



*alpha*

Alpha Analytical Laboratories Inc.

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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: 12L0337

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

Sincerely,

Sean Foley For Robbie C. Phillips  
Project Manager



Alpha

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**CHEMICAL EXAMINATION REPORT**

Page 1 of 11

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

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

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

**ANALYTICAL REPORT FOR SAMPLES**

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

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

Bruce Gove  
Laboratory Director

1/17/2013



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Report Date: 01/17/13 12:11  
Project No: -  
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12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

**Alpha Analytical Laboratories, Inc.**

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>Pond 30- SE (12L0337-03)</b>			<b>Sample Type: Water</b>		<b>Sampled: 12/05/12 08:30</b>			
<b>Metals by EPA 200 Series Methods</b>								
Antimony	EPA 200.7	AL21042	12/10/12 11:32	12/12/12 17:39	1	ND mg/l	0.020	
Arsenic	EPA 200.9	"	"	12/13/12 20:47	"	ND "	0.0020	
<b>Barium</b>	EPA 200.7	"	"	12/12/12 17:39	"	<b>0.089 "</b>	<b>0.010</b>	
Beryllium	"	"	"	"	"	ND "	0.0010	
Cadmium	"	"	"	"	"	ND "	0.010	
Chromium	"	"	"	"	"	ND "	0.010	
Cobalt	"	"	"	"	"	ND "	0.010	
Copper	"	"	"	"	"	ND "	0.020	
Lead	"	"	"	"	"	ND "	0.050	
Mercury	EPA 245.1	AL21339	12/14/12 07:00	12/14/12 10:46	"	ND "	0.0010	
Molybdenum	EPA 200.7	AL21042	12/10/12 11:32	12/12/12 17:39	"	ND "	0.50	
Nickel	"	"	"	"	"	ND "	0.010	
<b>Selenium</b>	EPA 200.9	"	"	12/14/12 12:39	"	<b>0.0059 "</b>	<b>0.0050</b>	
Silver	EPA 200.7	"	"	12/12/12 17:39	"	ND "	0.010	
Thallium	"	"	"	"	"	ND "	0.20	
Vanadium	"	"	"	"	"	ND "	0.020	
<b>Zinc</b>	"	"	"	"	"	<b>0.027 "</b>	<b>0.020</b>	

**Conventional Chemistry Parameters by APHA/EPA Methods**

Oil & Grease (HEM)	EPA 1664	AL21763	12/18/12 09:00	12/19/12 13:00	1	ND mg/l	5.0	
<b>pH</b>	SM4500-H+ B	AL21147	12/06/12 12:57	12/06/12 17:27	"	<b>7.92 pH Units</b>	<b>1.68</b>	T-14
<b>Specific Conductance (EC)</b>	SM2510B	"	"	12/06/12 17:30	"	<b>1400 umhos/cm</b>	<b>20</b>	
<b>Total Dissolved Solids</b>	SM2540C	AL21025	12/10/12 09:30	12/12/12 13:00	"	<b>1200 mg/l</b>	<b>10</b>	
<b>Total Suspended Solids</b>	SM2540D	AL21129	12/11/12 08:03	12/13/12 11:30	"	<b>4.4 "</b>	<b>1.0</b>	
Total Settleable Solids	SM2540F	AL21147	12/06/12 12:57	12/06/12 17:27	"	ND ml/l/hr	0.10	
<b>Total Organic Carbon</b>	SM5310C	AL21733	12/17/12 10:45	12/18/12 20:44	"	<b>6.53 mg/l</b>	<b>1.00</b>	

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Bruce Gove  
Laboratory Director

1/17/2013



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

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

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

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

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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**Batch AL21042 - Metals Digest**

**Blank (AL21042-BLK1)**

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

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

**LCS (AL21042-BS1)**

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

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

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Project ID: Pond Discharge

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

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

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

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Project No: -  
Project ID: Pond Discharge

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

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

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21042 - Metals Digest</b>										
<b>Matrix Spike (AL21042-MS1)</b>		<b>Source: 12L0227-01</b>			Prepared: 12/10/12 Analyzed: 12/12/12					
Antimony	0.200	0.020	mg/l	0.200	ND	100	70-130			
Arsenic	0.0199	0.0020	"	0.0200	0.00518	73.7	70-130			
Barium	0.262	0.010	"	0.200	0.0622	99.7	70-130			
Beryllium	0.201	0.0010	"	0.200	ND	100	70-130			
Cadmium	0.192	0.010	"	0.200	ND	96.0	70-130			
Chromium	0.206	0.010	"	0.200	ND	99.7	70-130			
Cobalt	0.195	0.010	"	0.200	ND	97.7	70-130			
Copper	0.278	0.020	"	0.200	0.0471	115	70-130			
Lead	0.198	0.050	"	0.200	ND	99.2	80-120			
Molybdenum	0.205	0.50	"	0.200	ND	98.5	70-130			
Nickel	0.360	0.010	"	0.200	0.160	99.9	70-130			
Selenium	0.0161	0.0050	"	0.0200	ND	80.4	70-130			
Silver	0.203	0.010	"	0.200	ND	102	70-130			
Thallium	0.201	0.20	"	0.200	ND	101	70-130			
Vanadium	0.192	0.020	"	0.200	ND	96.0	70-130			
Zinc	0.288	0.020	"	0.200	0.0886	99.9	70-130			
<b>Matrix Spike (AL21042-MS2)</b>		<b>Source: 12L0337-04</b>			Prepared: 12/10/12 Analyzed: 12/12/12					
Antimony	0.193	0.020	mg/l	0.200	ND	96.4	70-130			
Arsenic	0.0179	0.0020	"	0.0200	ND	89.4	70-130			
Barium	0.289	0.010	"	0.200	0.101	93.8	70-130			
Beryllium	0.192	0.0010	"	0.200	ND	95.8	70-130			
Cadmium	0.185	0.010	"	0.200	ND	92.5	70-130			
Chromium	0.197	0.010	"	0.200	ND	96.3	70-130			
Cobalt	0.180	0.010	"	0.200	ND	90.0	70-130			
Copper	0.221	0.020	"	0.200	ND	108	70-130			
Lead	0.185	0.050	"	0.200	ND	92.6	80-120			

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

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

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21042 - Metals Digest</b>										
<b>Matrix Spike (AL21042-MS2)</b>		<b>Source: 12L0337-04</b>			Prepared: 12/10/12		Analyzed: 12/12/12			
Molybdenum	0.205	0.50	"	0.200	ND	97.1	70-130			
Nickel	0.186	0.010	"	0.200	ND	93.0	70-130			
Selenium	0.00582	0.0050	"	0.0200	ND	14.6	70-130			QM-01
Silver	0.200	0.010	"	0.200	ND	100	70-130			
Thallium	0.201	0.20	"	0.200	ND	91.7	70-130			
Vanadium	0.193	0.020	"	0.200	ND	93.8	70-130			
Zinc	0.185	0.020	"	0.200	ND	92.7	70-130			
<b>Matrix Spike Dup (AL21042-MSD1)</b>										
<b>Matrix Spike Dup (AL21042-MSD1)</b>		<b>Source: 12L0227-01</b>			Prepared: 12/10/12		Analyzed: 12/12/12			
Antimony	0.197	0.020	mg/l	0.200	ND	98.7	70-130	1.31	20	
Arsenic	0.0202	0.0020	"	0.0200	0.00518	75.0	70-130	1.37	20	
Barium	0.255	0.010	"	0.200	0.0622	96.5	70-130	2.46	20	
Beryllium	0.197	0.0010	"	0.200	ND	98.7	70-130	1.72	20	
Cadmium	0.187	0.010	"	0.200	ND	93.4	70-130	2.66	20	
Chromium	0.201	0.010	"	0.200	ND	97.3	70-130	2.40	20	
Cobalt	0.190	0.010	"	0.200	ND	94.8	70-130	3.03	20	
Copper	0.272	0.020	"	0.200	0.0471	112	70-130	2.27	20	
Lead	0.196	0.050	"	0.200	ND	97.8	80-120	1.47	20	
Molybdenum	0.204	0.50	"	0.200	ND	97.8	70-130	0.658	20	
Nickel	0.351	0.010	"	0.200	0.160	95.7	70-130	2.37	20	
Selenium	0.0166	0.0050	"	0.0200	ND	83.0	70-130	3.19	20	
Silver	0.199	0.010	"	0.200	ND	99.6	70-130	1.93	20	
Thallium	0.201	0.20	"	0.200	ND	100	70-130	0.283	20	
Vanadium	0.189	0.020	"	0.200	ND	94.3	70-130	1.87	20	
Zinc	0.281	0.020	"	0.200	0.0886	96.4	70-130	2.47	20	

**Batch AL21339 - EPA 245.1 Hg Water**

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Laboratory Director

1/17/2013



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

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

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

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Project No: -  
Project ID: Pond Discharge

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

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

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

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Bruce Gove  
Laboratory Director

1/17/2013



Alpha Analytical Laboratories Inc.

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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: Scott Renfrew

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

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

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

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

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**CHEMICAL EXAMINATION REPORT**

Page 10 of 11

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Report Date: 01/17/13 12:11  
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Project ID: Pond Discharge

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12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

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

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21763 - General Preparation</b>										
<b>Matrix Spike (AL21763-MS1)</b>										
<b>Source: 12L0479-02</b>										
Prepared: 12/18/12 Analyzed: 12/19/12										
Oil & Grease (HEM)	23.2	5.0	mg/l	20.0	ND	110	78-114			

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CHEMICAL EXAMINATION REPORT

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12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Notes and Definitions

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

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1/17/2013