pond 4A DN R-002A		1245		1	1	1	1
Pond 9 Eff M-002		1310		1	1	1	2
Pond 9 UP R-001B		1320		1	1	1	1
Pond 9 DN R-002B		1325		1	1	1	1
Pond 13B Eff M-003		1700		1	1	1	2
Pond 13B DN R-002C		1015		1	1	1	1

Sample I.D.	Lab I.D.	Cont. Qty.	Remarks
			20

Retransmitted by (signature)	Received by (signature)	Date/Time	SEND RESULTS TO:
<i>David C. Walter</i>	<i>[Signature]</i>	8-7-13 1415	Attn: <i>George Wegmann, Greg Knapp, Chow Y.P.</i> Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224
<i>[Signature]</i>	<i>[Signature]</i>	8-7-13 1800	
<i>[Signature]</i>	<i>[Signature]</i>	8-7-13 2200	



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ELAP Certificate Numbers 1551 and 2728

23 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13H0633

Enclosed are the results of analyses for samples received by the laboratory on 08/08/13 23:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

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CHEMICAL EXAMINATION REPORT

Page 1 of 4

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

Report Date: 08/23/13 08:49
Project No: 063-7109-914/ Composite
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0633	08/08/2013 23:00	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Composite	13H0633-01	Water	08/08/13 12:15	08/08/13 23:00
Pond 9 Composite	13H0633-02	Water	08/08/13 11:45	08/08/13 23:00
Pond 13B Composite	13H0633-03	Water	08/08/13 11:15	08/08/13 23:00

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

8/23/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 4

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

Report Date: 08/23/13 08:49
Project No: 063-7109-914/ Composite
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0633	08/08/2013 23:00	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A Composite (13H0633-01)			Sample Type: Water		Sampled: 08/08/13 12:15			
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AH31234	08/12/13 11:08	08/14/13 08:25	1	ND mg/l	1.0	
Pond 9 Composite (13H0633-02)			Sample Type: Water		Sampled: 08/08/13 11:45			
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AH31234	08/12/13 11:08	08/14/13 08:25	1	ND mg/l	1.0	
Pond 13B Composite (13H0633-03)			Sample Type: Water		Sampled: 08/08/13 11:15			
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AH31234	08/12/13 11:08	08/14/13 08:25	1	1.7 mg/l	1.0	

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Bruce Gove
Laboratory Director

8/23/2013



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CHEMICAL EXAMINATION REPORT

Page 3 of 4

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

Report Date: 08/23/13 08:49
Project No: 063-7109-914/ Composite
Project ID: Lehigh S & G Permit

Order Number 13H0633 Receipt Date/Time 08/08/2013 23:00 Client Code SEL HANSONCUP Client PO/Reference

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Table with columns: Analyte(s), Result, PQL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Flag. Rows include Batch AH31234 - General Preparation with sub-rows for Blank, Duplicate 1, and Duplicate 2.

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 I. Gove (handwritten signature)

Bruce Gove
Laboratory Director

8/23/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 4

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

Report Date: 08/23/13 08:49
Project No: 063-7109-914/ Composite
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0633	08/08/2013 23:00	SEL HANSONCUP	

Notes and Definitions

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

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

8/23/2013



Golder Associates CHAIN OF CUSTODY

13H0633

Quotation No. Invoice 46194

PROJECT NO.: 063-7109-914		SITE NAME: Composite Lehigh St & G permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
SAMPLER(S): David Walter (printed)		David C. Valtz (signature)		TSS				
CONTRACT LABORATORY: TURN-AROUND TIME:		Alpha standard						
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol. Filter Preserv.	Cont. Qty.	Remarks
		Date	Time					
Pond 4A Comp		8-8-13	1215	W			1	
Pond 9 Comp		↓	1145	↓			1	
Pond 13B Comp			1115				1	
Relinquished by: (signature) David C. Valtz		Received by: (signature) AWP		Date/Time: 8-8-13 1500		SEND RESULTS TO: Attn: George Wegmann, Greg Knapp, Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224		
Relinquished by: (signature)		Received by: (signature)		Date/Time: 8-8-13 1600				
Relinquished by: (signature)		Received by: (signature)		Date/Time: 8-8-13 2000				



alpha

Alpha Analytical Laboratories Inc.

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ELAP Certificate Numbers 1551 and 2728

28 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13H0997

Enclosed are the results of analyses for samples received by the laboratory on 08/14/13 21:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

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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: Chow Yip

Report Date: 08/28/13 09:15
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0997	08/14/2013 21:55	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A DN R-002A	13H0997-01	Water	08/14/13 11:25	08/14/13 21:55
Pond 9 EFF M-002	13H0997-02	Water	08/14/13 12:00	08/14/13 21:55
Pond 9 UP R-001B	13H0997-03	Water	08/14/13 12:10	08/14/13 21:55
Pond 9 DN R-002B	13H0997-04	Water	08/14/13 12:15	08/14/13 21:55
Pond 13B EFF M-003	13H0997-05	Water	08/14/13 11:15	08/14/13 21:55
Pond 13B DN R-002C	13H0997-06	Water	08/14/13 10:20	08/14/13 21:55

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

8/28/2013



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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: Chow Yip

Report Date: 08/28/13 09:15
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
13H0997	08/14/2013 21:55	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A DN R-002A (13H0997-01)			Sample Type: Water			Sampled: 08/14/13 11:25		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH32150	08/21/13 15:45	08/27/13 08:45	1	910 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH31632	08/16/13 13:33	08/16/13 18:36	10	22 mg/l	5.0	
Pond 9 EFF M-002 (13H0997-02)			Sample Type: Water			Sampled: 08/14/13 12:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH32150	08/21/13 15:45	08/27/13 08:45	1	1100 mg/l	10	
Turbidity	SM2130B	AH31636	08/15/13 17:00	08/15/13 17:00	"	0.69 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH31632	08/16/13 13:33	08/16/13 18:52	10	50 mg/l	5.0	
Pond 9 UP R-001B (13H0997-03)			Sample Type: Water			Sampled: 08/14/13 12:10		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH32150	08/21/13 15:45	08/27/13 08:45	1	1200 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH31632	08/16/13 13:33	08/16/13 19:07	10	49 mg/l	5.0	
Pond 9 DN R-002B (13H0997-04)			Sample Type: Water			Sampled: 08/14/13 12:15		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH32150	08/21/13 15:45	08/27/13 08:45	1	1100 mg/l	10	

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

8/28/2013



Alpha

Alpha Analytical Laboratories Inc.

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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: Chow Yip

Report Date: 08/28/13 09:15
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0997	08/14/2013 21:55	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 DN R-002B (13H0997-04)			Sample Type: Water			Sampled: 08/14/13 12:15		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH31632	08/16/13 13:33	08/16/13 19:22	10	50 mg/l	5.0	
Pond 13B EFF M-003 (13H0997-05)			Sample Type: Water			Sampled: 08/14/13 11:15		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH32150	08/21/13 15:45	08/27/13 08:45	1	1400 mg/l	10	
Turbidity	SM2130B	AH31636	08/15/13 17:00	08/15/13 17:00	"	8.2 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH31632	08/16/13 13:33	08/16/13 19:37	10	56 mg/l	5.0	
Pond 13B DN R-002C (13H0997-06)			Sample Type: Water			Sampled: 08/14/13 10:20		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH32150	08/21/13 15:45	08/27/13 08:45	1	900 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH31632	08/16/13 13:33	08/16/13 19:52	10	21 mg/l	5.0	

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Bruce Gove
Laboratory Director

8/28/2013



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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: Chow Yip

Report Date: 08/28/13 09:15
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0997	08/14/2013 21:55	SEL HANSONCUP	

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
Batch AH32150 - General Preparation										
Blank (AH32150-BLK1)				Prepared: 08/21/13 Analyzed: 08/27/13						
Total Dissolved Solids	ND	10	mg/l							
Duplicate (AH32150-DUP1)				Source: 13H0997-01 Prepared: 08/21/13 Analyzed: 08/27/13						
Total Dissolved Solids	896	10	mg/l		908			1.33	30	
Duplicate (AH32150-DUP2)				Source: 13H1037-03 Prepared: 08/21/13 Analyzed: 08/27/13						
Total Dissolved Solids	161	10	mg/l		160			0.623	30	

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

8/28/2013



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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: Chow Yip

Report Date: 08/28/13 09:15
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0997	08/14/2013 21:55	SEL HANSONCUP	

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH31632 - General Preparation										
Blank (AH31632-BLK1)				Prepared & Analyzed: 08/16/13						
Chloride	ND	0.50	mg/l							
LCS (AH31632-BS1)				Prepared & Analyzed: 08/16/13						
Chloride	11.1	0.50	mg/l	11.1		100	90-110			
Duplicate (AH31632-DUP1)				Source: 13H1059-02 Prepared & Analyzed: 08/16/13						
Chloride	55.3	5.0	mg/l		55.6			0.523	20	
Matrix Spike (AH31632-MS1)				Source: 13H1059-02 Prepared & Analyzed: 08/16/13						
Chloride	65.5	5.0	mg/l	11.1	55.6	89.1	80-120			
Matrix Spike (AH31632-MS2)				Source: 13H1059-14 Prepared: 08/16/13 Analyzed: 08/17/13						
Chloride	67.1	5.0	mg/l	11.1	55.6	103	80-120			
Matrix Spike Dup (AH31632-MSD1)				Source: 13H1059-02 Prepared & Analyzed: 08/16/13						
Chloride	65.4	5.0	mg/l	11.1	55.6	88.5	80-120	0.102	20	

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Bruce Gove
Laboratory Director

8/28/2013



alpha

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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: Chow Yip

Report Date: 08/28/13 09:15
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H0997	08/14/2013 21:55	SEL HANSONCUP	

Notes and Definitions

- 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

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

8/28/2013



Golder Associates CHAIN OF CUSTODY

1342997

Page 1 of 1

Quotation No. Invoice Lehigh

PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?	
063-7109-914		Lehigh STE permit		SS, TOS, chloride Turbidity TOS, chloride		Yes No	
SAMPLER(S):		CONTAINER INFO:		Type/Vol.		EDF required?	
David Walter <small>(printed)</small>		Alpha Standard		Filter Preserv.		Yes No	
CONTRACT LABORATORY:		Collection		Matrix		Cont. Qty.	
Turn-around time:		Date		Time		Remarks	
David C. Yalton <small>(signature)</small>		Date <td colspan="2">Time <td colspan="2"></td> </td>		Time <td colspan="2"></td>			
Pond 4A NW R-002A	8-14-13	1125	W	1	1		
Pond 9EFF M-002	1200			1	1		
Pond 9UP R-001B	1210			1	1		
Pond 9OW R-002B	1215			1	1		
Pond 13B Eff M-003	1115		↓	1	1		
Pond 13DDW R-002C	1020		↓	1	1		

Relinquished by: (signature)	Received by: (signature)	Date/Time	SEND RESULTS TO:
David C. Yalton	Buller	8-14-13 1450	Attn: George Wegmann, Greg Knapp
Relinquished by: (signature)	Received by: (signature)	8-14-13 1300	Golder Associates Inc.
Relinquished by: (signature)	Received by: (signature)	8-14-13 1800	425 Lakeside Drive
Relinquished by: (signature)	Received by: (signature)	8-14-13 2155	Sunnyvale, CA 94085
			Phone (408) 220-9223
			Fax (408) 220-9224



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

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

ELAP Certificate Numbers 1551 and 2728

27 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13H1107

Enclosed are the results of analyses for samples received by the laboratory on 08/17/13 14:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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e-mail: clientservices@alpha-labs.com

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CHEMICAL EXAMINATION REPORT

Page 1 of 4

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

Report Date: 08/27/13 09:13
Project No: 063 7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H1107	08/17/2013 14:30	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Grab	13H1107-01	Water	08/15/13 15:00	08/17/13 14:30
Pond 13B Comp	13H1107-02	Water	08/15/13 15:30	08/17/13 14:30

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Bruce Gove
Laboratory Director

8/27/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 4

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

Report Date: 08/27/13 09:13
Project No: 063 7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H1107	08/17/2013 14:30	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 Grab (13H1107-01)			Sample Type: Water			Sampled: 08/15/13 15:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AH32036	08/20/13 11:41	08/21/13 11:22	1	1.0 mg/l	1.0	
Pond 13B Comp (13H1107-02)			Sample Type: Water			Sampled: 08/15/13 15:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AH32036	08/20/13 11:41	08/21/13 11:22	1	10 mg/l	1.0	

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

8/27/2013



alpha

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CHEMICAL EXAMINATION REPORT

Page 3 of 4

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

Report Date: 08/27/13 09:13
Project No: 063 7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H1107	08/17/2013 14:30	SEL HANSONCUP	

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
Batch AH32036 - General Preparation										
Blank (AH32036-BLK1)				Prepared: 08/20/13 Analyzed: 08/21/13						
Total Suspended Solids	ND	1.0	mg/l							
Duplicate (AH32036-DUP1)				Source: 13H1127-01 Prepared: 08/20/13 Analyzed: 08/21/13						
Total Suspended Solids	38.8	1.0	mg/l		32.8			16.8	30	
Duplicate (AH32036-DUP2)				Source: 13H1157-02 Prepared: 08/20/13 Analyzed: 08/21/13						
Total Suspended Solids	270	1.0	mg/l		260			3.77	30	

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

8/27/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 4

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

Report Date: 08/27/13 09:13
Project No: 063 7109 914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H1107	08/17/2013 14:30	SEL HANSONCUP	

Notes and Definitions

- 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

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

8/27/2013



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ELAP Certificate Numbers 1551 and 2728

06 September 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13H1464

Enclosed are the results of analyses for samples received by the laboratory on 08/22/13 22:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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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: Chow Yip

Report Date: 09/06/13 06:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H1464	08/22/2013 22:10	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF M-002	13H1464-01	Water	08/22/13 14:00	08/22/13 22:10
Pond 9 UP R-001B	13H1464-02	Water	08/22/13 14:15	08/22/13 22:10
Pond 9 DN R-002B	13H1464-03	Water	08/22/13 14:20	08/22/13 22:10
Pond 13B EFF M-003	13H1464-04	Water	08/22/13 13:30	08/22/13 22:10

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

9/6/2013



Alpha

Alpha Analytical Laboratories Inc.

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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: Chow Yip

Report Date: 09/06/13 06:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
13H1464	08/22/2013 22:10	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 EFF M-002 (13H1464-01)			Sample Type: Water			Sampled: 08/22/13 14:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH32923	08/29/13 11:45	09/03/13 13:00	1	1200 mg/l	10	
Turbidity	SM2130B	AH32644	08/23/13 13:00	08/23/13 17:00	"	0.83 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH32328	08/23/13 15:40	08/24/13 02:51	25	50 mg/l	12	
Pond 9 UP R-001B (13H1464-02)			Sample Type: Water			Sampled: 08/22/13 14:15		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH32923	08/29/13 11:45	09/03/13 13:00	1	1300 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH32328	08/23/13 15:40	08/24/13 03:06	25	62 mg/l	12	
Pond 9 DN R-002B (13H1464-03)			Sample Type: Water			Sampled: 08/22/13 14:20		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH32923	08/29/13 11:45	09/03/13 13:00	1	1400 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH32328	08/23/13 15:40	08/24/13 03:21	25	54 mg/l	12	
Pond 13B EFF M-003 (13H1464-04)			Sample Type: Water			Sampled: 08/22/13 13:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AH32923	08/29/13 11:45	09/03/13 13:00	1	1400 mg/l	10	
Turbidity	SM2130B	AH32644	08/23/13 13:00	08/23/13 17:00	"	4.3 NTU	0.10	
Total Settleable Solids	SM2540F	"	"	"	"	ND ml/l	0.10	

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Bruce Gove
Laboratory Director

9/6/2013



alpha

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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: Chow Yip

Report Date: 09/06/13 06:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H1464	08/22/2013 22:10	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 13B EFF M-003 (13H1464-04)			Sample Type: Water			Sampled: 08/22/13 13:30		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AH32328	08/23/13 15:40	08/24/13 03:36	25	54 mg/l	12	

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Bruce Gove
Laboratory Director

9/6/2013



Alpha

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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: Chow Yip

Report Date: 09/06/13 06:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H1464	08/22/2013 22:10	SEL HANSONCUP	

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
Batch AH32923 - General Preparation										
Blank (AH32923-BLK1)				Prepared: 08/29/13 Analyzed: 09/03/13						
Total Dissolved Solids	ND	10	mg/l							
Duplicate (AH32923-DUP1)				Source: 13H1464-01 Prepared: 08/29/13 Analyzed: 09/03/13						
Total Dissolved Solids	1200	10	mg/l		1190			1.00	30	
Duplicate (AH32923-DUP2)				Source: 13H1653-02 Prepared: 08/29/13 Analyzed: 09/03/13						
Total Dissolved Solids	293	10	mg/l		281			4.18	30	

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Bruce Gove
Laboratory Director

9/6/2013



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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: Chow Yip

Report Date: 09/06/13 06:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
13H1464	08/22/2013 22:10	SEL HANSONCUP	

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH32328 - General Preparation										
Blank (AH32328-BLK1)				Prepared & Analyzed: 08/23/13						
Chloride	ND	0.50	mg/l							
LCS (AH32328-BS1)				Prepared & Analyzed: 08/23/13						
Chloride	11.0	0.50	mg/l	11.1		99.4	90-110			
Duplicate (AH32328-DUP1)				Source: 13H1482-02 Prepared: 08/23/13 Analyzed: 08/24/13						
Chloride	26.3	2.5	mg/l		26.3			0.0380	20	
Matrix Spike (AH32328-MS1)				Source: 13H1482-02 Prepared: 08/23/13 Analyzed: 08/24/13						
Chloride	37.6	2.5	mg/l	11.1	26.3	101	80-120			
Matrix Spike Dup (AH32328-MSD1)				Source: 13H1482-02 Prepared: 08/23/13 Analyzed: 08/24/13						
Chloride	37.4	2.5	mg/l	11.1	26.3	100	80-120	0.400	20	

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Bruce Gove
Laboratory Director

9/6/2013



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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: Chow Yip

Report Date: 09/06/13 06:51
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13H1464	08/22/2013 22:10	SEL HANSONCUP	

Notes and Definitions

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

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

9/6/2013



Golder Associates
CHAIN OF CUSTODY

Page 1 of 1
Quotation No. 13H1464 Invoice Lehigh

PROJECT NO.: <u>063-7109-914</u>		SITE NAME: <u>(weekly) Lehigh St & permit</u>		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): <u>David Walter (printed)</u>		SAMPLER(S) SIGNATURE: <u>David C. Walt</u>		SS, TDS, chloride Turbidity TDS, chloride			
CONTRACT LABORATORY: <u>Alpha</u>		CONTAINER INFO:					
TURN-AROUND TIME: <u>Standard</u>		Type/Vol.					
Sample I.D.	Lab I.D.	Collection		Filter	Preserv.	Cont. Qty.	Remarks
		Date	Time				
Pond 9 Eff m-002		8-22-13	1400	W		2	
Pond 9 UP R-001B		1415				1	
Pond 9 DN R-002B		1420				1	
Pond 13B Eff m-003		1330				2	
Relinquished by: (signature) <u>David C. Walt</u>		Received by: (signature) <u>[Signature]</u>		Date/Time: 8-22-13 1430		SEND RESULTS TO: Attn: George Weymann, Greg Knapp, Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Relinquished by: (signature) <u>[Signature]</u>		Received by: (signature) <u>B. Weymann</u>		Date/Time: 8-22-13 1920			
Relinquished by: (signature) <u>[Signature]</u>		Received by: (signature) <u>AP F. Lura</u>		Date/Time: 8-22-13 2210			



Alpha

Alpha Analytical Laboratories Inc.

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ELAP Certificate Numbers 1551 and 2728

09 September 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13H1577

Enclosed are the results of analyses for samples received by the laboratory on 08/26/13 22:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914/ Composite

Reported:

09/09/13 15:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13H1577-01	Water	08/23/13 12:55	08/26/13 22:00
Pond 9	13H1577-02	Water	08/23/13 14:00	08/26/13 22:00
Pond 13	13H1577-03	Water	08/23/13 13:25	08/26/13 22:00

Alpha Analytical Laboratories, Inc.

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 L. Gove
Laboratory Director

9/9/2013



Alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914/ Composite

Reported:

09/09/13 15:26

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13H1577-01) Water Sampled: 08/23/13 12:55 Received: 08/26/13 22:00											
Total Dissolved Solids	870	5.0	10		mg/l	1	AH32923	08/29/13 11:45	09/03/13 13:00	SM2540C	
Total Suspended Solids	0.40	0.30	1.0		"	"	AH32835	08/28/13 09:54	08/29/13 16:46	SM2540D	J
Turbidity	5.9	0.030	0.10		NTU	"	AH32745	08/23/13 18:00	08/23/13 18:00	SM2310B	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AH32857	08/27/13 13:00	08/27/13 17:00	SM2540F	T-5, U
Pond 9 (13H1577-02) Water Sampled: 08/23/13 14:00 Received: 08/26/13 22:00											
Total Suspended Solids	2.3	0.30	1.0		mg/l	1	AH32835	08/28/13 09:54	08/29/13 16:46	SM2540D	
Pond 13 (13H1577-03) Water Sampled: 08/23/13 13:25 Received: 08/26/13 22:00											
Total Suspended Solids	1.9	0.30	1.0		mg/l	1	AH32835	08/28/13 09:54	08/29/13 16:46	SM2540D	

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/9/2013



alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914/ Composite

Reported:

09/09/13 15:26

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13H1577-01) Water Sampled: 08/23/13 12:55 Received: 08/26/13 22:00											
Chloride	41	0.30	5.0		mg/l	10	AH32735	08/27/13 10:16	08/27/13 16:54	EPA 300.0	

Alpha Analytical Laboratories, Inc.

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

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109 914/ Composite

Reported:
09/09/13 15:26

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AH32745 - General Preparation

Blank (AH32745-BLK1)

Prepared & Analyzed: 08/23/13

Turbidity ND 0.030 0.10 NTU U

Duplicate (AH32745-DUP1)

Source: 13H1577-01

Prepared & Analyzed: 08/23/13

Turbidity 5.97 0.030 0.10 NTU 5.87 1.69 30

Batch AH32835 - General Preparation

Blank (AH32835-BLK1)

Prepared: 08/28/13 Analyzed: 08/29/13

Total Suspended Solids ND 0.30 0.50 mg/l U

Duplicate (AH32835-DUP1)

Source: 13H1506-01

Prepared: 08/28/13 Analyzed: 08/29/13

Total Suspended Solids 132 0.30 0.50 mg/l 108 20.0 30

Duplicate (AH32835-DUP2)

Source: 13H1570-01

Prepared: 08/28/13 Analyzed: 08/29/13

Total Suspended Solids 323 0.30 0.50 mg/l 308 4.88 30

Batch AH32857 - General Preparation

Duplicate (AH32857-DUP1)

Source: 13H1598-01

Prepared & Analyzed: 08/27/13

Total Settleable Solids ND 0.10 0.10 ml/l ND 200 U

Batch AH32923 - General Preparation

Blank (AH32923-BLK1)

Prepared: 08/29/13 Analyzed: 09/03/13

Total Dissolved Solids ND 5.0 10 mg/l U

Alpha Analytical Laboratories, Inc.

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Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914/ Composite

Reported:

09/09/13 15:26

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AH32923 - General Preparation

Duplicate (AH32923-DUP1)

Source: 13H1464-01

Prepared: 08/29/13 Analyzed: 09/03/13

Total Dissolved Solids	1200	5.0	10	mg/l		1190			1.00	30	
------------------------	------	-----	----	------	--	------	--	--	------	----	--

Duplicate (AH32923-DUP2)

Source: 13H1653-02

Prepared: 08/29/13 Analyzed: 09/03/13

Total Dissolved Solids	293	5.0	10	mg/l		281			4.18	30	
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Alpha Analytical Laboratories, Inc.

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9/9/2013



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Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914/ Composite

Reported:

09/09/13 15:26

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH32735 - General Preparation											
Blank (AH32735-BLK1) Prepared & Analyzed: 08/27/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AH32735-BS1) Prepared & Analyzed: 08/27/13											
Chloride	11.0	0.030	0.50	mg/l	11.1		99.1	90-110			
Duplicate (AH32735-DUP1) Source: 13H1551-01 Prepared & Analyzed: 08/27/13											
Chloride	76.2	0.15	2.5	mg/l		75.9			0.335	20	
Matrix Spike (AH32735-MS1) Source: 13H1551-01 Prepared & Analyzed: 08/27/13											
Chloride	87.3	0.15	2.5	mg/l	11.1	75.9	102	80-120			
Matrix Spike (AH32735-MS2) Source: 13H1599-02 Prepared & Analyzed: 08/27/13											
Chloride	24.4	0.15	2.5	mg/l	11.1	14.0	93.5	80-120			
Matrix Spike Dup (AH32735-MSD1) Source: 13H1551-01 Prepared & Analyzed: 08/27/13											
Chloride	87.4	0.15	2.5	mg/l	11.1	75.9	104	80-120	0.216	20	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
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9/9/2013

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PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914/ Composite

Reported:

09/09/13 15:26

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- T-5 Sample prepared outside of recommended holding time per client.
- U Analyte included in analysis, but not detected at or above MDL.
- 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

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/9/2013

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ELAP Certificate Numbers 1551 and 2728

13 September 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13H1760

Enclosed are the results of analyses for samples received by the laboratory on 08/28/13 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 / Monthly

Reported:

09/13/13 10:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF M-002	13H1760-01	Water	08/28/13 12:15	08/28/13 21:50
Pond 9UP R-001B	13H1760-02	Water	08/28/13 12:25	08/28/13 21:50
Pond 9DN R-002B	13H1760-03	Water	08/28/13 12:30	08/28/13 21:50
Pond 13 EFF M-003	13H1760-04	Water	08/28/13 11:00	08/28/13 21:50
Downstream	13H1760-05	Water	08/28/13 13:20	08/28/13 21:50
Duplicate	13H1760-06	Water	08/28/13 14:00	08/28/13 21:50

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/13/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 / Monthly

Reported:

09/13/13 10:43

Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9UP R-001B (13H1760-02) Water Sampled: 08/28/13 12:25 Received: 08/28/13 21:50											
Calcium	230	0.010	1.0		mg/l	1	AI30363	09/03/13 14:59	09/10/13 14:19	EPA 200.7	
Magnesium	64	0.0080	1.0		"	"	"	"	"	"	
Pond 9DN R-002B (13H1760-03) Water Sampled: 08/28/13 12:30 Received: 08/28/13 21:50											
Calcium	190	0.010	1.0		mg/l	1	AI30363	09/03/13 14:59	09/10/13 14:24	EPA 200.7	
Magnesium	63	0.0080	1.0		"	"	"	"	"	"	
Downstream (13H1760-05) Water Sampled: 08/28/13 13:20 Received: 08/28/13 21:50											
Calcium	170	0.010	1.0		mg/l	1	AI30363	09/03/13 14:59	09/10/13 14:39	EPA 200.7	
Magnesium	60	0.0080	1.0		"	"	"	"	"	"	
Duplicate (13H1760-06) Water Sampled: 08/28/13 14:00 Received: 08/28/13 21:50											
Calcium	170	0.010	1.0		mg/l	1	AI30363	09/03/13 14:59	09/10/13 14:44	EPA 200.7	
Magnesium	57	0.0080	1.0		"	"	"	"	"	"	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/13/2013

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 / Monthly

Reported:

09/13/13 10:43

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit	Units							
Pond 9 EFF M-002 (13H1760-01) Water Sampled: 08/28/13 12:15 Received: 08/28/13 21:50											
Oil & Grease (HEM)	1.9	0.80	5.0	mg/l	1	AH32924	08/29/13 08:30	09/03/13 09:00	EPA 1664	J	
Total Dissolved Solids	1100	5.0	10	"	"	AI30328	09/03/13 09:45	09/05/13 13:00	SM2540C		
Turbidity	0.42	0.050	0.10	NTU	"	AH33030	08/29/13 13:00	08/29/13 17:00	SM2130B		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	"	"	"	SM2540F	U	
Pond 9UP R-001B (13H1760-02) Water Sampled: 08/28/13 12:25 Received: 08/28/13 21:50											
Total Dissolved Solids	1300	5.0	10	mg/l	1	AI30328	09/03/13 09:45	09/05/13 13:00	SM2540C		
Turbidity	1.2	0.050	0.10	NTU	"	AH33030	08/29/13 13:00	08/29/13 17:00	SM2130B		
Hardness, Total	843	1	5	mg/l	"	AI30363	09/03/13 14:59	09/10/13 14:19	SM2340B		
Pond 9DN R-002B (13H1760-03) Water Sampled: 08/28/13 12:30 Received: 08/28/13 21:50											
Total Dissolved Solids	1200	5.0	10	mg/l	1	AI30328	09/03/13 09:45	09/05/13 13:00	SM2540C		
Turbidity	1.0	0.050	0.10	NTU	"	AH33030	08/29/13 13:00	08/29/13 17:00	SM2130B		
Hardness, Total	723	1	5	mg/l	"	AI30363	09/03/13 14:59	09/10/13 14:24	SM2340B		
Pond 13 EFF M-003 (13H1760-04) Water Sampled: 08/28/13 11:00 Received: 08/28/13 21:50											
Oil & Grease (HEM)	1.7	0.80	5.0	mg/l	1	AH32924	08/29/13 08:30	09/03/13 09:00	EPA 1664	J	
Total Dissolved Solids	1300	5.0	10	"	"	AI30328	09/03/13 09:45	09/05/13 13:00	SM2540C		
Turbidity	3.7	0.050	0.10	NTU	"	AH33030	08/29/13 13:00	08/29/13 17:00	SM2130B		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	"	"	"	SM2540F	U	
Downstream (13H1760-05) Water Sampled: 08/28/13 13:20 Received: 08/28/13 21:50											
Total Dissolved Solids	1100	5.0	10	mg/l	1	AI30328	09/03/13 09:45	09/05/13 13:00	SM2540C		
Turbidity	0.48	0.050	0.10	NTU	"	AH33030	08/29/13 13:00	08/29/13 17:00	SM2130B		
Hardness, Total	669	1	5	mg/l	"	AI30363	09/03/13 14:59	09/10/13 14:39	SM2340B		

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Bruce L. Gove
Laboratory Director

9/13/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 / Monthly

Reported:

09/13/13 10:43

Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Duplicate (13H1760-06) Water Sampled: 08/28/13 14:00 Received: 08/28/13 21:50											
Total Dissolved Solids	1100	5.0	10		mg/l	1	AI30328	09/03/13 09:45	09/05/13 13:00	SM2540C	
Turbidity	2.4	0.050	0.10		NTU	"	AH33030	08/29/13 13:00	08/29/13 17:00	SM2130B	
Hardness, Total	653	1	5		mg/l	"	AI30363	09/03/13 14:59	09/10/13 14:44	SM2340B	

Alpha Analytical Laboratories, Inc.

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Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 / Monthly

Reported:

09/13/13 10:43

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 EFF M-002 (13H1760-01) Water Sampled: 08/28/13 12:15 Received: 08/28/13 21:50											
Chloride	51	0.30	5.0		mg/l	10	AH32922	08/29/13 08:14	08/29/13 17:41	EPA 300.0	
Pond 9UP R-001B (13H1760-02) Water Sampled: 08/28/13 12:25 Received: 08/28/13 21:50											
Chloride	74	0.30	5.0		mg/l	10	AH32922	08/29/13 08:14	08/29/13 17:56	EPA 300.0	
Pond 9DN R-002B (13H1760-03) Water Sampled: 08/28/13 12:30 Received: 08/28/13 21:50											
Chloride	57	0.30	5.0		mg/l	10	AH32922	08/29/13 08:14	08/29/13 18:11	EPA 300.0	
Pond 13 EFF M-003 (13H1760-04) Water Sampled: 08/28/13 11:00 Received: 08/28/13 21:50											
Chloride	54	0.30	5.0		mg/l	10	AH32922	08/29/13 08:14	08/29/13 18:26	EPA 300.0	
Downstream (13H1760-05) Water Sampled: 08/28/13 13:20 Received: 08/28/13 21:50											
Chloride	70	0.30	5.0		mg/l	10	AH32922	08/29/13 08:14	08/29/13 19:11	EPA 300.0	
Duplicate (13H1760-06) Water Sampled: 08/28/13 14:00 Received: 08/28/13 21:50											
Chloride	70	0.30	5.0		mg/l	10	AH32922	08/29/13 08:14	08/29/13 19:27	EPA 300.0	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
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PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 / Monthly

Reported:

09/13/13 10:43

Metals by EPA 200 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI30363 - Metals Digest											
Blank (AI30363-BLK1)											
						Prepared: 09/03/13 Analyzed: 09/09/13					
Calcium	ND	0.010	1.0	mg/l							U
Magnesium	ND	0.0080	1.0	"							U
LCS (AI30363-BS1)											
						Prepared: 09/03/13 Analyzed: 09/09/13					
Calcium	5.19	0.010	1.0	mg/l	6.00		86.4	85-115			
Magnesium	7.44	0.0080	1.0	"	8.00		93.0	85-115			
Duplicate (AI30363-DUP1)											
						Source: 13H1843-03 Prepared: 09/03/13 Analyzed: 09/09/13					
Calcium	83.4	0.010	1.0	mg/l		79.8			4.36	20	
Magnesium	59.7	0.0080	1.0	"		59.3			0.644	20	
Matrix Spike (AI30363-MS1)											
						Source: 13H1843-03 Prepared: 09/03/13 Analyzed: 09/09/13					
Calcium	85.2	0.010	1.0	mg/l	6.00	79.8	89.4	70-130			
Magnesium	67.4	0.0080	1.0	"	8.00	59.3	100	70-130			
Matrix Spike (AI30363-MS2)											
						Source: 13I0032-01 Prepared: 09/03/13 Analyzed: 09/09/13					
Calcium	27.4	0.010	1.0	mg/l	6.00	23.0	74.0	70-130			
Magnesium	18.8	0.0080	1.0	"	8.00	12.5	79.2	70-130			
Matrix Spike Dup (AI30363-MSD1)											
						Source: 13H1843-03 Prepared: 09/03/13 Analyzed: 09/09/13					
Calcium	87.2	0.010	1.0	mg/l	6.00	79.8	123	70-130	2.33	20	
Magnesium	67.2	0.0080	1.0	"	8.00	59.3	97.8	70-130	0.297	20	

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/13/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 / Monthly

Reported:

09/13/13 10:43

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AH32924 - General Preparation

Blank (AH32924-BLK1)

Prepared: 08/29/13 Analyzed: 09/03/13

Oil & Grease (HEM)	1.10	0.80	1.4	mg/l							J
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LCS (AH32924-BS1)

Prepared: 08/29/13 Analyzed: 09/03/13

Oil & Grease (HEM)	34.6	0.80	1.4	mg/l	40.0		86.5	78-114		18	
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LCS Dup (AH32924-BSD1)

Prepared: 08/29/13 Analyzed: 09/03/13

Oil & Grease (HEM)	34.5	0.80	1.4	mg/l	40.0		86.2	78-114	0.289	18	
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Matrix Spike (AH32924-MS1)

Source: 13H1760-01

Prepared: 08/29/13 Analyzed: 09/03/13

Oil & Grease (HEM)	19.9	0.80	1.4	mg/l	20.0	1.90	90.0	78-114		18	
--------------------	------	------	-----	------	------	------	------	--------	--	----	--

Batch AH33030 - General Preparation

Duplicate (AH33030-DUP1)

Source: 13H1760-05

Prepared & Analyzed: 08/29/13

Turbidity	0.490	0.050	0.10	NTU		0.480			2.06	30	
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Batch AI30328 - General Preparation

Blank (AI30328-BLK1)

Prepared: 09/03/13 Analyzed: 09/05/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
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Duplicate (AI30328-DUP1)

Source: 13H1754-02

Prepared: 09/03/13 Analyzed: 09/05/13

Total Dissolved Solids	247	5.0	10	mg/l		240			2.87	30	
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Duplicate (AI30328-DUP2)

Source: 13H1760-01

Prepared: 09/03/13 Analyzed: 09/05/13

Total Dissolved Solids	1130	5.0	10	mg/l		1110			1.43	30	
------------------------	------	-----	----	------	--	------	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 / Monthly

Reported:

09/13/13 10:43

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AI30363 - Metals Digest

Blank (AI30363-BLK1)

Prepared: 09/03/13 Analyzed: 09/09/13

Hardness, Total ND 1 5 mg/l U

Duplicate (AI30363-DUP1)

Source: 13H1843-03

Prepared: 09/03/13 Analyzed: 09/09/13

Hardness, Total 454 1 5 mg/l 444 2.33 20

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove signature

Bruce L. Gove Laboratory Director

9/13/2013



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Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 / Monthly

Reported:

09/13/13 10:43

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH32922 - General Preparation											
Blank (AH32922-BLK1)					Prepared & Analyzed: 08/29/13						
Chloride	ND	0.030	0.50	mg/l							U
LCS (AH32922-BS1)					Prepared & Analyzed: 08/29/13						
Chloride	10.8	0.030	0.50	mg/l	11.1		97.2	90-110			
Duplicate (AH32922-DUP1)					Source: 13H1779-05 Prepared & Analyzed: 08/29/13						
Chloride	4.60	0.030	0.50	mg/l		4.59			0.283	20	
Matrix Spike (AH32922-MS1)					Source: 13H1779-05 Prepared & Analyzed: 08/29/13						
Chloride	16.1	0.030	0.50	mg/l	11.1	4.59	104	80-120			
Matrix Spike (AH32922-MS2)					Source: 13H1754-02 Prepared & Analyzed: 08/29/13						
Chloride	31.2	0.15	2.5	mg/l	11.1	20.2	99.6	80-120			
Matrix Spike Dup (AH32922-MSD1)					Source: 13H1779-05 Prepared & Analyzed: 08/29/13						
Chloride	16.0	0.030	0.50	mg/l	11.1	4.59	103	80-120	0.401	20	

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
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9/13/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 / Monthly

Reported:

09/13/13 10:43

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- U Analyte included in analysis, but not detected at or above MDL.
- 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

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/13/2013

13H1760

Golder Associates
CHAIN OF CUSTODY

Page 1 of 1
Quotation No. Invoice Lehigh



PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?	
062-7109-914		Monthly Lehigh STG permit		Turbidity TSS/Chloride @ + G Tot Set Mat Hardness		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S):		CONTRACT LABORATORY:		Type/Vol.		EDF required?	
David Walter (printed) David C. Walter (signature)		Alpha Standard		N N N N N N - - H2SO4 - -		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
TURN-AROUND TIME:		Collection		Filter		Remarks	
		Date Time		Preserv.		Cont. Qty. Include J-Flags	
Pond 9 Eff m-002	8-28-13	1215	W	1	2	X	4
Pond 9 HE R-001A	1225			1		X	2
Pond 9 DM R-002B	1230			1		X	2
Pond 13 Eff m-003	1100			1	2	X	4
Downstream	1320			1		X	2
Duplicate	1400			1		X	2

Reinquired by: (signature)
David C. Walt

Reinquired by: (signature)
D. Walt

Reinquired by: (signature)
D. Walt

Received by: (signature)
D. Walt

Received by: (signature)
D. Walt

Received by: (signature)
D. Walt

SEND RESULTS TO:
Attn: George Wegmann, Greg Knapp
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224



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ELAP Certificate Numbers 1551 and 2728

13 September 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13H1841

Enclosed are the results of analyses for samples received by the laboratory on 08/29/13 22:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 Monthly Comp.

Reported:

09/13/13 13:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13H1841-01	Water	08/29/13 12:00	08/29/13 22:40
Pond 9 Comp.	13H1841-02	Water	08/29/13 13:30	08/29/13 22:40
Pond 13B Comp.	13H1841-03	Water	08/29/13 12:50	08/29/13 22:40

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/13/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 Monthly Comp.

Reported:

09/13/13 13:30

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13H1841-01) Water Sampled: 08/29/13 12:00 Received: 08/29/13 22:40											
Oil & Grease (HEM)	1.2	0.80	1.4		mg/l	1	AI30432	09/04/13 08:30	09/05/13 16:00	EPA 1664	J
Total Dissolved Solids	860	5.0	10		"	"	AI30430	09/04/13 10:30	09/06/13 13:45	SM2540C	
Turbidity	1.8	0.050	0.10		NTU	"	AI30355	08/30/13 16:00	08/30/13 17:00	SM2130B	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	"	"	"	SM2540F	U
Pond 9 Comp. (13H1841-02) Water Sampled: 08/29/13 13:30 Received: 08/29/13 22:40											
Total Suspended Solids	4.2	0.30	1.0		mg/l	1	AH33020	08/30/13 15:00	09/03/13 15:18	SM2540D	
Pond 13B Comp. (13H1841-03) Water Sampled: 08/29/13 12:50 Received: 08/29/13 22:40											
Total Suspended Solids	6.0	0.30	1.0		mg/l	1	AH33020	08/30/13 15:00	09/03/13 15:18	SM2540D	

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/13/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 Monthly Comp.

Reported:

09/13/13 13:30

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13H1841-01) Water Sampled: 08/29/13 12:00 Received: 08/29/13 22:40											
Chloride	44	0.30	5.0		mg/l	10	AH33022	08/30/13 11:33	08/31/13 07:23	EPA 300.0	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/13/2013

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Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 Monthly Comp.

Reported:

09/13/13 13:30

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AH33020 - General Preparation

Blank (AH33020-BLK1)

Prepared: 08/30/13 Analyzed: 09/03/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
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Duplicate (AH33020-DUP1)

Source: 13H1767-01

Prepared: 08/30/13 Analyzed: 09/03/13

Total Suspended Solids	470	0.30	0.50	mg/l		390			18.6	30	
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Duplicate (AH33020-DUP2)

Source: 13H1775-06

Prepared: 08/30/13 Analyzed: 09/03/13

Total Suspended Solids	365	0.30	0.50	mg/l		460			23.0	30	
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Batch AI30430 - General Preparation

Blank (AI30430-BLK1)

Prepared: 09/04/13 Analyzed: 09/06/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
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Duplicate (AI30430-DUP1)

Source: 13H1841-01

Prepared: 09/04/13 Analyzed: 09/06/13

Total Dissolved Solids	776	5.0	10	mg/l		856			9.80	30	
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Duplicate (AI30430-DUP2)

Source: 13H1843-03

Prepared: 09/04/13 Analyzed: 09/06/13

Total Dissolved Solids	364	5.0	10	mg/l		364			0.00	30	
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Batch AI30432 - General Preparation

Blank (AI30432-BLK1)

Prepared: 09/04/13 Analyzed: 09/05/13

Oil & Grease (HEM)	0.900	0.80	1.4	mg/l							J
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LCS (AI30432-BS1)

Prepared: 09/04/13 Analyzed: 09/05/13

Oil & Grease (HEM)	35.4	0.80	1.4	mg/l	40.0		88.5	78-114		18	
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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 Monthly Comp.

Reported:

09/13/13 13:30

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AI30432 - General Preparation

LCS Dup (AI30432-BSD1)

Prepared: 09/04/13 Analyzed: 09/05/13

Oil & Grease (HEM)	34.3	0.80	1.4	mg/l	40.0		85.8	78-114	3.16	18	
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Matrix Spike (AI30432-MS1)

Source: 13H1841-01

Prepared: 09/04/13 Analyzed: 09/05/13

Oil & Grease (HEM)	18.6	0.80	1.4	mg/l	20.0	1.20	87.0	78-114		18	
--------------------	------	------	-----	------	------	------	------	--------	--	----	--

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Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 Monthly Comp.

Reported:

09/13/13 13:30

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH33022 - General Preparation											
Blank (AH33022-BLK1) Prepared: 08/30/13 Analyzed: 08/31/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AH33022-BS1) Prepared: 08/30/13 Analyzed: 08/31/13											
Chloride	11.2	0.030	0.50	mg/l	11.1		101	90-110			
Duplicate (AH33022-DUP1) Source: 13H1849-01 Prepared: 08/30/13 Analyzed: 08/31/13											
Chloride	4.00	0.030	0.50	mg/l		4.03			0.823	20	
Matrix Spike (AH33022-MS1) Source: 13H1849-01 Prepared: 08/30/13 Analyzed: 08/31/13											
Chloride	15.0	0.060	1.0	mg/l	11.1	4.03	98.6	80-120			
Matrix Spike (AH33022-MS2) Source: 13H1859-01 Prepared: 08/30/13 Analyzed: 08/31/13											
Chloride	45.1	0.15	2.5	mg/l	11.1	34.5	95.6	80-120			
Matrix Spike Dup (AH33022-MSD1) Source: 13H1849-01 Prepared: 08/30/13 Analyzed: 08/31/13											
Chloride	15.0	0.060	1.0	mg/l	11.1	4.03	98.5	80-120	0.0445	20	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
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Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 Monthly Comp.

Reported:

09/13/13 13:30

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- U Analyte included in analysis, but not detected at or above MDL.
- 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

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/13/2013

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Golder Associates CHAIN OF CUSTODY

13H1841

Quotation No. Invoice Lehigh

Temp

PROJECT NO.: 063-7109-914		SITE NAME: Lehigh S&G permit		ANALYSES	
SAMPLER(S): David Walter		CONTRACT LABORATORY: Alpha		<input checked="" type="checkbox"/> EDD required? <input type="checkbox"/> No	
TURN-AROUND TIME: Standard		CONTAINER INFO:		<input checked="" type="checkbox"/> EDF required? <input type="checkbox"/> No	
Sample I.D.	Lab I.D.	Collection Date	Collection Time	Matrix	Depth
Pond 4A Eff M-001		8-21-13	1200	W	
Pond 9 Comp.			1330		
Pond 13B Comp.			1200		
Type/Vol.		Filter		Preserv.	
IL 600ml 1L		N N N N		- - - 1455a	
Tot Set Mat		Turbidity		TSS	
TDS, Chloride		0 x G			
Remarks		Cont. Qty.			
Include 3 flags		4			
		2			
		2			
Relinquished by: (signature) David C Valt		Received by: (signature) Tom Aylor		Date/Time: 8/29/13 14:45	
Relinquished by: (signature) Tom Aylor		Received by: (signature) R. W. ...		Date/Time: 8-29-13 1930	
Relinquished by: (signature) R. W. ...		Received by: (signature) LAB R. W. ...		Date/Time: 8-29-13 2000	
SEND RESULTS TO:		Attn: George Wegmann, Greg Knapp, Chow Yip Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224			



Alpha

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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

19 September 2013



Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 1310283

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF M-002	1310283-01	Water	09/04/13 12:10	09/04/13 21:40
Pond 9 UP R-001B	1310283-02	Water	09/04/13 12:20	09/04/13 21:40
Pond 9 DN R-002B	1310283-03	Water	09/04/13 12:30	09/04/13 21:40
Pond 13 EFF M-003	1310283-04	Water	09/04/13 13:50	09/04/13 21:40
Downstream	1310283-05	Water	09/04/13 15:45	09/04/13 21:40
Duplicate	1310283-06	Water	09/04/13 16:00	09/04/13 21:40
Field Blank	1310283-07	Water	09/04/13 15:45	09/04/13 21:40
Bottle Blank	1310283-08	Water	09/04/13 00:00	09/04/13 21:40

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/19/2013



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Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 UP R-001B (1310283-02) Water Sampled: 09/04/13 12:20 Received: 09/04/13 21:40											
Calcium	230	0.010	1.0		mg/l	1	AI31323	09/16/13 09:55	09/18/13 16:27	EPA 200.7	
Magnesium	65	0.0080	1.0		"	"	"	"	"	"	
Pond 9 DN R-002B (1310283-03) Water Sampled: 09/04/13 12:30 Received: 09/04/13 21:40											
Calcium	190	0.010	1.0		mg/l	1	AI31323	09/16/13 09:55	09/18/13 16:32	EPA 200.7	
Magnesium	61	0.0080	1.0		"	"	"	"	"	"	
Downstream (1310283-05) Water Sampled: 09/04/13 15:45 Received: 09/04/13 21:40											
Calcium	160	0.010	1.0		mg/l	1	AI31323	09/16/13 09:55	09/18/13 16:37	EPA 200.7	
Magnesium	60	0.0080	1.0		"	"	"	"	"	"	
Duplicate (1310283-06) Water Sampled: 09/04/13 16:00 Received: 09/04/13 21:40											
Calcium	160	0.010	1.0		mg/l	1	AI31323	09/16/13 09:55	09/18/13 17:00	EPA 200.7	
Magnesium	55	0.0080	1.0		"	"	"	"	"	"	

Alpha Analytical Laboratories, Inc.

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Metals by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 EFF M-002 (1310283-01) Water Sampled: 09/04/13 12:10 Received: 09/04/13 21:40											
Mercury	1.46	0.200	0.500		ng/l	1	AI31631	09/13/13 17:00	09/16/13 16:21	EPA 1631E	
Pond 9 UP R-001B (1310283-02) Water Sampled: 09/04/13 12:20 Received: 09/04/13 21:40											
Mercury	10.3	0.200	0.500		ng/l	1	AI31631	09/13/13 17:00	09/16/13 16:29	EPA 1631E	
Pond 9 DN R-002B (1310283-03) Water Sampled: 09/04/13 12:30 Received: 09/04/13 21:40											
Mercury	1.02	0.200	0.500		ng/l	1	AI31631	09/13/13 17:00	09/16/13 16:37	EPA 1631E	
Pond 13 EFF M-003 (1310283-04) Water Sampled: 09/04/13 13:50 Received: 09/04/13 21:40											
Mercury	9.22	0.200	0.500		ng/l	1	AI31631	09/13/13 17:00	09/16/13 16:44	EPA 1631E	
Downstream (1310283-05) Water Sampled: 09/04/13 15:45 Received: 09/04/13 21:40											
Mercury	11.4	0.200	0.500		ng/l	1	AI31631	09/13/13 17:00	09/16/13 16:52	EPA 1631E	
Duplicate (1310283-06) Water Sampled: 09/04/13 16:00 Received: 09/04/13 21:40											
Mercury	4.38	0.200	0.500		ng/l	1	AI31631	09/13/13 17:00	09/16/13 16:59	EPA 1631E	
Field Blank (1310283-07) Water Sampled: 09/04/13 15:45 Received: 09/04/13 21:40											
Mercury	ND	0.200	0.500		ng/l	1	AI31631	09/13/13 17:00	09/16/13 17:07	EPA 1631E	U

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/19/2013

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 EFF M-002 (13I0283-01) Water Sampled: 09/04/13 12:10 Received: 09/04/13 21:40											
Oil & Grease (HEM)	1.5	0.80	1.4		mg/l	1	AI30522	09/05/13 08:30	09/06/13 14:00	EPA 1664	
Total Dissolved Solids	1200	5.0	10		"	"	AI31024	09/10/13 10:30	09/12/13 08:45	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI30606	09/05/13 13:00	09/05/13 17:00	SM2540F	U
Pond 9 UP R-001B (13I0283-02) Water Sampled: 09/04/13 12:20 Received: 09/04/13 21:40											
Total Dissolved Solids	1500	5.0	10		mg/l	1	AI31024	09/10/13 10:30	09/12/13 08:45	SM2540C	
Total Suspended Solids	1.2	0.30	0.50		"	"	AI30625	09/09/13 10:00	09/10/13 11:55	SM2540D	
Hardness, Total	833	1	5		"	"	AI31323	09/16/13 09:55	09/18/13 16:27	SM2340B	
Pond 9 DN R-002B (13I0283-03) Water Sampled: 09/04/13 12:30 Received: 09/04/13 21:40											
Total Dissolved Solids	1200	5.0	10		mg/l	1	AI31024	09/10/13 10:30	09/12/13 08:45	SM2540C	
Total Suspended Solids	2.9	0.30	0.50		"	"	AI30625	09/09/13 10:00	09/10/13 11:55	SM2540D	
Hardness, Total	726	1	5		"	"	AI31323	09/16/13 09:55	09/18/13 16:32	SM2340B	
Pond 13 EFF M-003 (13I0283-04) Water Sampled: 09/04/13 13:50 Received: 09/04/13 21:40											
Oil & Grease (HEM)	1.5	0.80	1.4		mg/l	1	AI30522	09/05/13 08:30	09/06/13 14:00	EPA 1664	
Total Dissolved Solids	1400	5.0	10		"	"	AI31024	09/10/13 10:30	09/12/13 08:45	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI30606	09/05/13 13:00	09/05/13 17:00	SM2540F	U
Downstream (13I0283-05) Water Sampled: 09/04/13 15:45 Received: 09/04/13 21:40											
Oil & Grease (HEM)	1.1	0.80	1.4		mg/l	1	AI30522	09/05/13 08:30	09/06/13 14:00	EPA 1664	J
Total Dissolved Solids	1200	5.0	10		"	"	AI31024	09/10/13 10:30	09/12/13 08:45	SM2540C	
Total Suspended Solids	10	0.30	0.50		"	"	AI30625	09/09/13 10:00	09/10/13 11:55	SM2540D	
Hardness, Total	659	1	5		"	"	AI31323	09/16/13 09:55	09/18/13 16:37	SM2340B	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI30606	09/05/13 13:00	09/05/13 17:00	SM2540F	U

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/19/2013

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Duplicate (13I0283-06) Water Sampled: 09/04/13 16:00 Received: 09/04/13 21:40											
Oil & Grease (HEM)	1.8	0.80	1.4		mg/l	1	AI30522	09/05/13 08:30	09/06/13 14:00	EPA 1664	
Total Dissolved Solids	1200	5.0	10		"	"	AI31024	09/10/13 10:30	09/12/13 08:45	SM2540C	
Total Suspended Solids	4.6	0.30	0.50		"	"	AI30625	09/09/13 10:00	09/10/13 11:55	SM2540D	
Hardness, Total	629	1	5		"	"	AI31323	09/16/13 09:55	09/18/13 17:00	SM2340B	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI30606	09/05/13 13:00	09/05/13 17:00	SM2540F	U

Alpha Analytical Laboratories, Inc.

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PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 EFF M-002 (13I0283-01) Water Sampled: 09/04/13 12:10 Received: 09/04/13 21:40											
Chloride	53	0.75	12		mg/l	25	AI31045	09/10/13 11:00	09/10/13 20:06	EPA 300.0	
Pond 9 UP R-001B (13I0283-02) Water Sampled: 09/04/13 12:20 Received: 09/04/13 21:40											
Chloride	84	1.5	25		mg/l	50	AI31045	09/10/13 11:00	09/10/13 20:21	EPA 300.0	
Pond 9 DN R-002B (13I0283-03) Water Sampled: 09/04/13 12:30 Received: 09/04/13 21:40											
Chloride	59	0.75	12		mg/l	25	AI31045	09/10/13 11:00	09/10/13 21:36	EPA 300.0	
Pond 13 EFF M-003 (13I0283-04) Water Sampled: 09/04/13 13:50 Received: 09/04/13 21:40											
Chloride	53	0.75	12		mg/l	25	AI31045	09/10/13 11:00	09/10/13 21:51	EPA 300.0	
Downstream (13I0283-05) Water Sampled: 09/04/13 15:45 Received: 09/04/13 21:40											
Chloride	70	0.75	12		mg/l	25	AI31045	09/10/13 11:00	09/10/13 22:06	EPA 300.0	
Duplicate (13I0283-06) Water Sampled: 09/04/13 16:00 Received: 09/04/13 21:40											
Chloride	70	0.75	12		mg/l	25	AI31045	09/10/13 11:00	09/10/13 22:21	EPA 300.0	

Alpha Analytical Laboratories, Inc.

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Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Metals by EPA 200 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI31323 - Metals Digest											
Blank (AI31323-BLK1)											
					Prepared: 09/13/13 Analyzed: 09/16/13						
Calcium	ND	0.010	1.0	mg/l							U
Magnesium	ND	0.0080	1.0	"							U
LCS (AI31323-BS1)											
					Prepared: 09/13/13 Analyzed: 09/16/13						
Calcium	5.10	0.010	1.0	mg/l	6.00		85.0	85-115			
Magnesium	7.48	0.0080	1.0	"	8.00		93.5	85-115			
Duplicate (AI31323-DUP1)											
					Source: 1310887-02 Prepared: 09/13/13 Analyzed: 09/16/13						
Calcium	6.81	0.010	1.0	mg/l		6.96			2.23	20	
Magnesium	0.340	0.0080	1.0	"		0.313			8.41	20	J
Matrix Spike (AI31323-MS1)											
					Source: 1310887-02 Prepared: 09/13/13 Analyzed: 09/16/13						
Calcium	12.3	0.010	1.0	mg/l	6.00	6.96	89.2	70-130			
Magnesium	7.32	0.0080	1.0	"	8.00	0.313	87.6	70-130			
Matrix Spike (AI31323-MS2)											
					Source: 1310808-02 Prepared: 09/13/13 Analyzed: 09/16/13						
Calcium	80.2	0.010	1.0	mg/l	6.00	76.7	58.6	70-130			QM-4X
Magnesium	63.5	0.0080	1.0	"	8.00	56.2	90.7	70-130			
Matrix Spike Dup (AI31323-MSD1)											
					Source: 1310887-02 Prepared: 09/13/13 Analyzed: 09/16/13						
Calcium	12.4	0.010	1.0	mg/l	6.00	6.96	90.3	70-130	0.536	20	
Magnesium	7.01	0.0080	1.0	"	8.00	0.313	83.7	70-130	4.37	20	

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Metals by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI31631 - EPA 1631											
Blank (AI31631-BLK1)											
						Prepared: 09/13/13 Analyzed: 09/16/13					
Mercury	ND	0.200	0.500	ng/l							U
Mercury	ND	0.200	0.500	"							U
LCS (AI31631-BS1)											
						Prepared: 09/13/13 Analyzed: 09/16/13					
Mercury	4.98	0.200	0.500	ng/l	5.00		99.6	77-123			
Matrix Spike (AI31631-MS1)											
						Source: 1310217-03 Prepared: 09/13/13 Analyzed: 09/16/13					
Mercury	30.0	0.200	0.500	ng/l	25.0	0.827	117	71-125			
Matrix Spike (AI31631-MS2)											
						Source: 1310825-02 Prepared: 09/13/13 Analyzed: 09/16/13					
Mercury	30.0	0.200	0.500	ng/l	25.0	1.34	115	71-125			
Matrix Spike Dup (AI31631-MSD1)											
						Source: 1310217-03 Prepared: 09/13/13 Analyzed: 09/16/13					
Mercury	31.2	0.200	0.500	ng/l	25.0	0.827	121	71-125	3.92	24	
Matrix Spike Dup (AI31631-MSD2)											
						Source: 1310825-02 Prepared: 09/13/13 Analyzed: 09/16/13					
Mercury	30.5	0.200	0.500	ng/l	25.0	1.34	117	71-125	1.65	24	

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AI30522 - General Preparation

Blank (AI30522-BLK1)

Prepared: 09/05/13 Analyzed: 09/06/13

Oil & Grease (HEM)	1.00	0.80	1.4	mg/l							J
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LCS (AI30522-BS1)

Prepared: 09/05/13 Analyzed: 09/06/13

Oil & Grease (HEM)	38.4	0.80	1.4	mg/l	40.0		96.0	78-114		18	
--------------------	------	------	-----	------	------	--	------	--------	--	----	--

LCS (AI30522-BS2)

Prepared: 09/05/13 Analyzed: 09/06/13

Oil & Grease (HEM)	38.0	0.80	1.4	mg/l	40.0		95.0	78-114		18	
--------------------	------	------	-----	------	------	--	------	--------	--	----	--

Matrix Spike (AI30522-MS1)

Source: 1310289-01

Prepared: 09/05/13 Analyzed: 09/06/13

Oil & Grease (HEM)	21.1	0.80	1.4	mg/l	20.0	1.40	98.5	78-114		18	
--------------------	------	------	-----	------	------	------	------	--------	--	----	--

Batch AI30625 - General Preparation

Blank (AI30625-BLK1)

Prepared: 09/09/13 Analyzed: 09/10/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AI30625-DUP1)

Source: 1310199-01

Prepared: 09/09/13 Analyzed: 09/10/13

Total Suspended Solids	296	0.30	0.50	mg/l		296			0.00	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AI30625-DUP2)

Source: 1310203-01

Prepared: 09/09/13 Analyzed: 09/10/13

Total Suspended Solids	124	0.30	0.50	mg/l		140			12.1	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Batch AI31024 - General Preparation

Blank (AI31024-BLK1)

Prepared: 09/10/13 Analyzed: 09/12/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Alpha Analytical Laboratories, Inc.

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 L. Gove
Laboratory Director

9/19/2013



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

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AI31024 - General Preparation

Duplicate (AI31024-DUP1)

Source: 1310283-01

Prepared: 09/10/13 Analyzed: 09/12/13

Total Dissolved Solids	1220	5.0	10	mg/l		1220			0.327	30	
------------------------	------	-----	----	------	--	------	--	--	-------	----	--

Duplicate (AI31024-DUP2)

Source: 1310314-08

Prepared: 09/10/13 Analyzed: 09/12/13

Total Dissolved Solids	204	5.0	10	mg/l		193			5.54	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Batch AI31323 - Metals Digest

Blank (AI31323-BLK1)

Prepared: 09/13/13 Analyzed: 09/16/13

Hardness, Total	ND	1	5	mg/l							U
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Duplicate (AI31323-DUP1)

Source: 1310887-02

Prepared: 09/13/13 Analyzed: 09/16/13

Hardness, Total	18	1	5	mg/l		19			1.46	20	
-----------------	----	---	---	------	--	----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

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9/19/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AI31045 - General Preparation

Blank (AI31045-BLK1)

Prepared: 09/10/13 Analyzed: 09/11/13

Chloride	ND	0.030	0.50	mg/l							U
----------	----	-------	------	------	--	--	--	--	--	--	---

LCS (AI31045-BS1)

Prepared & Analyzed: 09/10/13

Chloride	2.94	0.030	0.50	mg/l	3.03		97.1	90-110			
----------	------	-------	------	------	------	--	------	--------	--	--	--

Duplicate (AI31045-DUP1)

Source: 1310539-01

Prepared & Analyzed: 09/10/13

Chloride	4.86	0.030	0.50	mg/l		4.82			0.806	20	
----------	------	-------	------	------	--	------	--	--	-------	----	--

Matrix Spike (AI31045-MS1)

Source: 1310539-01

Prepared & Analyzed: 09/10/13

Chloride	15.2	0.15	2.5	mg/l	11.1	4.82	93.0	80-120			
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Matrix Spike Dup (AI31045-MSD1)

Source: 1310539-01

Prepared & Analyzed: 09/10/13

Chloride	15.3	0.15	2.5	mg/l	11.1	4.82	94.1	80-120	0.803	20	
----------	------	------	-----	------	------	------	------	--------	-------	----	--

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove

Bruce L. Gove
Laboratory Director

9/19/2013



Alpha

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Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914/Quarterly

Reported:

09/19/13 14:20

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- U Analyte included in analysis, but not detected at or above MDL.
- 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

Alpha Analytical Laboratories, Inc.

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 L. Gove
Laboratory Director

9/19/2013



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1309120

Report Created for: Alpha Analytical Laboratories
208 Mason Street
Ukiah, CA 95482

Project Contact: Robert C. Phillips
Project Name: #13I0283
Project P.O.:

Project Received: 09/06/2013

Analytical Report reviewed & approved for release on 09/12/2013 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Alpha Analytical Laboratories
Project: #1310283
WorkOrder: 1309120

<u>Glossary Abbreviation</u>	<u>Description</u>
95% Interval	95% Confident Interval
DF	Dilution Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Analytical Report

Client: Alpha Analytical Laboratories
Project: #1310283
Date Received: 9/6/13 9:09
Date Prepared: 9/6/13-9/11/13

WorkOrder: 1309120
Extraction Method: E218.6
Analytical Method: E218.6
Unit: µg/L

Hexachrome by IC

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
Pond 9 EFF M-002	1309120-001A	Water	09/04/2013 12:10	IC2	81411

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.20	1	09/06/2013 20:02

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
Pond 9 UP R-001B	1309120-002A	Water	09/04/2013 12:20	IC2	81411

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.20	1	09/10/2013 11:15

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
Pond 9 DN R-002B	1309120-003A	Water	09/04/2013 12:30	IC2	81411

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.20	1	09/06/2013 20:41

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
Pond 9 13 EFF M-003	1309120-004A	Water	09/04/2013 13:50	IC2	81411

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	ND	0.20	1	09/06/2013 21:00

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
Downstream	1309120-005A	Water	09/04/2013 15:45	IC2	81411

Analytes	Result	RL	DF	Date Analyzed
Hexachrome	0.26	0.20	1	09/10/2013 10:14

(Cont.)

Analytical Report

Client: Alpha Analytical Laboratories
Project: #1310283
Date Received: 9/6/13 9:09
Date Prepared: 9/6/13-9/11/13

WorkOrder: 1309120
Extraction Method: E218.6
Analytical Method: E218.6
Unit: µg/L

Hexachrome by IC

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
Duplicate	1309120-006A	Water	09/04/2013 16:00	IC2	81411
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Hexachrome	0.28		0.20	1	09/11/2013 14:08

Quality Control Report

Client: Alpha Analytical Laboratories
Date Prepared: 9/6/13
Date Analyzed: 9/6/13
Instrument: IC2
Matrix: Water
Project: #1310283

WorkOrder: 1309120
BatchID: 81411
Extraction Method: E218.6
Analytical Method: E218.6
Unit: µg/L
Sample ID: MB/LCS-81411

QC SUMMARY REPORT FOR E218.6

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Hexachrome	ND	27.01	0.20	25	-	108	90-110

October 10, 2013

Alpha Analytical Laboratories Inc.
ATTN: Robbie Phillips
208 Mason St.
Ukiah, CA 95482
robbie@alpha-labs.com

RE: Project AAL-DB1301

Client Project: 13I0283

Dear Mr. Phillips,

On September 10, 2013, Brooks Rand Labs (BRL) received eight (8) water samples. Three of the samples (13I0283-04, 13I0283-05, and 13I0283-06) had broken during shipment and were not logged-in. Two samples (13I0283-03 and 13I0283-08) were received with broken lids. The client was contacted and requested that only the intact three samples be analyzed. Samples (13I0283-01, 13I0283-02, and 13I0283-07) were logged-in and analyzed using BRL work order 1337008. On September 12, 2013, BRL received additional volume for the five (5) samples that were unusable in the original shipment. These samples were logged-in under work order 1337022. The samples were logged-in for the contracted analyses of silver (Ag), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), nickel (Ni), lead (Pb), antimony (Sb), selenium (Se), thallium (Tl), and zinc (Zn) according to the chain-of-custody (COC) forms. The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were blank-corrected as described in the calculations section of the relevant SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

The sample 13I0283-07 (1337008-04) was labeled as a field blank and had Cr, Cu, Ni, Pb, and Zn concentrations above the MRL. In addition, the sample 13I0283-08 (1337022-05) was labeled as a bottle blank and had Cr, Cu, Pb, and Zn concentrations above the MRL. The results for the samples may demonstrate possible contamination through field sample collection techniques employed and the bottles that were provided by the client.

The Be matrix spike/matrix spike duplicate (MS/MSD) set performed on sample 13I0283-01 (1337008-01) recovered low at 73% and 70%, respectively. The Be result for sample 13I0283-01 (1337008-01) was qualified **N** for inaccuracy.

The Sb blank spike (BS) B131502-BS1 had a low recovery of 70%. This was a third analysis of the blank spike and the samples. All previous analyses of the blank spike also recovered low. The matrix spikes and standard reference material (SRM) recovered well, however the BS is the only quality control sample that goes through the entire preparation and analysis process with the samples. As a result, all Sb sample results were qualified **J** for potential low bias.

The Ag MS/MSD set performed on sample 13/0283-02 (1337008-02) recovered low at 69% and 73%, respectively. The Ag result for sample 13/0283-02 (1337008-02) was qualified **N** for inaccuracy.

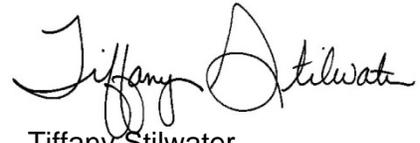
Aside from concentration qualifiers, all data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,



Lydia Greaves
Project Manager
lydia@brooksrand.com



Tiffany Stilwater
Client Services Manager
tiffany@brooksrand.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <<http://www.brooksrand.com/default.asp?contentID=586>>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

Project ID: AAL-DB1301
PM: Lydia Greaves



BRL Report 1337008 & 1337022
Client PM: Robbie Phillips
Client PO: 130903RP-1

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
1310283-01	1337008-01	Water	Sample	09/04/2013	09/10/2013
1310283-02	1337008-02	Water	Sample	09/04/2013	09/10/2013
1310283-03	1337008-03	Water	Sample	09/04/2013	09/10/2013
1310283-07	1337008-04	DIW	Field Blank	09/04/2013	09/10/2013
1310283-08	1337008-05	DIW	Equip. Blank	09/04/2013	09/10/2013

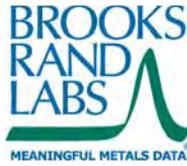


Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
1310283-03	1337022-01	Water	Sample	09/04/2013	09/12/2013
1310283-04	1337022-02	Water	Sample	09/04/2013	09/12/2013
1310283-05	1337022-03	Water	Sample	09/04/2013	09/12/2013
1310283-06	1337022-04	Water	Field Duplicate	09/04/2013	09/12/2013
1310283-08	1337022-05	DIW	Equip. Blank	09/04/2013	09/12/2013

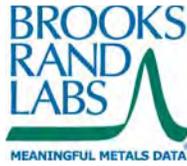
Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ag	Water	EPA 1638	09/23/2013	09/24/2013	B131582	1300649
As	Water	EPA 1638 DRC	09/16/2013	09/25/2013	B131502	1300653
Be	Water	EPA 1638	09/16/2013	09/18/2013	B131503	1300638
Cd	Water	EPA 1638	09/16/2013	09/18/2013	B131503	1300638
Cr	Water	EPA 1638 DRC	09/16/2013	09/19/2013	B131504	1300639
Cu	Water	EPA 1638	09/16/2013	09/18/2013	B131503	1300638
Ni	Water	EPA 1638 DRC	09/16/2013	09/19/2013	B131504	1300639
Pb	Water	EPA 1638	09/16/2013	09/18/2013	B131503	1300638
Sb	Water	EPA 1638	09/23/2013	09/24/2013	B131582	1300649
Se	Water	EPA 1638 DRC	09/16/2013	09/25/2013	B131502	1300653
Tl	Water	EPA 1638	09/16/2013	09/18/2013	B131503	1300638
Zn	Water	EPA 1638	09/16/2013	09/18/2013	B131503	1300638



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
13I0283-01, Pond 9 EFF M-002										
1337008-01	Ag	Water	T	0.005	U	0.005	0.020	µg/L	B131582	1300649
1337008-01	As	Water	T	0.507		0.006	0.025	µg/L	B131502	1300653
1337008-01	Be	Water	T	0.051	N, U	0.051	0.152	µg/L	B131503	1300638
1337008-01	Cd	Water	T	0.278		0.007	0.020	µg/L	B131503	1300638
1337008-01	Cr	Water	T	0.440		0.045	0.152	µg/L	B131504	1300639
1337008-01	Cu	Water	T	0.880		0.040	0.121	µg/L	B131503	1300638
1337008-01	Ni	Water	T	1.90		0.237	1.01	µg/L	B131504	1300639
1337008-01	Pb	Water	T	0.015	B	0.006	0.025	µg/L	B131503	1300638
1337008-01	Sb	Water	T	0.121	J	0.010	0.040	µg/L	B131582	1300649
1337008-01	Se	Water	T	1.96		0.023	0.069	µg/L	B131502	1300653
1337008-01	Tl	Water	T	0.067		0.003	0.010	µg/L	B131503	1300638
1337008-01	Zn	Water	T	4.83		0.06	0.20	µg/L	B131503	1300638
13I0283-02, Pond 9 UP R-001B										
1337008-02	Ag	Water	T	0.005	N, U	0.005	0.020	µg/L	B131582	1300649
1337008-02	As	Water	T	0.622		0.006	0.025	µg/L	B131502	1300653
1337008-02	Be	Water	T	0.051	U	0.051	0.152	µg/L	B131503	1300638
1337008-02	Cd	Water	T	0.261		0.007	0.020	µg/L	B131503	1300638
1337008-02	Cr	Water	T	1.40		0.045	0.152	µg/L	B131504	1300639
1337008-02	Cu	Water	T	1.14		0.040	0.121	µg/L	B131503	1300638
1337008-02	Ni	Water	T	11.7		0.237	1.01	µg/L	B131504	1300639
1337008-02	Pb	Water	T	0.053		0.006	0.025	µg/L	B131503	1300638
1337008-02	Sb	Water	T	0.612	J	0.010	0.040	µg/L	B131582	1300649
1337008-02	Se	Water	T	0.663		0.023	0.069	µg/L	B131502	1300653
1337008-02	Tl	Water	T	0.036		0.003	0.010	µg/L	B131503	1300638
1337008-02	Zn	Water	T	4.28		0.06	0.20	µg/L	B131503	1300638
13I0283-03, Pond 9 DN R-002B										
1337022-01	Ag	Water	T	0.005	U	0.005	0.020	µg/L	B131582	1300649
1337022-01	As	Water	T	0.345		0.006	0.025	µg/L	B131502	1300653
1337022-01	Be	Water	T	0.051	U	0.051	0.152	µg/L	B131503	1300638
1337022-01	Cd	Water	T	0.260		0.007	0.020	µg/L	B131503	1300638
1337022-01	Cr	Water	T	0.173		0.045	0.152	µg/L	B131504	1300639
1337022-01	Cu	Water	T	0.924		0.040	0.121	µg/L	B131503	1300638
1337022-01	Ni	Water	T	8.54		0.237	1.01	µg/L	B131504	1300639
1337022-01	Pb	Water	T	0.049		0.006	0.025	µg/L	B131503	1300638
1337022-01	Sb	Water	T	0.598	J	0.010	0.040	µg/L	B131582	1300649
1337022-01	Se	Water	T	0.514		0.023	0.069	µg/L	B131502	1300653
1337022-01	Tl	Water	T	0.033		0.003	0.010	µg/L	B131503	1300638
1337022-01	Zn	Water	T	2.16		0.06	0.20	µg/L	B131503	1300638



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
1310283-04, Pond 13 EFF M-003										
1337022-02	Ag	Water	T	0.005	U	0.005	0.020	µg/L	B131582	1300649
1337022-02	As	Water	T	1.22		0.006	0.025	µg/L	B131502	1300653
1337022-02	Be	Water	T	0.051	U	0.051	0.152	µg/L	B131503	1300638
1337022-02	Cd	Water	T	0.043		0.007	0.020	µg/L	B131503	1300638
1337022-02	Cr	Water	T	0.499		0.045	0.152	µg/L	B131504	1300639
1337022-02	Cu	Water	T	2.83		0.040	0.121	µg/L	B131503	1300638
1337022-02	Ni	Water	T	3.96		0.237	1.01	µg/L	B131504	1300639
1337022-02	Pb	Water	T	0.071		0.006	0.025	µg/L	B131503	1300638
1337022-02	Sb	Water	T	0.613	J	0.010	0.040	µg/L	B131582	1300649
1337022-02	Se	Water	T	2.42		0.023	0.069	µg/L	B131502	1300653
1337022-02	Tl	Water	T	0.027		0.003	0.010	µg/L	B131503	1300638
1337022-02	Zn	Water	T	12.1		0.06	0.20	µg/L	B131503	1300638
1310283-05, Downstream										
1337022-03	Ag	Water	T	0.005	U	0.005	0.020	µg/L	B131582	1300649
1337022-03	As	Water	T	0.702		0.006	0.025	µg/L	B131502	1300653
1337022-03	Be	Water	T	0.051	U	0.051	0.152	µg/L	B131503	1300638
1337022-03	Cd	Water	T	0.178		0.007	0.020	µg/L	B131503	1300638
1337022-03	Cr	Water	T	1.32		0.045	0.152	µg/L	B131504	1300639
1337022-03	Cu	Water	T	2.33		0.040	0.121	µg/L	B131503	1300638
1337022-03	Ni	Water	T	9.27		0.237	1.01	µg/L	B131504	1300639
1337022-03	Pb	Water	T	0.168		0.006	0.025	µg/L	B131503	1300638
1337022-03	Sb	Water	T	0.358	J	0.010	0.040	µg/L	B131582	1300649
1337022-03	Se	Water	T	1.97		0.023	0.069	µg/L	B131502	1300653
1337022-03	Tl	Water	T	0.091		0.003	0.010	µg/L	B131503	1300638
1337022-03	Zn	Water	T	4.67		0.06	0.20	µg/L	B131503	1300638
1310283-06, Duplicate										
1337022-04	Ag	Water	T	0.005	U	0.005	0.020	µg/L	B131582	1300649
1337022-04	As	Water	T	0.617		0.006	0.025	µg/L	B131502	1300653
1337022-04	Be	Water	T	0.051	U	0.051	0.152	µg/L	B131503	1300638
1337022-04	Cd	Water	T	0.170		0.007	0.020	µg/L	B131503	1300638
1337022-04	Cr	Water	T	0.566		0.045	0.152	µg/L	B131504	1300639
1337022-04	Cu	Water	T	1.64		0.040	0.121	µg/L	B131503	1300638
1337022-04	Ni	Water	T	6.43		0.237	1.01	µg/L	B131504	1300639
1337022-04	Pb	Water	T	0.067		0.006	0.025	µg/L	B131503	1300638
1337022-04	Sb	Water	T	0.010	J, U	0.010	0.040	µg/L	B131582	1300649
1337022-04	Se	Water	T	1.80		0.023	0.069	µg/L	B131502	1300653
1337022-04	Tl	Water	T	0.085		0.003	0.010	µg/L	B131503	1300638
1337022-04	Zn	Water	T	2.27		0.06	0.20	µg/L	B131503	1300638



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
1310283-07, Field Blank										
1337008-04	Ag	DIW	T	0.005	U	0.005	0.020	µg/L	B131582	1300649
1337008-04	As	DIW	T	0.006	U	0.006	0.025	µg/L	B131502	1300653
1337008-04	Be	DIW	T	0.051	U	0.051	0.152	µg/L	B131503	1300638
1337008-04	Cd	DIW	T	0.007	U	0.007	0.020	µg/L	B131503	1300638
1337008-04	Cr	DIW	T	0.328		0.009	0.030	µg/L	B131504	1300639
1337008-04	Cu	DIW	T	0.534		0.040	0.121	µg/L	B131503	1300638
1337008-04	Ni	DIW	T	0.247		0.047	0.202	µg/L	B131504	1300639
1337008-04	Pb	DIW	T	0.047		0.006	0.025	µg/L	B131503	1300638
1337008-04	Sb	DIW	T	0.010	J, U	0.010	0.040	µg/L	B131582	1300649
1337008-04	Se	DIW	T	0.023	U	0.023	0.069	µg/L	B131502	1300653
1337008-04	Tl	DIW	T	0.004	B	0.003	0.010	µg/L	B131503	1300638
1337008-04	Zn	DIW	T	1.31		0.06	0.20	µg/L	B131503	1300638
1310283-08, Bottle Blank										
1337022-05	Ag	DIW	T	0.005	U	0.005	0.020	µg/L	B131582	1300649
1337022-05	As	DIW	T	0.006	U	0.006	0.025	µg/L	B131502	1300653
1337022-05	Be	DIW	T	0.051	U	0.051	0.152	µg/L	B131503	1300638
1337022-05	Cd	DIW	T	0.007	U	0.007	0.020	µg/L	B131503	1300638
1337022-05	Cr	DIW	T	0.049		0.009	0.030	µg/L	B131504	1300639
1337022-05	Cu	DIW	T	0.388		0.040	0.121	µg/L	B131503	1300638
1337022-05	Ni	DIW	T	0.064	B	0.047	0.202	µg/L	B131504	1300639
1337022-05	Pb	DIW	T	0.090		0.006	0.025	µg/L	B131503	1300638
1337022-05	Sb	DIW	T	0.010	J, U	0.010	0.040	µg/L	B131582	1300649
1337022-05	Se	DIW	T	0.023	U	0.023	0.069	µg/L	B131502	1300653
1337022-05	Tl	DIW	T	0.003	U	0.003	0.010	µg/L	B131503	1300638
1337022-05	Zn	DIW	T	0.80		0.06	0.20	µg/L	B131503	1300638



Accuracy & Precision Summary

Batch: B131502
Lab Matrix: Water
Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131502-BS1	Laboratory Fortified Blank (1337045)						
	As		5.051	5.689	µg/L	113% 75-125	
	Se		6.061	6.601	µg/L	109% 75-125	
B131502-SRM1	Certified Reference Material (1245010, NIST 1643e (for batch QC))						
	As		60.45	62.98	µg/L	104% 75-125	
	Se		11.97	12.34	µg/L	103% 75-125	
B131502-DUP1	Duplicate (1337008-01)						
	As	0.507		0.492	µg/L		3% 20
	Se	1.965		1.978	µg/L		0.7% 20
B131502-MS1	Matrix Spike (1337008-01)						
	As	0.507	2.525	3.292	µg/L	110% 75-125	
	Se	1.965	10.10	13.83	µg/L	117% 75-125	
B131502-MSD1	Matrix Spike Duplicate (1337008-01)						
	As	0.507	2.525	3.283	µg/L	110% 75-125	0.3% 20
	Se	1.965	10.10	14.06	µg/L	120% 75-125	2% 20



Accuracy & Precision Summary

Batch: B131503
Lab Matrix: Water
Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131503-BS1	Laboratory Fortified Blank (1337045)						
	Be		3.030	2.809	µg/L	93% 75-125	
	Cd		0.2020	0.202	µg/L	100% 75-125	
	Cu		2.020	1.990	µg/L	99% 75-125	
	Pb		0.5051	0.511	µg/L	101% 75-125	
	Tl		0.2020	0.220	µg/L	109% 75-125	
	Zn		4.040	4.01	µg/L	99% 75-125	
B131503-SRM1	Certified Reference Material (1245010, NIST 1643e (for batch QC))						
	Be		13.98	12.57	µg/L	90% 75-125	
	Cd		6.568	6.557	µg/L	100% 75-125	
	Cu		22.76	22.73	µg/L	100% 75-125	
	Pb		19.63	20.29	µg/L	103% 75-125	
	Tl		7.445	8.202	µg/L	110% 75-125	
	Zn		78.50	78.04	µg/L	99% 75-125	
B131503-DUP1	Duplicate (1337008-01)						
	Be	ND		ND	µg/L		N/C 20
	Cd	0.278		0.267	µg/L		4% 20
	Cu	0.880		0.870	µg/L		1% 20
	Pb	0.015		0.015	µg/L		2% 20
	Tl	0.067		0.067	µg/L		0.8% 20
	Zn	4.83		4.61	µg/L		5% 20
B131503-MS1	Matrix Spike (1337008-01)						
	Be	ND	0.2020	0.156	µg/L	73% 75-125	
	Cd	0.278	0.2020	0.459	µg/L	89% 75-125	
	Cu	0.880	2.020	2.558	µg/L	83% 75-125	
	Pb	0.015	0.5051	0.467	µg/L	90% 75-125	
	Tl	0.067	0.1010	0.163	µg/L	95% 75-125	
	Zn	4.83	10.10	13.30	µg/L	84% 75-125	



Accuracy & Precision Summary

Batch: B131503
 Lab Matrix: Water
 Method: EPA 1638

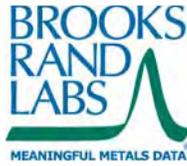
Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131503-MSD1	Matrix Spike Duplicate (1337008-01)						
	Be	ND	0.2020	0.150	µg/L	70% 75-125	4% 20
	Cd	0.278	0.2020	0.459	µg/L	90% 75-125	0.08% 20
	Cu	0.880	2.020	2.490	µg/L	80% 75-125	3% 20
	Pb	0.015	0.5051	0.459	µg/L	88% 75-125	2% 20
	Tl	0.067	0.1010	0.164	µg/L	95% 75-125	0.6% 20
	Zn	4.83	10.10	12.97	µg/L	81% 75-125	3% 20



Accuracy & Precision Summary

Batch: B131504
Lab Matrix: Water
Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131504-BS1	Laboratory Fortified Blank (1337045)						
	Cr		3.030	2.987	µg/L	99% 75-125	
	Ni		4.040	4.139	µg/L	102% 75-125	
B131504-SRM1	Certified Reference Material (1245010, NIST 1643e (for batch QC))						
	Cr		20.40	20.55	µg/L	101% 75-125	
	Ni		62.41	58.87	µg/L	94% 75-125	
B131504-DUP1	Duplicate (1337008-01)						
	Cr	0.440		0.443	µg/L		0.6% 20
	Ni	1.901		2.094	µg/L		10% 20
B131504-MS1	Matrix Spike (1337008-01)						
	Cr	0.440	5.051	5.714	µg/L	104% 75-125	
	Ni	1.901	5.051	6.921	µg/L	99% 75-125	
B131504-MSD1	Matrix Spike Duplicate (1337008-01)						
	Cr	0.440	5.051	5.841	µg/L	107% 75-125	2% 20
	Ni	1.901	5.051	6.580	µg/L	93% 75-125	5% 20



Accuracy & Precision Summary

Batch: B131582
 Lab Matrix: Water
 Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131582-BS1	Laboratory Fortified Blank (1338039)						
	Ag		0.4040	0.394	µg/L	98% 75-125	
	Sb		0.4040	0.284	µg/L	70% 75-125	
B131582-SRM1	Certified Reference Material (1245010, NIST 1643e (for batch QC))						
	Ag		1.062	0.998	µg/L	94% 75-125	
	Sb		58.30	57.48	µg/L	99% 75-125	
B131582-DUP1	Duplicate (1337008-02)						
	Ag	ND		ND	µg/L		N/C 20
	Sb	0.612		0.601	µg/L		2% 20
B131582-MS1	Matrix Spike (1337008-02)						
	Ag	ND	0.2020	0.140	µg/L	69% 75-125	
	Sb	0.612	4.040	4.710	µg/L	101% 75-125	
B131582-MSD1	Matrix Spike Duplicate (1337008-02)						
	Ag	ND	0.2020	0.147	µg/L	73% 75-125	5% 20
	Sb	0.612	4.040	4.751	µg/L	102% 75-125	0.9% 20



Method Blanks & Reporting Limits

Batch: B131502
Matrix: Water
Method: EPA 1638 DRC
Analyte: As 91

Sample	Result	Units		
B131502-BLK1	-0.002	µg/L		
B131502-BLK2	-0.003	µg/L		
B131502-BLK3	-0.004	µg/L		
B131502-BLK4	-0.005	µg/L		
Average:	-0.004		Standard Deviation:	0.001
Limit:	0.025		Limit:	0.006
			MDL:	0.006
			MRL:	0.025

Analyte: Se 78

Sample	Result	Units		
B131502-BLK1	0.016	µg/L		
B131502-BLK2	0.012	µg/L		
B131502-BLK3	0.003	µg/L		
B131502-BLK4	0.003	µg/L		
Average:	0.009		Standard Deviation:	0.007
Limit:	0.069		Limit:	0.023
			MDL:	0.023
			MRL:	0.069



Method Blanks & Reporting Limits

Batch: B131503
Matrix: Water
Method: EPA 1638
Analyte: Be

Sample	Result	Units		
B131503-BLK1	0.043	µg/L		
B131503-BLK2	0.027	µg/L		
B131503-BLK3	0.022	µg/L		
B131503-BLK4	0.026	µg/L		
Average:	0.030		Standard Deviation:	0.009
Limit:	0.152		Limit:	0.051
			MDL:	0.051
			MRL:	0.152

Analyte: Cd 114

Sample	Result	Units		
B131503-BLK1	-0.0005	µg/L		
B131503-BLK2	0.0002	µg/L		
B131503-BLK3	-0.00007	µg/L		
B131503-BLK4	-0.0004	µg/L		
Average:	0.000		Standard Deviation:	0.000
Limit:	0.020		Limit:	0.007
			MDL:	0.007
			MRL:	0.020

Analyte: Cu 63

Sample	Result	Units		
B131503-BLK1	-0.003	µg/L		
B131503-BLK2	-0.009	µg/L		
B131503-BLK3	-0.012	µg/L		
B131503-BLK4	-0.011	µg/L		
Average:	-0.009		Standard Deviation:	0.004
Limit:	0.121		Limit:	0.040
			MDL:	0.040
			MRL:	0.121



Method Blanks & Reporting Limits

Analyte: Pb

Sample	Result	Units		
B131503-BLK1	-0.001	µg/L		
B131503-BLK2	-0.003	µg/L		
B131503-BLK3	-0.004	µg/L		
B131503-BLK4	-0.004	µg/L		
Average:	-0.003		Standard Deviation:	0.001
Limit:	0.025		Limit:	0.006
				MDL: 0.006
				MRL: 0.025

Analyte: Tl

Sample	Result	Units		
B131503-BLK1	-0.001	µg/L		
B131503-BLK2	-0.001	µg/L		
B131503-BLK3	-0.001	µg/L		
B131503-BLK4	-0.001	µg/L		
Average:	-0.001		Standard Deviation:	0.000
Limit:	0.010		Limit:	0.003
				MDL: 0.003
				MRL: 0.010

Analyte: Zn 66

Sample	Result	Units		
B131503-BLK1	-0.09	µg/L		
B131503-BLK2	-0.08	µg/L		
B131503-BLK3	-0.08	µg/L		
B131503-BLK4	-0.10	µg/L		
Average:	-0.09		Standard Deviation:	0.01
Limit:	0.20		Limit:	0.06
				MDL: 0.06
				MRL: 0.20



Method Blanks & Reporting Limits

Batch: B131504
Matrix: Water
Method: EPA 1638 DRC
Analyte: Cr 52

Sample	Result	Units		
B131504-BLK1	0.005	µg/L		
B131504-BLK2	0.006	µg/L		
B131504-BLK3	0.002	µg/L		
B131504-BLK4	0.002	µg/L		
Average:	0.004		Standard Deviation:	0.002
Limit:	0.030		Limit:	0.009
			MDL:	0.009
			MRL:	0.030

Analyte: Ni 62

Sample	Result	Units		
B131504-BLK1	0.0004	µg/L		
B131504-BLK2	-0.004	µg/L		
B131504-BLK3	-0.005	µg/L		
B131504-BLK4	-0.005	µg/L		
Average:	-0.003		Standard Deviation:	0.003
Limit:	0.202		Limit:	0.047
			MDL:	0.047
			MRL:	0.202



Method Blanks & Reporting Limits

Batch: B131582
Matrix: Water
Method: EPA 1638
Analyte: Ag 107

Sample	Result	Units		
B131582-BLK1	-0.0005	µg/L		
B131582-BLK2	-0.001	µg/L		
B131582-BLK3	-0.002	µg/L		
B131582-BLK4	-0.0008	µg/L		
Average:	-0.001		Standard Deviation:	0.001
Limit:	0.020		Limit:	0.005
				MDL: 0.005
				MRL: 0.020

Analyte: Sb

Sample	Result	Units		
B131582-BLK1	0.00001	µg/L		
B131582-BLK2	-0.0007	µg/L		
B131582-BLK3	-0.0004	µg/L		
B131582-BLK4	-0.00005	µg/L		
Average:	0.000		Standard Deviation:	0.000
Limit:	0.040		Limit:	0.010
				MDL: 0.010
				MRL: 0.040



Sample Containers

Lab ID: 1337008-01
Sample: 1310283-01

Report Matrix: Water
Sample Type: Sample

Collected: 09/04/2013
Received: 09/10/2013

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle Glass	500mL	not provided	0.1% HNO3 (BRL)	1310013	<2	Cooler in box

Lab ID: 1337008-02
Sample: 1310283-02

Report Matrix: Water
Sample Type: Sample

Collected: 09/04/2013
Received: 09/10/2013

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle Glass	500mL	not provided	0.1% HNO3 (BRL)	1310013	<2	Cooler in box

Lab ID: 1337008-03
Sample: 1310283-03

Report Matrix: Water
Sample Type: Sample

Collected: 09/04/2013
Received: 09/10/2013

Comments: Client cancelled due to broken lid - sent replacement

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle Glass	500mL	043344	0.1% HNO3 (BRL)	1310013	<2	Cooler in box

Comments: Broken lid. Transferred from original container

Lab ID: 1337008-04
Sample: 1310283-07

Report Matrix: DIW
Sample Type: Field Blank

Collected: 09/04/2013
Received: 09/10/2013

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle Glass	500mL	not provided	0.1% HNO3 (BRL)	1310013	<2	Cooler in box

Lab ID: 1337008-05
Sample: 1310283-08

Report Matrix: DIW
Sample Type: Equip. Blank

Collected: 09/04/2013
Received: 09/10/2013

Comments: Client cancelled due to broken lid - sent replacement

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle Glass	500mL	043344	0.1% HNO3 (BRL)	1310013	<2	Cooler in box

Comments: Broken lid. Transferred from original container



Sample Containers

Lab ID: 1337022-01 Sample: 1310283-03			Report Matrix: Water Sample Type: Sample		Collected: 09/04/2013 Received: 09/12/2013
Des Container A Client-Provided	Size 1L	Lot not provided	Preservation 0.1% HNO3	P-Lot 1331069	pH <2 Ship. Cont. Cardboard Box
Lab ID: 1337022-02 Sample: 1310283-04			Report Matrix: Water Sample Type: Sample		Collected: 09/04/2013 Received: 09/12/2013
Des Container A Client-Provided	Size 1L	Lot not provided	Preservation 0.1% HNO3	P-Lot 1331069	pH <2 Ship. Cont. Cardboard Box
Lab ID: 1337022-03 Sample: 1310283-05			Report Matrix: Water Sample Type: Sample		Collected: 09/04/2013 Received: 09/12/2013
Des Container A Client-Provided	Size 1L	Lot not provided	Preservation 0.1% HNO3	P-Lot 1331069	pH <2 Ship. Cont. Cardboard Box
Lab ID: 1337022-04 Sample: 1310283-06			Report Matrix: Water Sample Type: Field Duplicate		Collected: 09/04/2013 Received: 09/12/2013
Des Container A Client-Provided	Size 1L	Lot not provided	Preservation 0.1% HNO3	P-Lot 1331069	pH <2 Ship. Cont. Cardboard Box
Lab ID: 1337022-05 Sample: 1310283-08			Report Matrix: DIW Sample Type: Equip. Blank		Collected: 09/04/2013 Received: 09/12/2013
Des Container A Client-Provided	Size 1L	Lot not provided	Preservation 0.1% HNO3	P-Lot 1331069	pH <2 Ship. Cont. Cardboard Box

Project ID: AAL-DB1301
PM: Lydia Greaves



BRL Report 1337008 & 1337022
Client PM: Robbie Phillips
Client PO: 130903RP-1

Shipping Containers

Cooler in box

Received: September 10, 2013 10:00
Tracking No: 1Z8942500147335749 via UPS
Coolant Type: Blue Ice
Temperature: 0.4 °C

Description: Cooler in box
Damaged in transit? No
Returned to client? No

Custody seals present? No
Custody seals intact? No
COC present? Yes

Shipping Containers

Cardboard Box

Received: September 12, 2013 12:45
Tracking No: 1Z8942500397204668 via UPS
Coolant Type: None
Temperature: ambient

Description: Cardboard Box
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes



Golder Associates CHAIN OF CUSTODY

1310283

Page 1 of 1
Quotation No. Invoice Lehigh

PROJECT NO.: 063-7109-914		SITE NAME: Quarterly Lehigh STG permit		ANALYSES		<input checked="" type="checkbox"/> EDD required? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> EDF required? Yes <input type="checkbox"/> No	
SAMPLER(S): David Walter, Ian Sharkey, David C. Walte (printed) (signature)		CONTRACT LABORATORY: Alpha		TDS, Chloride O&G CTR PPI3 1600 Series Mercury 1631 C76 Tot S&T Mat Address			
TURN-AROUND TIME: Standard		Matrix		Type/Vol.		Cont. Qty.	
Sample I.D.	Lab I.D.	Collection Date	Time	Depth	Filter	Preserv.	Remarks
Pond 9 Eff n-002	9-4-13	1210	W				Include J-Flags
Pond 9 4P R-001B		1220					6
Pond 9 DM R-002B		1230					4
Pond 13 Eff n-003		1350					4
Downstream		1545					6
Duplicate		1600					6
Field Blank		1545					2
Relinquished by: (signature) David C. Walte		Received by: (signature) [Signature]		Date/Time: 9-4-13		SEND RESULTS TO:	
Relinquished by: (signature) [Signature]		Received by: (signature) [Signature]		Date/Time: 9-4-13		Attn: Georg Wegmann, Chew Kipi	
Relinquished by: (signature) [Signature]		Received by: (signature) [Signature]		Date/Time: 9-4-13		Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	



Alpha

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e-mail: clientservices@alpha-labs.com

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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

19 September 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 1310395

Enclosed are the results of analyses for samples received by the laboratory on 09/05/13 22:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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CHEMICAL EXAMINATION REPORT

Page 1 of 4

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

Report Date: 09/19/13 10:49
Project No: Quarterly Composite
Project ID: Lehigh S & G Permit

Order Number
1310395

Receipt Date/Time
09/05/2013 22:05

Client Code
SEL HANSONCUP

Client PO/Reference
063-7109-914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Composite	1310395-01	Water	09/05/13 13:00	09/05/13 22:05
Pond 13 Composite	1310395-02	Water	09/05/13 14:00	09/05/13 22:05

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

9/19/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 4

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

Report Date: 09/19/13 10:49
Project No: Quarterly Composite
Project ID: Lehigh S & G Permit

Order Number 1310395 Receipt Date/Time 09/05/2013 22:05 Client Code SEL HANSONCUP Client PO/Reference 063-7109-914

Alpha Analytical Laboratories, Inc.

Table with columns: METHOD, BATCH, PREPARED, ANALYZED, DILUTION, RESULT, PQL, NOTE. Contains data for Pond 9 Composite and Pond 13 Composite.

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 I. Gove (Signature)

Bruce Gove
Laboratory Director

9/19/2013



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CHEMICAL EXAMINATION REPORT

Page 3 of 4

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

Report Date: 09/19/13 10:49
Project No: Quarterly Composite
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310395	09/05/2013 22:05	SEL HANSONCUP	063-7109-914

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
Batch AI30924 - General Preparation										
Blank (AI30924-BLK1)				Prepared: 09/09/13 Analyzed: 09/10/13						
Total Suspended Solids	ND	0.50	mg/l							
Duplicate (AI30924-DUP1)				Source: 1310418-01 Prepared: 09/09/13 Analyzed: 09/10/13						
Total Suspended Solids	480	0.50	mg/l		520			8.00	30	
Duplicate (AI30924-DUP2)				Source: 1310452-01 Prepared: 09/09/13 Analyzed: 09/10/13						
Total Suspended Solids	1910	0.50	mg/l		1800			6.06	30	

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Bruce Gove
Laboratory Director

9/19/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 4

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

Report Date: 09/19/13 10:49
Project No: Quarterly Composite
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310395	09/05/2013 22:05	SEL HANSONCUP	063-7109-914

Notes and Definitions

- 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

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

9/19/2013



alpha

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ELAP Certificate Numbers 1551 and 2728

20 September 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 1310631

Enclosed are the results of analyses for samples received by the laboratory on 09/10/13 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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CHEMICAL EXAMINATION REPORT

Page 1 of 7

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

Report Date: 09/20/13 16:18
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310631	09/10/2013 21:45	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF M-002	1310631-01	Water	09/10/13 11:30	09/10/13 21:45
Pond 9 UP R-001B	1310631-02	Water	09/10/13 11:40	09/10/13 21:45
Pond 9 DN R-002B	1310631-03	Water	09/10/13 11:45	09/10/13 21:45
Pond 13B EFF M-003	1310631-04	Water	09/10/13 12:00	09/10/13 21:45
Pond 17 EFF M-004	1310631-05	Water	09/10/13 11:00	09/10/13 21:45
Pond 17 DN R-002D	1310631-06	Water	09/10/13 11:10	09/10/13 21:45

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Bruce Gove
Laboratory Director

9/20/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 7

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

Report Date: 09/20/13 16:18
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310631	09/10/2013 21:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 9 EFF M-002 (1310631-01)			Sample Type: Water			Sampled: 09/10/13 11:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AI31303	09/13/13 09:30	09/18/13 15:00	1	1200 mg/l	10	
Total Settleable Solids	SM2540F	AI31310	09/11/13 13:00	09/11/13 17:00	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AI31322	09/13/13 12:24	09/13/13 20:41	25	16 mg/l	12	
Pond 9 UP R-001B (1310631-02)			Sample Type: Water			Sampled: 09/10/13 11:40		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AI31303	09/13/13 09:30	09/18/13 15:00	1	1500 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AI31322	09/13/13 12:24	09/13/13 20:56	25	24 mg/l	12	
Pond 9 DN R-002B (1310631-03)			Sample Type: Water			Sampled: 09/10/13 11:45		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AI31303	09/13/13 09:30	09/18/13 15:00	1	1300 mg/l	10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AI31322	09/13/13 12:24	09/13/13 21:11	25	17 mg/l	12	
Pond 13B EFF M-003 (1310631-04)			Sample Type: Water			Sampled: 09/10/13 12:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AI31303	09/13/13 09:30	09/18/13 15:00	1	1400 mg/l	10	
Total Suspended Solids	SM2540D	AI31315	09/13/13 09:45	09/16/13 12:06	"	25 "	0.50	
Total Settleable Solids	SM2540F	AI31310	09/11/13 13:00	09/11/13 17:00	"	0.22 ml/l	0.10	

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Bruce Gove
Laboratory Director

9/20/2013



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CHEMICAL EXAMINATION REPORT

Page 3 of 7

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

Report Date: 09/20/13 16:18
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310631	09/10/2013 21:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 13B EFF M-003 (1310631-04)			Sample Type: Water			Sampled: 09/10/13 12:00		
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AI31322	09/13/13 12:24	09/13/13 21:26	25	16 mg/l	12	
Pond 17 EFF M-004 (1310631-05)			Sample Type: Water			Sampled: 09/10/13 11:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AI31303	09/13/13 09:30	09/18/13 15:00	1	2100 mg/l	10	
Total Settleable Solids	SM2540F	AI31310	09/11/13 13:00	09/11/13 17:00	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AI31322	09/13/13 12:24	09/13/13 21:41	25	29 mg/l	12	
Pond 17 DN R-002D (1310631-06)			Sample Type: Water			Sampled: 09/10/13 11:10		
Metals by EPA 200 Series Methods								
Calcium	EPA 200.7	AI31323	09/16/13 09:55	09/18/13 19:43	1	370 mg/l	1.0	
Magnesium	"	"	"	"	"	42 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AI31303	09/13/13 09:30	09/18/13 15:00	1	2000 mg/l	10	
Hardness, Total	SM2340B	AI31323	09/16/13 09:55	09/18/13 19:43	"	1090 "	5	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AI31322	09/13/13 12:24	09/13/13 21:56	50	100 mg/l	25	

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Bruce Gove
Laboratory Director

9/20/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 7

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

Report Date: 09/20/13 16:18
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
1310631	09/10/2013 21:45	SEL HANSONCUP	

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 AI31323 - Metals Digest										
Blank (AI31323-BLK1)				Prepared: 09/13/13 Analyzed: 09/16/13						
Calcium	ND	1.0	mg/l							
Magnesium	ND	1.0	"							
LCS (AI31323-BS1)				Prepared: 09/13/13 Analyzed: 09/16/13						
Calcium	5.10	1.0	mg/l	6.00		85.0	85-115			
Magnesium	7.48	1.0	"	8.00		93.5	85-115			
Duplicate (AI31323-DUP1)				Source: 1310887-02		Prepared: 09/13/13 Analyzed: 09/16/13				
Calcium	6.81	1.0	mg/l		6.96			2.23	20	
Magnesium	0.340	1.0	"		ND				20	
Matrix Spike (AI31323-MS1)				Source: 1310887-02		Prepared: 09/13/13 Analyzed: 09/16/13				
Calcium	12.3	1.0	mg/l	6.00	6.96	89.2	70-130			
Magnesium	7.32	1.0	"	8.00	ND	87.6	70-130			
Matrix Spike (AI31323-MS2)				Source: 1310808-02		Prepared: 09/13/13 Analyzed: 09/16/13				
Calcium	80.2	1.0	mg/l	6.00	76.7	58.6	70-130			QM-4X
Magnesium	63.5	1.0	"	8.00	56.2	90.7	70-130			
Matrix Spike Dup (AI31323-MSD1)				Source: 1310887-02		Prepared: 09/13/13 Analyzed: 09/16/13				
Calcium	12.4	1.0	mg/l	6.00	6.96	90.3	70-130	0.536	20	
Magnesium	7.01	1.0	"	8.00	ND	83.7	70-130	4.37	20	

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Bruce Gove
Laboratory Director

9/20/2013



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CHEMICAL EXAMINATION REPORT

Page 5 of 7

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

Report Date: 09/20/13 16:18
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

Order Number Receipt Date/Time Client Code Client PO/Reference
1310631 09/10/2013 21:45 SEL HANSONCUP

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
Batch AI31303 - General Preparation										
Blank (AI31303-BLK1)				Prepared: 09/13/13 Analyzed: 09/18/13						
Total Dissolved Solids	ND	10	mg/l							
Duplicate (AI31303-DUP1)				Source: 1310622-01 Prepared: 09/13/13 Analyzed: 09/18/13						
Total Dissolved Solids	386	10	mg/l		392			1.54	30	
Duplicate (AI31303-DUP2)				Source: 1310631-01 Prepared: 09/13/13 Analyzed: 09/18/13						
Total Dissolved Solids	1150	10	mg/l		1190			3.42	30	
Batch AI31315 - General Preparation										
Blank (AI31315-BLK1)				Prepared: 09/13/13 Analyzed: 09/16/13						
Total Suspended Solids	ND	0.50	mg/l							
Duplicate (AI31315-DUP1)				Source: 1310659-04 Prepared: 09/13/13 Analyzed: 09/16/13						
Total Suspended Solids	272	0.50	mg/l		308			12.4	30	
Duplicate (AI31315-DUP2)				Source: 1310793-01 Prepared: 09/13/13 Analyzed: 09/16/13						
Total Suspended Solids	204	0.50	mg/l		216			5.71	30	
Batch AI31323 - Metals Digest										
Blank (AI31323-BLK1)				Prepared: 09/13/13 Analyzed: 09/16/13						
Hardness, Total	ND	5	mg/l							
Duplicate (AI31323-DUP1)				Source: 1310887-02 Prepared: 09/13/13 Analyzed: 09/16/13						
Hardness, Total	18	5	mg/l		19			1.46	20	

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Bruce Gove
Laboratory Director

9/20/2013



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CHEMICAL EXAMINATION REPORT

Page 6 of 7

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

Report Date: 09/20/13 16:18
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310631	09/10/2013 21:45	SEL HANSONCUP	

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AI31322 - General Preparation										
Blank (AI31322-BLK1) Prepared & Analyzed: 09/13/13										
Chloride	ND	0.50	mg/l							
LCS (AI31322-BS1) Prepared & Analyzed: 09/13/13										
Chloride	11.0	0.50	mg/l	11.1		98.7	90-110			
Duplicate (AI31322-DUP1) Source: 1310875-01 Prepared & Analyzed: 09/13/13										
Chloride	3.84	0.50	mg/l		3.84			0.0261	20	
Matrix Spike (AI31322-MS1) Source: 1310875-01 Prepared & Analyzed: 09/13/13										
Chloride	14.7	1.0	mg/l	11.1	3.84	97.9	80-120			
Matrix Spike (AI31322-MS2) Source: 1310891-04 Prepared & Analyzed: 09/13/13										
Chloride	24.3	2.5	mg/l	11.1	14.0	93.3	80-120			
Matrix Spike Dup (AI31322-MSD1) Source: 1310875-01 Prepared & Analyzed: 09/13/13										
Chloride	14.6	1.0	mg/l	11.1	3.84	97.2	80-120	0.484	20	

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Bruce Gove
Laboratory Director

9/20/2013



alpha

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CHEMICAL EXAMINATION REPORT

Page 7 of 7

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PO Box 660140 / Attention SSC AP - CEMENT
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Attn: Chow Yip

Report Date: 09/20/13 16:18
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310631	09/10/2013 21:45	SEL HANSONCUP	

Notes and Definitions

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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

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

9/20/2013



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. Invoice Lehigh

PROJECT NO.: 063-7109-914		SITE NAME: weekly Lehigh STG Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): David Walter <small>(printed)</small>		David C. Walt <small>(signature)</small>		SS, TOS, Chloride TOS, Chloride			
CONTRACT LABORATORY: Alpha		Container Info					
TURN-AROUND TIME: standard		Type/Vol.					
Sample I.D.	Lab I.D.	Collection		Depth	Matrix	Filter	Preserv.
		Date	Time				
Pond 9 Eff M-002		9-10-13	1130	W			
Pond 94P R-001B			1140				
Pond 9DN R-002B			1145				
Pond 13B Eff M-003			1200				
Pond 17 Eff M-004			1100				
Pond 17DN R-002D			1110				
						Cont. Qty.	
						Remarks	
						Include TFlags	

SEND RESULTS TO:
 Attn: **George Wegmann, Greg Knapp, Chow Tip**
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224

Date/Time: 9-10-13 3:50 PM
 Date/Time: 9-10-13 18:55
 Date/Time: 9-10-13 21:41

Received by: (signature) **David C. Walt**
 Received by: (signature) **George Wegmann**
 Received by: (signature) **Greg Knapp**

Relinquished by: (signature) **David C. Walt**
 Relinquished by: (signature) **David C. Walt**
 Relinquished by: (signature) **David C. Walt**



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

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

ELAP Certificate Numbers 1551 and 2728

26 September 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 1310782

Enclosed are the results of analyses for samples received by the laboratory on 09/11/13 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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e-mail: clientservices@alpha-labs.com

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CHEMICAL EXAMINATION REPORT

Page 1 of 5

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

Report Date: 09/26/13 08:46
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310782	09/11/2013 21:45	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Comp	1310782-01	Water	09/11/13 10:30	09/11/13 21:45
Pond 4A EFF M-001	1310782-02	Water	09/11/13 10:30	09/11/13 21:45
Pond 9 Comp	1310782-03	Water	09/11/13 09:40	09/11/13 21:45
Pond 17 Comp	1310782-04	Water	09/11/13 10:00	09/11/13 21:45

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Bruce Gove
Laboratory Director

9/26/2013



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CHEMICAL EXAMINATION REPORT

Page 2 of 5

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

Report Date: 09/26/13 08:46
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310782	09/11/2013 21:45	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4A Comp (1310782-01)			Sample Type: Water			Sampled: 09/11/13 10:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AI31628	09/16/13 11:09	09/17/13 16:56	1	ND mg/l	0.50	
Pond 4A EFF M-001 (1310782-02)			Sample Type: Water			Sampled: 09/11/13 10:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Dissolved Solids	SM2540C	AI31621	09/16/13 10:30	09/18/13 08:30	1	920 mg/l	10	
Total Settleable Solids	SM2540F	AI31314	09/12/13 15:00	09/12/13 17:00	"	ND ml/l	0.10	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AI31827	09/18/13 09:46	09/18/13 11:09	10	49 mg/l	5.0	
Pond 9 Comp (1310782-03)			Sample Type: Water			Sampled: 09/11/13 09:40		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AI31628	09/16/13 11:09	09/17/13 16:56	1	41 mg/l	0.50	
Pond 17 Comp (1310782-04)			Sample Type: Water			Sampled: 09/11/13 10:00		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AI31628	09/16/13 11:09	09/17/13 16:56	1	ND mg/l	0.50	

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Bruce Gove
Laboratory Director

9/26/2013



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CHEMICAL EXAMINATION REPORT

Page 3 of 5

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

Report Date: 09/26/13 08:46
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310782	09/11/2013 21:45	SEL HANSONCUP	

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
Batch AI31621 - General Preparation										
Blank (AI31621-BLK1)				Prepared: 09/16/13 Analyzed: 09/18/13						
Total Dissolved Solids	ND	10	mg/l							
Duplicate (AI31621-DUP1)				Source: 1310664-03 Prepared: 09/16/13 Analyzed: 09/18/13						
Total Dissolved Solids	976	10	mg/l		1020			4.02	30	
Duplicate (AI31621-DUP2)				Source: 1310752-01 Prepared: 09/16/13 Analyzed: 09/18/13						
Total Dissolved Solids	175	10	mg/l		173			1.15	30	
Batch AI31628 - General Preparation										
Blank (AI31628-BLK1)				Prepared: 09/16/13 Analyzed: 09/17/13						
Total Suspended Solids	ND	0.50	mg/l							
Duplicate (AI31628-DUP1)				Source: 1310889-04 Prepared: 09/16/13 Analyzed: 09/17/13						
Total Suspended Solids	560	0.50	mg/l		560			0.00	30	

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Bruce Gove
Laboratory Director

9/26/2013



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CHEMICAL EXAMINATION REPORT

Page 4 of 5

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

Report Date: 09/26/13 08:46
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310782	09/11/2013 21:45	SEL HANSONCUP	

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AI31827 - General Preparation										
Blank (AI31827-BLK1)				Prepared & Analyzed: 09/18/13						
Chloride	ND	0.50	mg/l							
LCS (AI31827-BS1)				Prepared & Analyzed: 09/18/13						
Chloride	11.0	0.50	mg/l	11.1		98.6	90-110			
Duplicate (AI31827-DUP1)				Source: 1311077-05 Prepared & Analyzed: 09/18/13						
Chloride	6.11	0.50	mg/l		6.15			0.702	20	
Matrix Spike (AI31827-MS1)				Source: 1311077-05 Prepared & Analyzed: 09/18/13						
Chloride	17.2	1.0	mg/l	11.1	6.15	99.8	80-120			
Matrix Spike (AI31827-MS2)				Source: 1311117-05 Prepared & Analyzed: 09/18/13						
Chloride	51.6	2.5	mg/l	11.1	40.6	98.9	80-120			
Matrix Spike Dup (AI31827-MSD1)				Source: 1311077-05 Prepared & Analyzed: 09/18/13						
Chloride	17.2	1.0	mg/l	11.1	6.15	99.7	80-120	0.0516	20	

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Bruce Gove
Laboratory Director

9/26/2013



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CHEMICAL EXAMINATION REPORT

Page 5 of 5

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

Report Date: 09/26/13 08:46
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
1310782	09/11/2013 21:45	SEL HANSONCUP	

Notes and Definitions

- 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

9/26/2013



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. 13I0782
Invoices below

PROJECT NO.:		SITE NAME: (Composite)		ANALYSES		EDD required?	
063-7109-914		Lehigh St6 permit		TSS (Comp) SS, TDS, Chloride		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): David Walter (printed)		David C. Kallert (signature)				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CONTRACT LABORATORY:		Alpha Standard					
TURN-AROUND TIME:							
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter Preserv.
		Date	Time				
Pond 4A Comp		9-11-13	1030	W		1L	1L
Pond 4A Eff M-001			1030			1L	1L
Pond 9 Comp			0940			1L	1L
Pond 17 Comp			1000			1L	1L
						Remarks <u>Include J flags</u>	
Relinquished by (signature) David C. Kallert		Received by (signature) B. Luzzi		Date/Time 9-11-13 1554		SEND RESULTS TO: Attn: George Wegmann, Greg Knapp, Chow Kip Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Relinquished by (signature) B. Luzzi		Received by (signature) AAR R. Luzzi		Date/Time 9-11-13 1855			



Alpha

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ELAP Certificate Numbers 1551 and 2728

26 September 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13I0928

Enclosed are the results of analyses for samples received by the laboratory on 09/14/13 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/26/13 14:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 17 M-004	1310928-01	Water	09/13/13 14:00	09/14/13 14:15
Pond 17 DN R-002D	1310928-02	Water	09/13/13 14:10	09/14/13 14:15
Field Blank	1310928-03	Water	09/13/13 14:15	09/14/13 14:15

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/26/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/26/13 14:13

Metals by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 17 M-004 (1310928-01) Water Sampled: 09/13/13 14:00 Received: 09/14/13 14:15											
Mercury	10.8	0.200	0.500		ng/l	1	AI31732	09/17/13 18:30	09/18/13 14:12	EPA 1631E	
Pond 17 DN R-002D (1310928-02) Water Sampled: 09/13/13 14:10 Received: 09/14/13 14:15											
Mercury	3.45	0.200	0.500		ng/l	1	AI31732	09/17/13 18:30	09/18/13 14:35	EPA 1631E	
Field Blank (1310928-03) Water Sampled: 09/13/13 14:15 Received: 09/14/13 14:15											
Mercury	ND	0.200	0.500		ng/l	1	AI31732	09/17/13 18:30	09/18/13 14:43	EPA 1631E	U

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/26/2013

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/26/13 14:13

**Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 17 M-004 (1310928-01) Water Sampled: 09/13/13 14:00 Received: 09/14/13 14:15											
Oil & Grease (HEM)	1.2	0.80	1.4		mg/l	1	AI31721	09/18/13 08:00	09/20/13 15:30	EPA 1664	J

Alpha Analytical Laboratories, Inc.

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 L. Gove
Laboratory Director

9/26/2013



Alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/26/13 14:13

Metals by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI31732 - EPA 1631											
Blank (AI31732-BLK1)											
						Prepared: 09/17/13 Analyzed: 09/18/13					
Mercury	ND	0.200	0.500	ng/l							U
Mercury	ND	0.200	0.500	"							U
LCS (AI31732-BS1)											
						Prepared: 09/17/13 Analyzed: 09/18/13					
Mercury	5.16	0.200	0.500	ng/l	5.00		103	77-123			
Matrix Spike (AI31732-MS1)											
						Source: 1310899-07 Prepared: 09/17/13 Analyzed: 09/18/13					
Mercury	27.5	0.200	0.500	ng/l	25.0	1.71	103	71-125			
Matrix Spike (AI31732-MS2)											
						Source: 1310928-01 Prepared: 09/17/13 Analyzed: 09/18/13					
Mercury	36.8	0.200	0.500	ng/l	25.0	10.8	104	71-125			
Matrix Spike Dup (AI31732-MSD1)											
						Source: 1310899-07 Prepared: 09/17/13 Analyzed: 09/18/13					
Mercury	28.2	0.200	0.500	ng/l	25.0	1.71	106	71-125	2.51	24	
Matrix Spike Dup (AI31732-MSD2)											
						Source: 1310928-01 Prepared: 09/17/13 Analyzed: 09/18/13					
Mercury	37.3	0.200	0.500	ng/l	25.0	10.8	106	71-125	1.35	24	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/26/2013

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/26/13 14:13

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AI31721 - General Preparation

Blank (AI31721-BLK1)

Prepared: 09/18/13 Analyzed: 09/20/13

Oil & Grease (HEM) 1.60 0.80 1.4 mg/l

LCS (AI31721-BS1)

Prepared: 09/18/13 Analyzed: 09/20/13

Oil & Grease (HEM) 36.4 0.80 1.4 mg/l 40.0 91.0 78-114 18

LCS Dup (AI31721-BSD1)

Prepared: 09/18/13 Analyzed: 09/20/13

Oil & Grease (HEM) 35.6 0.80 1.4 mg/l 40.0 89.0 78-114 2.22 18

Matrix Spike (AI31721-MS1)

Source: 13I1122-02

Prepared: 09/18/13 Analyzed: 09/20/13

Oil & Grease (HEM) 19.1 0.80 1.4 mg/l 20.0 1.50 88.0 78-114 18

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove

Bruce L. Gove
Laboratory Director

9/26/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/26/13 14:13

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- U Analyte included in analysis, but not detected at or above MDL.
- 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

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/26/2013

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.

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1309407

Report Created for: Alpha Analytical Laboratories
208 Mason Street
Ukiah, CA 95482

Project Contact: Robert C. Phillips
Project P.O.:
Project Name: #13I0928

Project Received: 09/13/2013

Analytical Report reviewed & approved for release on 09/19/2013 by:

*Question about
your data?*

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Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: Alpha Analytical Laboratories

Project: #1310928

WorkOrder: 1309407

Glossary
Abbreviation

Description

95% Interval	95% Confident Interval
DF	Dilution Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RL	Reporting Limit
RPD	Relative Percent Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value

Quality Control
Qualifier

F1 MS/MSD recovery was out of acceptance criteria; LCS validated the prep batch.

Analytical Report

Client: Alpha Analytical Laboratories
Project: #13I0928
Date Received: 9/13/13 18:10
Date Prepared: 9/16/13-9/17/13

WorkOrder: 1309407
Extraction Method: E218.6
Analytical Method: E218.6
Unit: µg/L

Hexachrome by IC

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
Pond 17 M-004	1309407-001A	Water	09/13/2013 14:00	IC2	81753
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Hexachrome	0.41		0.20	1	09/17/2013 12:10

Pond 17 DN R-002D	1309407-002A	Water	09/13/2013 14:10	IC2	81753
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Hexachrome	0.39		0.20	1	09/16/2013 20:20

Quality Control Report

Client: Alpha Analytical Laboratories
Date Prepared: 9/16/13
Date Analyzed: 9/16/13
Instrument: IC2
Matrix: Water
Project: #1310928

WorkOrder: 1309407
BatchID: 81753
Extraction Method: E218.6
Analytical Method: E218.6
Unit: µg/L
Sample ID: MB/LCS-81753
 1309407-001AMS/MSD

QC SUMMARY REPORT FOR E218.6

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Hexachrome	ND	25.58	0.20	25	-	102	90-110

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Hexachrome	22.96	22.46	25	0.41	90.2	88.2,F1	90-110	2.20	10

October 17, 2013

Alpha Analytical Laboratories Inc.
ATTN: Robbie Phillips
208 Mason St.
Ukiah, CA 95482
robbie@alpha-labs.com

RE: Project AAL-DB1301

Client Project: 13I0928

Dear Mr. Phillips,

On September 19, 2013, Brooks Rand Labs (BRL) received three (3) water samples. The samples were logged-in for the contracted analyses of silver (Ag), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), nickel (Ni), lead (Pb), antimony (Sb), selenium (Se), thallium (Tl), and zinc (Zn) according to the chain-of-custody (COC) forms. The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were blank-corrected as described in the calculations section of the relevant SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

In instances where a matrix spike/matrix spike duplicate (MS/MSD) set was spiked at a level less than the native sample, the recoveries are not considered valid indicators of data quality. However, these results are reported as a demonstration of precision. When the spiking levels were $\leq 25\%$ of the native sample concentrations, the recoveries were not reported (**NR**). No sample results were qualified on the basis of the MS or MSD recoveries.

The sample 13I0928-03 (1338027-03) was labeled as a field blank and had Cr, Cu, Pb, and Zn concentrations above the MRL. The results for the samples may demonstrate possible contamination through field sample collection techniques employed.

The Ag MS performed on sample 13I0928-01 (1338027-01) recovered low at 74%. The associated MSD recovered within acceptance criteria, but low, at 78%. The Ag result for sample 13I0928-01 (1338027-01) was qualified **N** for inaccuracy.

For Cr analysis, the average of the method blanks (BLKs) exceeded the limit; however, the standard deviation of the BLKs was very low (0.001 $\mu\text{g/L}$). As the BLKs were consistent, the method blank-correcting of sample results was appropriate and accounted for the observed contamination.

Aside from concentration qualifiers, all data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Lydia Greaves
Project Manager
lydia@brooksrnd.com

Tiffany Stilwater
Client Services Manager
tiffany@brooksrnd.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <<http://www.brooksrand.com/default.asp?contentID=586>>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
1310928-01	1338027-01	Water	Sample	09/13/2013	09/19/2013
1310928-02	1338027-02	Water	Sample	09/13/2013	09/19/2013
1310928-03	1338027-03	DIW	Field Blank	09/13/2013	09/19/2013

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ag	Water	EPA 1638	10/02/2013	10/07/2013	B131601	1300677
As	Water	EPA 1638 DRC	10/02/2013	10/08/2013	B131600	1300679
Be	Water	EPA 1638	10/02/2013	10/07/2013	B131601	1300677
Cd	Water	EPA 1638	10/02/2013	10/07/2013	B131601	1300677
Cr	Water	EPA 1638 DRC	10/02/2013	10/10/2013	B131602	1300689
Cu	Water	EPA 1638	10/02/2013	10/07/2013	B131601	1300677
Ni	Water	EPA 1638 DRC	10/02/2013	10/10/2013	B131602	1300689
Pb	Water	EPA 1638	10/02/2013	10/07/2013	B131601	1300677
Sb	Water	EPA 1638	10/02/2013	10/07/2013	B131601	1300677
Se	Water	EPA 1638 DRC	10/02/2013	10/08/2013	B131600	1300679
Tl	Water	EPA 1638	10/02/2013	10/07/2013	B131601	1300677
Zn	Water	EPA 1638	10/02/2013	10/07/2013	B131601	1300677



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
13I0928-01, Pond 17 M-004										
1338027-01	Ag	Water	T	0.005	N, U	0.005	0.021	µg/L	B131601	1300677
1338027-01	As	Water	T	0.478		0.006	0.026	µg/L	B131600	1300679
1338027-01	Be	Water	T	0.053	U	0.053	0.158	µg/L	B131601	1300677
1338027-01	Cd	Water	T	0.285		0.007	0.021	µg/L	B131601	1300677
1338027-01	Cr	Water	T	0.425		0.047	0.158	µg/L	B131602	1300689
1338027-01	Cu	Water	T	2.48		0.042	0.126	µg/L	B131601	1300677
1338027-01	Ni	Water	T	8.36		0.247	1.05	µg/L	B131602	1300689
1338027-01	Pb	Water	T	0.029		0.006	0.026	µg/L	B131601	1300677
1338027-01	Sb	Water	T	2.10		0.011	0.042	µg/L	B131601	1300677
1338027-01	Se	Water	T	19.0		0.024	0.072	µg/L	B131600	1300679
1338027-01	Tl	Water	T	0.157		0.003	0.011	µg/L	B131601	1300677
1338027-01	Zn	Water	T	8.94		0.06	0.21	µg/L	B131601	1300677
13I0928-02, Pond 17 DN R-002D										
1338027-02	Ag	Water	T	0.012	B	0.005	0.021	µg/L	B131601	1300677
1338027-02	As	Water	T	0.352		0.006	0.026	µg/L	B131600	1300679
1338027-02	Be	Water	T	0.057	B	0.053	0.158	µg/L	B131601	1300677
1338027-02	Cd	Water	T	0.205		0.007	0.021	µg/L	B131601	1300677
1338027-02	Cr	Water	T	0.148	B	0.047	0.158	µg/L	B131602	1300689
1338027-02	Cu	Water	T	1.30		0.042	0.126	µg/L	B131601	1300677
1338027-02	Ni	Water	T	6.26		0.247	1.05	µg/L	B131602	1300689
1338027-02	Pb	Water	T	0.043		0.006	0.026	µg/L	B131601	1300677
1338027-02	Sb	Water	T	0.760		0.011	0.042	µg/L	B131601	1300677
1338027-02	Se	Water	T	5.70		0.024	0.072	µg/L	B131600	1300679
1338027-02	Tl	Water	T	0.077		0.003	0.011	µg/L	B131601	1300677
1338027-02	Zn	Water	T	7.50		0.06	0.21	µg/L	B131601	1300677
13I0928-03, Field Blank										
1338027-03	Ag	DIW	T	0.005	U	0.005	0.021	µg/L	B131601	1300677
1338027-03	As	DIW	T	0.006	U	0.006	0.026	µg/L	B131600	1300679
1338027-03	Be	DIW	T	0.053	U	0.053	0.158	µg/L	B131601	1300677
1338027-03	Cd	DIW	T	0.007	U	0.007	0.021	µg/L	B131601	1300677
1338027-03	Cr	DIW	T	0.104		0.009	0.032	µg/L	B131602	1300689
1338027-03	Cu	DIW	T	0.673		0.042	0.126	µg/L	B131601	1300677
1338027-03	Ni	DIW	T	0.072	B	0.049	0.211	µg/L	B131602	1300689
1338027-03	Pb	DIW	T	0.352		0.006	0.026	µg/L	B131601	1300677
1338027-03	Sb	DIW	T	0.014	B	0.011	0.042	µg/L	B131601	1300677
1338027-03	Se	DIW	T	0.024	U	0.024	0.072	µg/L	B131600	1300679
1338027-03	Tl	DIW	T	0.003	U	0.003	0.011	µg/L	B131601	1300677
1338027-03	Zn	DIW	T	2.07		0.06	0.21	µg/L	B131601	1300677



Accuracy & Precision Summary

Batch: B131600
Lab Matrix: Water
Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131600-BS1	Laboratory Fortified Blank (1337045)						
	As		5.263	5.028	µg/L	96% 75-125	
	Se		6.316	5.315	µg/L	84% 75-125	
B131600-SRM1	Certified Reference Material (1245010, NIST 1643e (for batch QC))						
	As		60.45	61.88	µg/L	102% 75-125	
	Se		11.97	12.66	µg/L	106% 75-125	
B131600-DUP1	Duplicate (1338027-01)						
	As	0.478		0.543	µg/L		13% 20
	Se	18.95		19.37	µg/L		2% 20
B131600-MS1	Matrix Spike (1338027-01)						
	As	0.478	5.263	5.572	µg/L	97% 75-125	
	Se	18.95	5.263	22.92	µg/L	75% 75-125	
B131600-MSD1	Matrix Spike Duplicate (1338027-01)						
	As	0.478	5.263	5.603	µg/L	97% 75-125	0.5% 20
	Se	18.95	5.263	22.61	µg/L	69% 75-125	1% 20



Accuracy & Precision Summary

Batch: B131601
 Lab Matrix: Water
 Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131601-BS1	Laboratory Fortified Blank (1337045)						
	Ag		0.4211	0.438	µg/L	104% 75-125	
	Be		3.158	2.926	µg/L	93% 75-125	
	Cd		0.2105	0.191	µg/L	90% 75-125	
	Cu		2.105	2.094	µg/L	99% 75-125	
	Pb		0.5263	0.566	µg/L	108% 75-125	
	Sb		0.4211	0.388	µg/L	92% 75-125	
	Tl		0.2105	0.230	µg/L	109% 75-125	
Zn		4.211	3.62	µg/L	86% 75-125		
B131601-SRM1	Certified Reference Material (1245010, NIST 1643e (for batch QC))						
	Ag		1.062	0.883	µg/L	83% 75-125	
	Be		13.98	13.79	µg/L	99% 75-125	
	Cd		6.568	6.773	µg/L	103% 75-125	
	Cu		22.76	22.63	µg/L	99% 75-125	
	Pb		19.63	19.86	µg/L	101% 75-125	
	Sb		58.30	64.05	µg/L	110% 75-125	
	Tl		7.445	7.691	µg/L	103% 75-125	
Zn		78.50	80.08	µg/L	102% 75-125		
B131601-DUP1	Duplicate (1338027-01)						
	Ag	ND		ND	µg/L		N/C 20
	Be	ND		ND	µg/L		N/C 20
	Cd	0.285		0.311	µg/L		9% 20
	Cu	2.476		2.427	µg/L		2% 20
	Pb	0.029		0.025	µg/L		15% 20
	Sb	2.102		2.083	µg/L		0.9% 20
	Tl	0.157		0.158	µg/L		0.7% 20
Zn	8.94		9.25	µg/L		3% 20	



Accuracy & Precision Summary

Batch: B131601
 Lab Matrix: Water
 Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131601-MS1	Matrix Spike (1338027-01)						
	Ag	ND	0.4211	0.310	µg/L	74% 75-125	
	Be	ND	0.2105	0.263	µg/L	125% 75-125	
	Cd	0.285	0.2105	0.513	µg/L	108% 75-125	
	Cu	2.476	2.105	4.330	µg/L	88% 75-125	
	Pb	0.029	0.5263	0.471	µg/L	84% 75-125	
	Sb	2.102	0.2105	2.311	µg/L	NR 75-125	
	Tl	0.157	0.1053	0.253	µg/L	91% 75-125	
Zn	8.94	10.53	17.42	µg/L	81% 75-125		
B131601-MSD1	Matrix Spike Duplicate (1338027-01)						
	Ag	ND	0.4211	0.328	µg/L	78% 75-125	5% 20
	Be	ND	0.2105	0.241	µg/L	115% 75-125	9% 20
	Cd	0.285	0.2105	0.517	µg/L	110% 75-125	0.8% 20
	Cu	2.476	2.105	4.353	µg/L	89% 75-125	0.5% 20
	Pb	0.029	0.5263	0.481	µg/L	86% 75-125	2% 20
	Sb	2.102	0.2105	2.327	µg/L	NR 75-125	0.7% 20
	Tl	0.157	0.1053	0.263	µg/L	101% 75-125	4% 20
Zn	8.94	10.53	17.55	µg/L	82% 75-125	0.7% 20	



Accuracy & Precision Summary

Batch: B131602
Lab Matrix: Water
Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131602-BS1	Laboratory Fortified Blank (1337045)						
	Cr		3.158	3.220	µg/L	102% 75-125	
	Ni		4.211	4.193	µg/L	100% 75-125	
B131602-SRM1	Certified Reference Material (1245010, NIST 1643e (for batch QC))						
	Cr		20.40	20.12	µg/L	99% 75-125	
	Ni		62.41	56.71	µg/L	91% 75-125	
B131602-DUP1	Duplicate (1338027-01)						
	Cr	0.425		0.449	µg/L		6% 20
	Ni	8.359		8.209	µg/L		2% 20
B131602-MS1	Matrix Spike (1338027-01)						
	Cr	0.425	5.263	6.547	µg/L	116% 75-125	
	Ni	8.359	5.263	13.39	µg/L	96% 75-125	
B131602-MSD1	Matrix Spike Duplicate (1338027-01)						
	Cr	0.425	5.263	5.450	µg/L	95% 75-125	18% 20
	Ni	8.359	5.263	12.64	µg/L	81% 75-125	6% 20



Method Blanks & Reporting Limits

Batch: B131600
Matrix: Water
Method: EPA 1638 DRC
Analyte: As 91

Sample	Result	Units		
B131600-BLK1	-0.009	µg/L		
B131600-BLK2	-0.009	µg/L		
B131600-BLK3	-0.006	µg/L		
B131600-BLK4	-0.009	µg/L		
Average:	-0.008		Standard Deviation:	0.002
Limit:	0.026		Limit:	0.006
				MDL: 0.006
				MRL: 0.026

Analyte: Se 78

Sample	Result	Units		
B131600-BLK1	-0.024	µg/L		
B131600-BLK2	-0.013	µg/L		
B131600-BLK3	-0.039	µg/L		
B131600-BLK4	-0.025	µg/L		
Average:	-0.025		Standard Deviation:	0.011
Limit:	0.072		Limit:	0.024
				MDL: 0.024
				MRL: 0.072



Method Blanks & Reporting Limits

Batch: B131601
Matrix: Water
Method: EPA 1638
Analyte: Ag 107

Sample	Result	Units		
B131601-BLK1	0.006	µg/L		
B131601-BLK2	0.002	µg/L		
B131601-BLK3	0.0003	µg/L		
B131601-BLK4	-0.0007	µg/L		
Average:	0.002		Standard Deviation:	0.003
Limit:	0.021		Limit:	0.005
				MDL: 0.005
				MRL: 0.021

Analyte: Be

Sample	Result	Units		
B131601-BLK1	-0.038	µg/L		
B131601-BLK2	-0.026	µg/L		
B131601-BLK3	-0.037	µg/L		
B131601-BLK4	-0.018	µg/L		
Average:	-0.030		Standard Deviation:	0.010
Limit:	0.158		Limit:	0.053
				MDL: 0.053
				MRL: 0.158

Analyte: Cd 114

Sample	Result	Units		
B131601-BLK1	-0.001	µg/L		
B131601-BLK2	-0.002	µg/L		
B131601-BLK3	-0.0005	µg/L		
B131601-BLK4	-0.0007	µg/L		
Average:	-0.001		Standard Deviation:	0.001
Limit:	0.021		Limit:	0.007
				MDL: 0.007
				MRL: 0.021



Method Blanks & Reporting Limits

Analyte: Cu 63

Sample	Result	Units		
B131601-BLK1	-0.005	µg/L		
B131601-BLK2	-0.005	µg/L		
B131601-BLK3	-0.004	µg/L		
B131601-BLK4	-0.002	µg/L		
Average:	-0.004		Standard Deviation:	0.001
Limit:	0.126		Limit:	0.042
				MDL: 0.042
				MRL: 0.126

Analyte: Pb

Sample	Result	Units		
B131601-BLK1	-0.003	µg/L		
B131601-BLK2	-0.002	µg/L		
B131601-BLK3	-0.002	µg/L		
B131601-BLK4	-0.002	µg/L		
Average:	-0.002		Standard Deviation:	0.000
Limit:	0.026		Limit:	0.006
				MDL: 0.006
				MRL: 0.026

Analyte: Sb

Sample	Result	Units		
B131601-BLK1	0.015	µg/L		
B131601-BLK2	0.006	µg/L		
B131601-BLK3	0.001	µg/L		
B131601-BLK4	0.001	µg/L		
Average:	0.006		Standard Deviation:	0.007
Limit:	0.042		Limit:	0.011
				MDL: 0.011
				MRL: 0.042

Analyte: Tl

Sample	Result	Units		
B131601-BLK1	-0.0007	µg/L		
B131601-BLK2	-0.0009	µg/L		
B131601-BLK3	-0.0009	µg/L		
B131601-BLK4	-0.0008	µg/L		
Average:	-0.001		Standard Deviation:	0.000
Limit:	0.011		Limit:	0.003
				MDL: 0.003
				MRL: 0.011



Method Blanks & Reporting Limits

Analyte: Zn 66

Sample	Result	Units		
B131601-BLK1	-0.10	µg/L		
B131601-BLK2	-0.10	µg/L		
B131601-BLK3	-0.10	µg/L		
B131601-BLK4	-0.11	µg/L		
Average:	-0.10		Standard Deviation:	0.01
Limit:	0.21		Limit:	0.06
			MDL:	0.06
			MRL:	0.21



Method Blanks & Reporting Limits

Batch: B131602
Matrix: Water
Method: EPA 1638 DRC
Analyte: Cr 52

Sample	Result	Units		
B131602-BLK1	0.038	µg/L		
B131602-BLK2	0.037	µg/L		
B131602-BLK3	0.038	µg/L		
B131602-BLK4	0.039	µg/L		
	Average: 0.038		Standard Deviation: 0.001	MDL: 0.009
	Limit: 0.032		Limit: 0.009	MRL: 0.032

Analyte: Ni 62

Sample	Result	Units		
B131602-BLK1	0.0004	µg/L		
B131602-BLK2	-0.007	µg/L		
B131602-BLK3	-0.002	µg/L		
B131602-BLK4	0.003	µg/L		
	Average: -0.001		Standard Deviation: 0.004	MDL: 0.049
	Limit: 0.211		Limit: 0.049	MRL: 0.211

Project ID: AAL-DB1301
PM: Lydia Greaves



BRL Report 1338027
Client PM: Robbie Phillips
Client PO: 130903RP-1

Sample Containers

Lab ID: 1338027-01 Sample: 1310928-01			Report Matrix: Water Sample Type: Sample		Collected: 09/13/2013 Received: 09/19/2013
Des Container A Client-Provided	Size 500mL	Lot	Preservation 0.1% HNO3 (BRL)	P-Lot 1331069	pH <2 Ship. Cont. Cooler
Lab ID: 1338027-02 Sample: 1310928-02			Report Matrix: Water Sample Type: Sample		Collected: 09/13/2013 Received: 09/19/2013
Des Container A Client-Provided	Size 500mL	Lot	Preservation 0.1% HNO3 (BRL)	P-Lot 1331069	pH <2 Ship. Cont. Cooler
Lab ID: 1338027-03 Sample: 1310928-03			Report Matrix: DIW Sample Type: Field Blank		Collected: 09/13/2013 Received: 09/19/2013
Des Container A Client-Provided	Size 500mL	Lot	Preservation 0.1% HNO3 (BRL)	P-Lot 1331069	pH <2 Ship. Cont. Cooler

Shipping Containers

Cooler

Received: September 19, 2013 9:00
Tracking No: 1Z8942500148653582 via UPS
Coolant Type: Ice
Temperature: 1.3 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes



Alpha

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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

30 September 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 1311201

Enclosed are the results of analyses for samples received by the laboratory on 09/18/13 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

09/30/13 13:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 M-002 EFF	1311201-01	Water	09/18/13 10:10	09/18/13 21:40
Pond 9UP R-001B	1311201-02	Water	09/18/13 10:20	09/18/13 21:40
Pond 9DN R-002B	1311201-03	Water	09/18/13 10:25	09/18/13 21:40
Pond 13 M-003 EFF	1311201-04	Water	09/18/13 09:20	09/18/13 21:40
Pond 17 M-004 EFF	1311201-05	Water	09/18/13 10:45	09/18/13 21:40
Pond 17DN R-002D	1311201-06	Water	09/18/13 10:55	09/18/13 21:40

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/30/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

09/30/13 13:55

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 M-002 EFF (13I1201-01) Water Sampled: 09/18/13 10:10 Received: 09/18/13 21:40											
Total Dissolved Solids	1200	5.0	10		mg/l	1	AI32007	09/20/13 09:00	09/23/13 13:15	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI32030	09/19/13 14:00	09/19/13 17:00	SM2540F	U
Pond 9UP R-001B (13I1201-02) Water Sampled: 09/18/13 10:20 Received: 09/18/13 21:40											
Total Dissolved Solids	1600	5.0	10		mg/l	1	AI32007	09/20/13 09:00	09/23/13 13:15	SM2540C	
Pond 9DN R-002B (13I1201-03) Water Sampled: 09/18/13 10:25 Received: 09/18/13 21:40											
Total Dissolved Solids	1300	5.0	10		mg/l	1	AI32007	09/20/13 09:00	09/23/13 13:15	SM2540C	
Pond 13 M-003 EFF (13I1201-04) Water Sampled: 09/18/13 09:20 Received: 09/18/13 21:40											
Total Dissolved Solids	1600	5.0	10		mg/l	1	AI32007	09/20/13 09:00	09/23/13 13:15	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI32030	09/19/13 14:00	09/19/13 17:00	SM2540F	U
Pond 17 M-004 EFF (13I1201-05) Water Sampled: 09/18/13 10:45 Received: 09/18/13 21:40											
Total Dissolved Solids	2000	5.0	10		mg/l	1	AI32007	09/20/13 09:00	09/23/13 13:15	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI32030	09/19/13 14:00	09/19/13 17:00	SM2540F	U
Pond 17DN R-002D (13I1201-06) Water Sampled: 09/18/13 10:55 Received: 09/18/13 21:40											
Total Dissolved Solids	1800	5.0	10		mg/l	1	AI32007	09/20/13 09:00	09/23/13 13:15	SM2540C	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/30/2013

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

09/30/13 13:55

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 M-002 EFF (13I1201-01) Water Sampled: 09/18/13 10:10 Received: 09/18/13 21:40											
Chloride	56	0.60	10		mg/l	20	AI32336	09/23/13 11:57	09/23/13 13:32	EPA 300.0	
Pond 9UP R-001B (13I1201-02) Water Sampled: 09/18/13 10:20 Received: 09/18/13 21:40											
Chloride	97	0.75	12		mg/l	25	AI32336	09/23/13 11:57	09/23/13 13:47	EPA 300.0	
Pond 9DN R-002B (13I1201-03) Water Sampled: 09/18/13 10:25 Received: 09/18/13 21:40											
Chloride	67	0.75	12		mg/l	25	AI32336	09/23/13 11:57	09/23/13 14:02	EPA 300.0	
Pond 13 M-003 EFF (13I1201-04) Water Sampled: 09/18/13 09:20 Received: 09/18/13 21:40											
Chloride	100	0.75	12		mg/l	25	AI32336	09/23/13 11:57	09/23/13 14:17	EPA 300.0	
Pond 17 M-004 EFF (13I1201-05) Water Sampled: 09/18/13 10:45 Received: 09/18/13 21:40											
Chloride	110	1.5	25		mg/l	50	AI32336	09/23/13 11:57	09/23/13 14:32	EPA 300.0	
Pond 17DN R-002D (13I1201-06) Water Sampled: 09/18/13 10:55 Received: 09/18/13 21:40											
Chloride	94	0.75	12		mg/l	25	AI32336	09/23/13 11:57	09/23/13 14:47	EPA 300.0	

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/30/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

09/30/13 13:55

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AI32007 - General Preparation

Blank (AI32007-BLK1)

Prepared: 09/20/13 Analyzed: 09/23/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
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Duplicate (AI32007-DUP1)

Source: 13I1173-05

Prepared: 09/20/13 Analyzed: 09/23/13

Total Dissolved Solids	636	5.0	10	mg/l		676			6.10	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AI32007-DUP2)

Source: 13I1211-03

Prepared: 09/20/13 Analyzed: 09/23/13

Total Dissolved Solids	253	5.0	10	mg/l		293			14.7	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/30/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

09/30/13 13:55

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AI32336 - General Preparation

Blank (AI32336-BLK1)

Prepared & Analyzed: 09/23/13

Chloride	ND	0.030	0.50	mg/l							U
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LCS (AI32336-BS1)

Prepared & Analyzed: 09/23/13

Chloride	11.4	0.030	0.50	mg/l	11.1		103	90-110			
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Duplicate (AI32336-DUP1)

Source: 13I1298-01

Prepared & Analyzed: 09/23/13

Chloride	6.69	0.030	0.50	mg/l		6.68			0.195	20	
----------	------	-------	------	------	--	------	--	--	-------	----	--

Matrix Spike (AI32336-MS1)

Source: 13I1298-01

Prepared & Analyzed: 09/23/13

Chloride	18.1	0.030	0.50	mg/l	11.1	6.68	103	80-120			
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Matrix Spike (AI32336-MS2)

Source: 13I1390-01

Prepared & Analyzed: 09/23/13

Chloride	14.4	0.060	1.0	mg/l	11.1	3.43	98.7	80-120			
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Matrix Spike Dup (AI32336-MSD1)

Source: 13I1298-01

Prepared & Analyzed: 09/23/13

Chloride	18.3	0.030	0.50	mg/l	11.1	6.68	105	80-120	1.37	20	
----------	------	-------	------	------	------	------	-----	--------	------	----	--

Alpha Analytical Laboratories, Inc.

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 L. Gove

Bruce L. Gove
Laboratory Director

9/30/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

09/30/13 13:55

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

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

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/30/2013

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.



Golder Associates CHAIN OF CUSTODY

13II1201

Page 1 of 1

Quotation No. Taxiice Lehigh

PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?					
063-7109-914		weekly Lehigh STG permit		<div style="border: 1px solid black; padding: 5px;"> SS, TDS, Chloride TDS, Chloride </div>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
SAMPLER(S): David Walter (printed) David C. Valt (signature)		CONTRACT LABORATORY: Alpha Standard				EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter	Preserv.	Container Info	Cont. Qty.	Remarks
		Date	Time								
Pond 9 m-002 EFF	R-001B	9-18-13	1010	W		1	N	N	N	1	
Pond 9 NP R-001B	R-002B		1020			1	N	N	N	1	
Pond 9 NM R-002B	R-003B		1025			1	N	N	N	1	
Pond 13B m-003 EFF	R-004B		0920			1	N	N	N	1	
Pond 17 m-004 EFF	R-005B		1045			1	N	N	N	1	
Pond 17 DM R-002D	R-006B		1055			1	N	N	N	1	

Relinquished by (signature): David C. Valt
 Relinquished by (signature): David C. Valt
 Relinquished by (signature): David C. Valt

Received by (signature): David C. Valt
 Received by (signature): David C. Valt
 Received by (signature): David C. Valt

Date/Time: 9-18-13 9 PM
 Date/Time: 9-18-13 1920
 Date/Time: 9-18-13 2140

SEND RESULTS TO:
 Attn: George Wegmann, Greg Knappi
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224



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ELAP Certificate Numbers 1551 and 2728

30 September 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13I1310

Enclosed are the results of analyses for samples received by the laboratory on 09/19/13 22:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/30/13 10:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	1311310-01	Water	09/19/13 12:50	09/19/13 22:15
Pond 9 Comp.	1311310-02	Water	09/19/13 13:45	09/19/13 22:15
Pond 13B Comp.	1311310-03	Water	09/19/13 13:20	09/19/13 22:15
Pond 17 Comp.	1311310-04	Water	09/19/13 14:15	09/19/13 22:15

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/30/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/30/13 10:09

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13I1310-01) Water Sampled: 09/19/13 12:50 Received: 09/19/13 22:15											
Total Dissolved Solids	840	5.0	10		mg/l	1	AI32319	09/23/13 09:45	09/24/13 15:45	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI32033	09/20/13 13:00	09/20/13 17:00	SM2540F	U
Pond 9 Comp. (13I1310-02) Water Sampled: 09/19/13 13:45 Received: 09/19/13 22:15											
Total Suspended Solids	120	0.30	0.50		mg/l	1	AI32433	09/24/13 10:31	09/26/13 12:52	SM2540D	
Pond 13B Comp. (13I1310-03) Water Sampled: 09/19/13 13:20 Received: 09/19/13 22:15											
Total Suspended Solids	1.4	0.30	0.50		mg/l	1	AI32433	09/24/13 10:31	09/26/13 12:52	SM2540D	
Pond 17 Comp. (13I1310-04) Water Sampled: 09/19/13 14:15 Received: 09/19/13 22:15											
Total Suspended Solids	ND	0.30	0.50		mg/l	1	AI32433	09/24/13 10:31	09/26/13 12:52	SM2540D	U

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

9/30/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/30/13 10:09

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13I1310-01) Water Sampled: 09/19/13 12:50 Received: 09/19/13 22:15											
Chloride	52	0.30	5.0		mg/l	10	AI32336	09/23/13 11:57	09/23/13 17:18	EPA 300.0	

Alpha Analytical Laboratories, Inc.

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 L. Gove
Laboratory Director

9/30/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/30/13 10:09

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AI32319 - General Preparation

Blank (AI32319-BLK1)

Prepared: 09/23/13 Analyzed: 09/24/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AI32319-DUP1)

Source: 13I1220-06

Prepared: 09/23/13 Analyzed: 09/24/13

Total Dissolved Solids	275	5.0	10	mg/l		275			0.00	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AI32319-DUP2)

Source: 13I1310-01

Prepared: 09/23/13 Analyzed: 09/24/13

Total Dissolved Solids	808	5.0	10	mg/l		840			3.88	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Batch AI32433 - General Preparation

Blank (AI32433-BLK1)

Prepared: 09/24/13 Analyzed: 09/26/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AI32433-DUP1)

Source: 13I1235-01

Prepared: 09/24/13 Analyzed: 09/26/13

Total Suspended Solids	133	0.30	0.50	mg/l		140			4.90	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AI32433-DUP2)

Source: 13I1309-01

Prepared: 09/24/13 Analyzed: 09/26/13

Total Suspended Solids	373	0.30	0.50	mg/l		418			11.5	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

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 L. Gove
Laboratory Director

9/30/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

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

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/30/13 10:09

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI32336 - General Preparation											
Blank (AI32336-BLK1)											
					Prepared & Analyzed: 09/23/13						
Chloride	ND	0.030	0.50	mg/l							U
LCS (AI32336-BS1)											
					Prepared & Analyzed: 09/23/13						
Chloride	11.4	0.030	0.50	mg/l	11.1		103	90-110			
Duplicate (AI32336-DUP1)											
					Source: 13I1298-01 Prepared & Analyzed: 09/23/13						
Chloride	6.69	0.030	0.50	mg/l		6.68			0.195	20	
Matrix Spike (AI32336-MS1)											
					Source: 13I1298-01 Prepared & Analyzed: 09/23/13						
Chloride	18.1	0.030	0.50	mg/l	11.1	6.68	103	80-120			
Matrix Spike (AI32336-MS2)											
					Source: 13I1390-01 Prepared & Analyzed: 09/23/13						
Chloride	14.4	0.060	1.0	mg/l	11.1	3.43	98.7	80-120			
Matrix Spike Dup (AI32336-MSD1)											
					Source: 13I1298-01 Prepared & Analyzed: 09/23/13						
Chloride	18.3	0.030	0.50	mg/l	11.1	6.68	105	80-120	1.37	20	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/30/2013

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

09/30/13 10:09

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

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

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

9/30/2013

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Golder Associates CHAIN OF CUSTODY

13II1310

Page 1 of 1
Quotation No. Inrise Lehigh

Temp # 18

PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?					
063-7109-914		Composite Lehigh StG permit				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
SAMPLER(S): David Wister (printed)		David C. Hault (signature)				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
CONTRACT LABORATORY:		Alpha									
TURN-AROUND TIME:		Standard									
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter	Preserv.	Cont. Qty.	Remarks	
		Date	Time								
Pond 4A EFF #1-001		9-11-13	1250	W		1					
Pond 9 Comp			1345			1					
Pond 13B Comp			1320			1					
Pond 17 Comp			1415			1				Include J-flags	
Relinquished by: (signature)		David C. Hault		Received by: (signature)		12/11/13		Date/Time:		SEND RESULTS TO:	
Relinquished by: (signature)		Sullivan		Received by: (signature)		Sullivan		Date/Time:		Attn: George Wegmann, Greg Knapp	
Relinquished by: (signature)		Sullivan		Received by: (signature)		Sullivan		Date/Time:		Chow Yip	
								Date/Time:		Golder Associates Inc.	
								Date/Time:		425 Lakeside Drive	
								Date/Time:		Sunnyvale, CA 94085	
								Date/Time:		Phone (408) 220-9223	
								Date/Time:		Fax (408) 220-9224	



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ELAP Certificate Numbers 1551 and 2728

08 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13I1610

Enclosed are the results of analyses for samples received by the laboratory on 09/25/13 22:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/08/13 09:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF M-002	1311610-01	Water	09/24/13 12:15	09/25/13 22:10
Pond 9 UP R-001B	1311610-02	Water	09/24/13 12:25	09/25/13 22:10
Pond 9 DN R-002B	1311610-03	Water	09/24/13 12:30	09/25/13 22:10
Pond 13B EFF M-003	1311610-04	Water	09/24/13 11:00	09/25/13 22:10
Pond 17 EFF M-004	1311610-05	Water	09/24/13 13:00	09/25/13 22:10
Pond 17 DN R-002D	1311610-06	Water	09/24/13 13:10	09/25/13 22:10

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

10/8/2013



Alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/08/13 09:23

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 EFF M-002 (13I1610-01) Water Sampled: 09/24/13 12:15 Received: 09/25/13 22:10											
Total Dissolved Solids	810	5.0	10		mg/l	1	AJ30123	10/01/13 09:30	10/03/13 09:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI32659	09/26/13 09:00	09/26/13 17:00	SM2540F	U
Pond 9 UP R-001B (13I1610-02) Water Sampled: 09/24/13 12:25 Received: 09/25/13 22:10											
Total Dissolved Solids	1500	5.0	10		mg/l	1	AJ30123	10/01/13 09:30	10/03/13 09:00	SM2540C	
Pond 9 DN R-002B (13I1610-03) Water Sampled: 09/24/13 12:30 Received: 09/25/13 22:10											
Total Dissolved Solids	1200	5.0	10		mg/l	1	AJ30123	10/01/13 09:30	10/03/13 09:00	SM2540C	
Pond 13B EFF M-003 (13I1610-04) Water Sampled: 09/24/13 11:00 Received: 09/25/13 22:10											
Total Dissolved Solids	1500	5.0	10		mg/l	1	AJ30123	10/01/13 09:30	10/03/13 09:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI32659	09/26/13 09:00	09/26/13 17:00	SM2540F	U
Pond 17 EFF M-004 (13I1610-05) Water Sampled: 09/24/13 13:00 Received: 09/25/13 22:10											
Total Dissolved Solids	2000	5.0	10		mg/l	1	AJ30123	10/01/13 09:30	10/03/13 09:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI32659	09/26/13 09:00	09/26/13 17:00	SM2540F	U
Pond 17 DN R-002D (13I1610-06) Water Sampled: 09/24/13 13:10 Received: 09/25/13 22:10											
Total Dissolved Solids	1700	5.0	10		mg/l	1	AJ30123	10/01/13 09:30	10/03/13 09:00	SM2540C	

Alpha Analytical Laboratories, Inc.

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 L. Gove
Laboratory Director

10/8/2013



Alpha

Alpha Analytical Laboratories Inc.

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/08/13 09:23

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 EFF M-002 (13I1610-01) Water Sampled: 09/24/13 12:15 Received: 09/25/13 22:10											
Chloride	58	0.30	5.0		mg/l	10	AI32721	09/27/13 15:53	09/27/13 19:11	EPA 300.0	
Pond 9 UP R-001B (13I1610-02) Water Sampled: 09/24/13 12:25 Received: 09/25/13 22:10											
Chloride	100	0.60	10		mg/l	20	AI32721	09/27/13 15:53	09/27/13 19:26	EPA 300.0	
Pond 9 DN R-002B (13I1610-03) Water Sampled: 09/24/13 12:30 Received: 09/25/13 22:10											
Chloride	68	0.30	5.0		mg/l	10	AI32721	09/27/13 15:53	09/27/13 19:41	EPA 300.0	
Pond 13B EFF M-003 (13I1610-04) Water Sampled: 09/24/13 11:00 Received: 09/25/13 22:10											
Chloride	71	0.30	5.0		mg/l	10	AI32721	09/27/13 15:53	09/27/13 19:56	EPA 300.0	
Pond 17 EFF M-004 (13I1610-05) Water Sampled: 09/24/13 13:00 Received: 09/25/13 22:10											
Chloride	110	0.30	5.0		mg/l	10	AI32721	09/27/13 15:53	09/27/13 20:11	EPA 300.0	
Pond 17 DN R-002D (13I1610-06) Water Sampled: 09/24/13 13:10 Received: 09/25/13 22:10											
Chloride	98	0.30	5.0		mg/l	10	AI32721	09/27/13 15:53	09/27/13 20:26	EPA 300.0	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/8/2013

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/08/13 09:23

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ30123 - General Preparation

Blank (AJ30123-BLK1)

Prepared: 10/01/13 Analyzed: 10/03/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AJ30123-DUP1)

Source: 13I1594-02

Prepared: 10/01/13 Analyzed: 10/03/13

Total Dissolved Solids	268	5.0	10	mg/l		273			1.85	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AJ30123-DUP2)

Source: 13I1610-01

Prepared: 10/01/13 Analyzed: 10/03/13

Total Dissolved Solids	724	5.0	10	mg/l		812			11.5	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

10/8/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/08/13 09:23

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI32721 - General Preparation											
Blank (AI32721-BLK1)											
					Prepared & Analyzed: 09/27/13						
Chloride	ND	0.030	0.50	mg/l							U
LCS (AI32721-BS1)											
					Prepared & Analyzed: 09/27/13						
Chloride	11.3	0.030	0.50	mg/l	11.1		101	90-110			
Duplicate (AI32721-DUP1)											
					Source: 13I1672-01		Prepared & Analyzed: 09/27/13				
Chloride	31.0	0.060	1.0	mg/l		31.2			0.412	20	
Matrix Spike (AI32721-MS1)											
					Source: 13I1672-01		Prepared & Analyzed: 09/27/13				
Chloride	42.3	0.060	1.0	mg/l	11.1	31.2	101	80-120			
Matrix Spike (AI32721-MS2)											
					Source: 13I1699-01		Prepared: 09/27/13 Analyzed: 09/28/13				
Chloride	24.0	0.15	2.5	mg/l	11.1	13.1	97.8	80-120			
Matrix Spike Dup (AI32721-MSD1)											
					Source: 13I1672-01		Prepared & Analyzed: 09/27/13				
Chloride	42.3	0.060	1.0	mg/l	11.1	31.2	101	80-120	0.0157	20	

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

10/8/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/08/13 09:23

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
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

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/8/2013

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Golder Associates
CHAIN OF CUSTODY

1317610

Quotation No.

PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?		
063-7109-914		Lehigh St 6 permit		TDS, chloride		Yes No		
SAMPLER(S):		Contract Laboratory:		TDS, chloride		Yes No		
David Walker (printed)		Alpha Standard		Vol 1 L				
David C. Galt (signature)		Container Info		N N -				
Sample I.D.	Lab I.D.	Collection		Type/Vol.	Filter	Preserv.	Cont. Qty.	Remarks
		Date	Time					
Rend 9 EFF M-002		9-24-13	1215	W			1	
Rend 94PR-001B			1225				1	
Rend 9DMR-002B			1230				1	
Rend 13B Eff M-003			1100				1	
Rend 17 Eff M-004			1300				1	
Rend 17DMR-002D			1310				1	

Relinquished by: (signature)
David C. Galt

Relinquished by: (signature)
Rodney Saniillon

Relinquished by: (signature)
R. Galt

Received by: (signature)
Rodney Saniillon

Received by: (signature)
R. Galt

Received by: (signature)
Rodney Saniillon

Date/Time: 9-24-13 16:30

Date/Time: 9/25/13 16:30

Date/Time: 9-25-13 2010

SEND RESULTS TO:
Attn: George Wegmann, Chew Tip
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224



Alpha

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ELAP Certificate Numbers 1551 and 2728

08 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13I1612

Enclosed are the results of analyses for samples received by the laboratory on 09/25/13 22:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/08/13 09:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF	1311612-01	Water	09/25/13 09:45	09/25/13 22:10
Pond 9 Comp	1311612-02	Water	09/25/13 10:35	09/25/13 22:10
Pond 17 Comp	1311612-03	Water	09/25/13 11:35	09/25/13 22:10

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

10/8/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/08/13 09:19

Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF (13I1612-01) Water Sampled: 09/25/13 09:45 Received: 09/25/13 22:10											
Total Dissolved Solids	920	5.0	10		mg/l	1	AJ30123	10/01/13 09:30	10/03/13 09:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AI32659	09/26/13 09:00	09/26/13 17:00	SM2540F	U
Pond 9 Comp (13I1612-02) Water Sampled: 09/25/13 10:35 Received: 09/25/13 22:10											
Total Suspended Solids	2.6	0.30	0.50		mg/l	1	AJ30121	10/01/13 08:10	10/03/13 14:27	SM2540D	
Pond 17 Comp (13I1612-03) Water Sampled: 09/25/13 11:35 Received: 09/25/13 22:10											
Total Suspended Solids	1.4	0.30	0.50		mg/l	1	AJ30121	10/01/13 08:10	10/03/13 14:27	SM2540D	

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

10/8/2013



alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/08/13 09:19

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF (13I1612-01) Water Sampled: 09/25/13 09:45 Received: 09/25/13 22:10											
Chloride	55	0.30	5.0		mg/l	10	AI32721	09/27/13 15:53	09/27/13 20:41	EPA 300.0	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/8/2013

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Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AJ30121 - General Preparation

Blank (AJ30121-BLK1)		Prepared: 10/01/13 Analyzed: 10/03/13									
Total Suspended Solids	ND	0.30	0.50	mg/l							U

Duplicate (AJ30121-DUP1)		Source: 13I1633-01 Prepared: 10/01/13 Analyzed: 10/03/13									
Total Suspended Solids	155	0.30	0.50	mg/l		155			0.00	30	

Duplicate (AJ30121-DUP2)		Source: 13I1663-01 Prepared: 10/01/13 Analyzed: 10/03/13									
Total Suspended Solids	294	0.30	0.50	mg/l		294			0.00	30	

Batch AJ30123 - General Preparation

Blank (AJ30123-BLK1)		Prepared: 10/01/13 Analyzed: 10/03/13									
Total Dissolved Solids	ND	5.0	10	mg/l							U

Duplicate (AJ30123-DUP1)		Source: 13I1594-02 Prepared: 10/01/13 Analyzed: 10/03/13									
Total Dissolved Solids	268	5.0	10	mg/l		273			1.85	30	

Duplicate (AJ30123-DUP2)		Source: 13I1610-01 Prepared: 10/01/13 Analyzed: 10/03/13									
Total Dissolved Solids	724	5.0	10	mg/l		812			11.5	30	

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Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI32721 - General Preparation											
Blank (AI32721-BLK1) Prepared & Analyzed: 09/27/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AI32721-BS1) Prepared & Analyzed: 09/27/13											
Chloride	11.3	0.030	0.50	mg/l	11.1		101	90-110			
Duplicate (AI32721-DUP1) Source: 13I1672-01 Prepared & Analyzed: 09/27/13											
Chloride	31.0	0.060	1.0	mg/l		31.2			0.412	20	
Matrix Spike (AI32721-MS1) Source: 13I1672-01 Prepared & Analyzed: 09/27/13											
Chloride	42.3	0.060	1.0	mg/l	11.1	31.2	101	80-120			
Matrix Spike (AI32721-MS2) Source: 13I1699-01 Prepared: 09/27/13 Analyzed: 09/28/13											
Chloride	24.0	0.15	2.5	mg/l	11.1	13.1	97.8	80-120			
Matrix Spike Dup (AI32721-MSD1) Source: 13I1672-01 Prepared & Analyzed: 09/27/13											
Chloride	42.3	0.060	1.0	mg/l	11.1	31.2	101	80-120	0.0157	20	

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10/08/13 09:19

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
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

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Golder Associates CHAIN OF CUSTODY

13I/612

Page 1 of 1
Quotation No. Invoice Lehigh

PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?	
0637109-914		Lehigh S+6 Permit		TSS (Composite)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): Ian Shanley Leah Ferguson (printed)		 		551 TDS (gmb)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CONTRACT LABORATORY: Alpha		Container Info		Type/Vol.		Remarks	
TURN-AROUND TIME: Standard		Date		Filter		Cont. Qty.	
Sample I.D.	Lab I.D.	Collection Date	Time	Matrix	Depth		
POND 4 EFF	M-001	9-25-13	9:45	W		2	Include J flags
POND 9 CAMP		↓	10:35			1	
POND 17 CAMP		↓	11:35			1	
Relinquished by: (signature)		Received by: (signature)		Date/Time:		SEND RESULTS TO:	
9-25-13 1300		Rodney Sotillon		16:30		Attn: George Wagoner Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Relinquished by: (signature)		Received by: (signature)		Date/Time:			
7-25-13		Rodney Sotillon		9-25-13 1920			
Relinquished by: (signature)		Received by: (signature)		Date/Time:			
7-25-13		Rodney Sotillon		9-25-13 2210			
Relinquished by: (signature)		Received by: (signature)		Date/Time:			
7-25-13		Rodney Sotillon		9-25-13 2210			

while lab open
Relinquished by: (signature)