



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

17 January 2013

Lehigh Southwest Cement Company

Attn: Scott Renfrew

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Pond Discharge

Work Order: 12L1208

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

Sincerely,

Sean Foley For Robbie C. Phillips
Project Manager



Alpha

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CHEMICAL EXAMINATION REPORT

Page 1 of 10

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

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

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

ANALYTICAL REPORT FOR SAMPLES

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

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Bruce Gove
Laboratory Director

1/17/2013



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Project ID: Pond Discharge

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

Alpha Analytical Laboratories, Inc.

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

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

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AA30751 - Metals Digest

Blank (AA30751-BLK1)

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

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

LCS (AA30751-BS1)

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

Antimony	0.198	0.020	mg/l	0.200		99.0	85-115			
Arsenic	0.0190	0.0020	"	0.0200		95.0	85-115			
Barium	0.188	0.010	"	0.200		94.0	85-115			
Beryllium	0.187	0.0010	"	0.200		93.5	85-115			
Cadmium	0.181	0.010	"	0.200		90.5	85-115			
Chromium	0.192	0.010	"	0.200		95.9	85-115			
Cobalt	0.182	0.010	"	0.200		91.2	85-115			
Copper	0.216	0.020	"	0.200		108	85-115			

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

Metals by EPA 200 Series Methods - Quality Control

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

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Project No: -
Project ID: Pond Discharge

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

Metals by EPA 200 Series Methods - Quality Control

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

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Project ID: Pond Discharge

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

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AA30751 - Metals Digest										
Matrix Spike (AA30751-MS2)		Source: 12L1208-06			Prepared: 01/08/13		Analyzed: 01/09/13			
Molybdenum	0.238	0.50	"	0.200	ND	97.6	70-130			
Nickel	0.197	0.010	"	0.200	ND	93.9	70-130			
Selenium	0.00380	0.0050	"	0.0200	ND	5.89	70-130			QM-01
Silver	0.196	0.010	"	0.200	ND	98.0	70-130			
Thallium	0.203	0.20	"	0.200	ND	93.0	70-130			
Vanadium	0.211	0.020	"	0.200	ND	98.8	70-130			
Zinc	0.195	0.020	"	0.200	ND	97.6	70-130			
Matrix Spike Dup (AA30751-MSD1)										
Matrix Spike Dup (AA30751-MSD1)		Source: 13A0092-04			Prepared: 01/07/13		Analyzed: 01/08/13			
Antimony	0.200	0.020	mg/l	0.200	ND	100	70-130	4.59	20	
Arsenic	0.0176	0.0020	"	0.0200	ND	88.2	70-130	0.167	20	
Barium	0.259	0.010	"	0.200	0.0703	94.5	70-130	6.08	20	
Beryllium	0.189	0.0010	"	0.200	ND	94.4	70-130	6.22	20	
Cadmium	0.182	0.010	"	0.200	ND	91.1	70-130	5.84	20	
Chromium	0.191	0.010	"	0.200	ND	95.0	70-130	5.32	20	
Cobalt	0.180	0.010	"	0.200	ND	89.5	70-130	4.89	20	
Copper	0.226	0.020	"	0.200	ND	109	70-130	5.82	20	
Lead	0.185	0.050	"	0.200	ND	92.5	80-120	7.87	20	
Molybdenum	0.201	0.50	"	0.200	ND	96.4	70-130	6.72	20	
Nickel	0.187	0.010	"	0.200	ND	91.4	70-130	7.33	20	
Selenium	0.00471	0.0050	"	0.0200	ND	23.6	70-130	6.23	20	QM-01
Silver	0.202	0.010	"	0.200	ND	101	70-130	5.18	20	
Thallium	0.198	0.20	"	0.200	ND	90.9	70-130	5.73	20	
Vanadium	0.180	0.020	"	0.200	ND	90.2	70-130	6.18	20	
Zinc	0.215	0.020	"	0.200	0.0268	94.2	70-130	4.59	20	

Batch AA31045 - EPA 245.1 Hg Water

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Report Date: 01/17/13 12:14
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Project ID: Pond Discharge

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

Metals by EPA 200 Series Methods - Quality Control

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

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

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

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

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

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

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

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

Bruce Gove
Laboratory Director

1/17/2013



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

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

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

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

Notes and Definitions

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

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Laboratory Director

1/17/2013