

Date of Report: 01/28/2016

George Wegmann

Golder Associates

425 Lakeside Drive  
Sunnyvale, CA 94085

Client Project: 0637109922

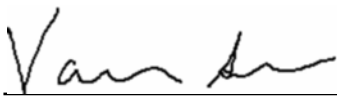
BCL Project: Lehigh

BCL Work Order: 1601351

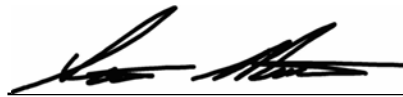
Invoice ID: B225208

Enclosed are the results of analyses for samples received by the laboratory on 1/13/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Vanessa Sandoval  
Client Service Rep



Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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C:\Users\JLinder\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\ANB3BK0K\COCs NPDES 30.xlsx



**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

**Chain of Custody and Cooler Receipt Form for 1601351 Page 2 of 2**

BC LABORATORIES INC.		COOLER RECEIPT FORM		Page	Of						
Submission #: 16-01351											
<b>SHIPPING INFORMATION</b>		<b>SHIPPING CONTAINER</b>		<b>FREE LIQUID</b>							
Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		YES <input type="checkbox"/> NO <input type="checkbox"/>							
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: PE Thermometer ID: 208		Date/Time: 1/13/10 2020							
		Temperature: (A) 1.6 °C (C) 1.1 °C		Analyst Init: JF							
<b>SAMPLE CONTAINERS</b>		<b>SAMPLE NUMBERS</b>									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		BC									
4oz / 8oz / 16oz PE UNPRES											
2oz Cr <sup>6</sup>		A									
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		D									
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PTA PHENOLICS											
10ml VOA VIAL TRAVEL BLANK											
10ml VOA VIAL											
PT EPA 1664		912 E									
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
0 ml VOA VIAL- 504											
PT EPA 508/608/8080											
PT EPA 515.1/8150											
PT EPA 525											
PT EPA 525 TRAVEL BLANK											
1ml EPA 547											
1ml EPA 531.1											
12 EPA 548											
T EPA 549											
T EPA 8015M											
T EPA 8270											
2 / 16oz / 32oz AMBER											
2 / 16oz / 32oz JAR		912 F									
JIL SLEEVE											
JB VIAL											
ASTIC BAG											
DLAR BAG											
RROUS IRON											
ICORE											
IART KIT											
MMA CANISTER											
Comments: _____											
Sample Numbering Completed By: DDP Date/Time: 1/13/10 2251 Rev 20 07/24/2015											
Actual / C = Corrected [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20]											

Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 01/28/2016 15:26  
**Project:** Lehigh  
**Project Number:** 0637109922  
**Project Manager:** George Wegmann

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1601351-01	<b>COC Number:</b>	---	<b>Receive Date:</b>	01/13/2016 08:50
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	01/13/2016 08:50
	<b>Sampling Location:</b>	Pond 30 (EFF-006)	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	Pond 30 (EFF-006)	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	---	<b>Sample Type:</b>	Water

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## EPA Method 1664

<b>BCL Sample ID:</b>	1601351-01	<b>Client Sample Name:</b>	Pond 30 (EFF-006), Pond 30 (EFF-006), 1/13/2016 8:50:00AM					
<b>Constituent</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Method</b>	<b>MB Bias</b>	<b>Lab Quals</b>	<b>Run #</b>
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

<b>Run #</b>	<b>Method</b>	<b>Prep Date</b>	<b>Run Date/Time</b>	<b>Analyst</b>	<b>Instrument</b>	<b>Dilution</b>	<b>QC Batch ID</b>
1	EPA-1664A HEM	01/19/16	01/19/16 14:00	MAM	MAN-SV	1	BZA1992

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## Water Analysis (General Chemistry)

<b>BCL Sample ID:</b>	1601351-01	<b>Client Sample Name:</b> Pond 30 (EFF-006), Pond 30 (EFF-006), 1/13/2016 8:50:00AM						
<b>Constituent</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Method</b>	<b>MB Bias</b>	<b>Lab Quals</b>	<b>Run #</b>
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		1
Total Suspended Solids (Glass Fiber)	6.5	mg/L	0.50	0.50	SM-2540D	ND		2
Settleable Solids	ND	ml/L	0.10	0.10	SM-2540F			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540C	01/18/16	01/18/16 13:00	CAD	MANUAL	5	BZA1383
2	SM-2540D	01/19/16	01/19/16 12:58	OJP	MANUAL	1	BZA1539
3	SM-2540F	01/14/16	01/14/16 07:25	RT1	MANUAL	1	BZA1121

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## Metals Analysis

BCL Sample ID: 1601351-01		Client Sample Name: Pond 30 (EFF-006), Pond 30 (EFF-006), 1/13/2016 8:50:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	2.2	ug/L	0.20	0.055	EPA-218.6	ND		1
Total Recoverable Antimony	0.19	ug/L	2.0	0.11	EPA-200.8	ND	J	2
Total Recoverable Arsenic	1.4	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Beryllium	ND	ug/L	1.0	0.14	EPA-200.8	ND		2
Total Recoverable Cadmium	0.41	ug/L	1.0	0.11	EPA-200.8	ND	J	2
Total Recoverable Chromium	10	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Copper	7.3	ug/L	2.0	0.22	EPA-200.8	0.62		2
Total Recoverable Lead	0.16	ug/L	1.0	0.10	EPA-200.8	ND	J	2
Total Recoverable Nickel	11	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Selenium	14	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Silver	ND	ug/L	1.0	0.10	EPA-200.8	ND		2
Total Recoverable Thallium	0.14	ug/L	1.0	0.10	EPA-200.8	ND	J	2
Total Recoverable Zinc	100	ug/L	10	1.7	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-218.6	01/14/16	01/14/16 12:44	OLH	IC-4	1	BZA1131
2	EPA-200.8	01/20/16	01/21/16 11:58	GPD	PE-EL2	1	BZA1613

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EPA Method 1664						
Quality Control Report - Method Blank Analysis						
Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<div>QC Batch ID: BZA1992</div>						
Oil and Grease	BZA1992-BLK1	ND	mg/L	5.0	1.7	

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EPA Method 1664										
Quality Control Report - Laboratory Control Sample										
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
								RPD	Quals	
QC Batch ID: BZA1992										
Oil and Grease	BZA1992-BS1	LCS	38.050	42.200	mg/L	90.2		78 - 114		

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## EPA Method 1664

### Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: BZA1992		Used client sample: N									
Oil and Grease	DUP	1532390-35	ND	ND		mg/L				18	
	MS	1532390-35	ND	38.950	42.200	mg/L		92.3		78 - 114	
	MSD	1532390-35	ND	37.150	42.200	mg/L	4.7	88.0	18	78 - 114	

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## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BZA1383</b>						
Total Dissolved Solids @ 180 C	BZA1383-BLK1	ND	mg/L	6.7	6.7	
<b>QC Batch ID: BZA1539</b>						
Total Suspended Solids (Glass Fiber)	BZA1539-BLK1	ND	mg/L	0.50	0.50	

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Water Analysis (General Chemistry)										
Quality Control Report - Laboratory Control Sample										
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZA1383										
Total Dissolved Solids @ 180 C	BZA1383-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		

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## Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

									<u>Control Limits</u>		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
<b>QC Batch ID: BZA1121</b>		Used client sample: Y - Description: Pond 30 (EFF-006), 01/13/2016 08:50									
Settleable Solids	DUP	1601351-01	ND	ND		ml/L			10		
<b>QC Batch ID: BZA1383</b>		Used client sample: Y - Description: Pond 30 (EFF-006), 01/13/2016 08:50									
Total Dissolved Solids @ 180 C	DUP	1601351-01	1045.0	1045.0		mg/L	0		10		
<b>QC Batch ID: BZA1539</b>		Used client sample: N									
Total Suspended Solids (Glass Fiber)	DUP	1601321-01	76.000	76.000		mg/L	0		10		

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## Metals Analysis

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BZA1131</b>						
Hexavalent Chromium	BZA1131-BLK1	ND	ug/L	0.20	0.055	
<b>QC Batch ID: BZA1613</b>						
Total Recoverable Antimony	BZA1613-BLK1	ND	ug/L	2.0	0.11	
Total Recoverable Arsenic	BZA1613-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Beryllium	BZA1613-BLK1	ND	ug/L	1.0	0.14	
Total Recoverable Cadmium	BZA1613-BLK1	ND	ug/L	1.0	0.11	
Total Recoverable Chromium	BZA1613-BLK1	ND	ug/L	3.0	0.50	
<b>Total Recoverable Copper</b>	<b>BZA1613-BLK1</b>	<b>0.62000</b>	<b>ug/L</b>	<b>2.0</b>	<b>0.22</b>	<b>J</b>
Total Recoverable Lead	BZA1613-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Nickel	BZA1613-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Selenium	BZA1613-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Silver	BZA1613-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Thallium	BZA1613-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Zinc	BZA1613-BLK1	ND	ug/L	10	1.7	

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## Metals Analysis

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZA1131										
Hexavalent Chromium	BZA1131-BS1	LCS	20.369	20.000	ug/L	102		90 - 110		
QC Batch ID: BZA1613										
Total Recoverable Antimony	BZA1613-BS1	LCS	40.514	40.000	ug/L	101		85 - 115		
Total Recoverable Arsenic	BZA1613-BS1	LCS	97.221	100.00	ug/L	97.2		85 - 115		
Total Recoverable Beryllium	BZA1613-BS1	LCS	41.048	40.000	ug/L	103		85 - 115		
Total Recoverable Cadmium	BZA1613-BS1	LCS	40.913	40.000	ug/L	102		85 - 115		
Total Recoverable Chromium	BZA1613-BS1	LCS	42.989	40.000	ug/L	107		85 - 115		
Total Recoverable Copper	BZA1613-BS1	LCS	100.98	100.00	ug/L	101		85 - 115		
Total Recoverable Lead	BZA1613-BS1	LCS	102.05	100.00	ug/L	102		85 - 115		
Total Recoverable Nickel	BZA1613-BS1	LCS	99.491	100.00	ug/L	99.5		85 - 115		
Total Recoverable Selenium	BZA1613-BS1	LCS	100.72	100.00	ug/L	101		85 - 115		
Total Recoverable Silver	BZA1613-BS1	LCS	40.010	40.000	ug/L	100		85 - 115		
Total Recoverable Thallium	BZA1613-BS1	LCS	40.293	40.000	ug/L	101		85 - 115		
Total Recoverable Zinc	BZA1613-BS1	LCS	98.546	100.00	ug/L	98.5		85 - 115		

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## Metals Analysis

### Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: BZA1131		Used client sample: N									
Hexavalent Chromium	DUP	1601383-01	30.363	29.690		ug/L	2.2		10		
	MS	1601383-01	30.363	50.817	20.202	ug/L		101		90 - 110	
	MSD	1601383-01	30.363	50.700	20.202	ug/L	0.2	101	10	90 - 110	
QC Batch ID: BZA1613		Used client sample: Y - Description: Pond 30 (EFF-006), 01/13/2016 08:50									
Total Recoverable Antimony	DUP	1601351-01	0.18900	0.20000		ug/L	5.7		20		J
	MS	1601351-01	0.18900	41.135	40.000	ug/L		102		70 - 130	
	MSD	1601351-01	0.18900	41.116	40.000	ug/L	0.0	102	20	70 - 130	
Total Recoverable Arsenic	DUP	1601351-01	1.3890	ND		ug/L			20		
	MS	1601351-01	1.3890	109.58	100.00	ug/L		108		70 - 130	
	MSD	1601351-01	1.3890	105.11	100.00	ug/L	4.2	104	20	70 - 130	
Total Recoverable Beryllium	DUP	1601351-01	ND	ND		ug/L			20		
	MS	1601351-01	ND	43.007	40.000	ug/L		108		70 - 130	
	MSD	1601351-01	ND	42.529	40.000	ug/L	1.1	106	20	70 - 130	
Total Recoverable Cadmium	DUP	1601351-01	0.41000	0.39000		ug/L	5.0		20		J
	MS	1601351-01	0.41000	40.041	40.000	ug/L		99.1		70 - 130	
	MSD	1601351-01	0.41000	38.482	40.000	ug/L	4.0	95.2	20	70 - 130	
Total Recoverable Chromium	DUP	1601351-01	10.221	4.3520		ug/L	80.5		20		Q01
	MS	1601351-01	10.221	50.579	40.000	ug/L		101		70 - 130	
	MSD	1601351-01	10.221	49.391	40.000	ug/L	2.4	97.9	20	70 - 130	
Total Recoverable Copper	DUP	1601351-01	7.2980	10.423		ug/L	35.3		20		Q01
	MS	1601351-01	7.2980	104.30	100.00	ug/L		97.0		70 - 130	
	MSD	1601351-01	7.2980	100.12	100.00	ug/L	4.1	92.8	20	70 - 130	
Total Recoverable Lead	DUP	1601351-01	0.15700	0.16900		ug/L	7.4		20		J
	MS	1601351-01	0.15700	94.072	100.00	ug/L		93.9		70 - 130	
	MSD	1601351-01	0.15700	94.366	100.00	ug/L	0.3	94.2	20	70 - 130	
Total Recoverable Nickel	DUP	1601351-01	10.569	11.495		ug/L	8.4		20		
	MS	1601351-01	10.569	113.14	100.00	ug/L		103		70 - 130	
	MSD	1601351-01	10.569	109.40	100.00	ug/L	3.4	98.8	20	70 - 130	
Total Recoverable Selenium	DUP	1601351-01	13.730	14.744		ug/L	7.1		20		
	MS	1601351-01	13.730	128.01	100.00	ug/L		114		70 - 130	
	MSD	1601351-01	13.730	124.23	100.00	ug/L	3.0	110	20	70 - 130	
Total Recoverable Silver	DUP	1601351-01	ND	ND		ug/L			20		
	MS	1601351-01	ND	39.246	40.000	ug/L		98.1		70 - 130	
	MSD	1601351-01	ND	38.289	40.000	ug/L	2.5	95.7	20	70 - 130	
Total Recoverable Thallium	DUP	1601351-01	0.13800	0.14300		ug/L	3.6		20		J
	MS	1601351-01	0.13800	37.991	40.000	ug/L		94.6		70 - 130	
	MSD	1601351-01	0.13800	38.018	40.000	ug/L	0.1	94.7	20	70 - 130	

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 01/28/2016 15:26  
**Project:** Lehigh  
**Project Number:** 0637109922  
**Project Manager:** George Wegmann

## Metals Analysis

### Quality Control Report - Precision & Accuracy

									<u>Control Limits</u>		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
<b>QC Batch ID: BZA1613</b>		Used client sample: Y - Description: Pond 30 (EFF-006), 01/13/2016 08:50									
Total Recoverable Zinc	DUP	1601351-01	101.36	111.36		ug/L	9.4		20		
	MS	1601351-01	101.36	210.40	100.00	ug/L		109		70 - 130	
	MSD	1601351-01	101.36	202.98	100.00	ug/L	3.6	102	20	70 - 130	

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www.basiclab.com

2218 Railroad Avenue  
Redding, California 96001

voice 530.243.7234  
fax 530.243.7494

3860 Morrow Lane, Suite F  
Chico, California 95928

voice 530.894.8966  
fax 530.894.5143

January 27, 2016

**Lab ID: 16A0688**

VANESSA SANDOVAL  
B C LABORATORIES INCORPORATED  
4100 ATLAS COURT  
BAKERSFIELD, CA 93308  
RE: HG 1631 TESTING 1601351

Dear VANESSA SANDOVAL ,

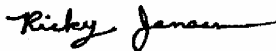
Enclosed are the analysis results for Work Order number 16A0688. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,



For



Ricky D. Jensen  
Laboratory Director

California ELAP Certification Number 1677

Page 1 of 3

basic  
laboratory

www.basiclab.com

2218 Railroad Avenue voice 530.243.7234  
Redding, California 96001 fax 530.243.74943860 Morrow Lane, Suite F voice 530.894.8966  
Chico, California 95928 fax 530.894.5143Report To: B C LABORATORIES INCORPORATED  
4100 ATLAS COURT  
BAKERSFIELD, CA 93308

Attention: VANESSA SANDOVAL

Project: HG 1631 TESTING 1601351

Description: 1601351-01

Lab ID: 16A0688-01

Lab No: 16A0688  
Reported: 01/27/16  
Phone: (661) 327-4911  
P.O. #

Sampled: 01/13/16 08:50

Matrix: Water

Received Temp (C): 7.4

Received: 01/15/16 12:52

## Metals - Total

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Mercury	ng/l	9.78		0.20	0.50	EPA 1631E	01/26/16	01/26/16	B6A1279

## Quality Control Data

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

## Metals - Total

## Batch B6A1279 - BrCl Digestion

<b>Blank</b>										
Mercury	ND	0.50	ng/l							
<b>Blank</b>										
Mercury	0.413	0.50	ng/l							QC-08, J
<b>Blank</b>										
Mercury	ND	0.50	ng/l							
<b>LCS</b>										
Mercury	17.6	0.50	ng/l	20.0		87.8	84.1-120			
<b>Matrix Spike Source: 16A0688-01</b>										
Mercury	27.2	0.50	ng/l	20.0	9.78	87.0	74.3-125			
<b>Matrix Spike Dup Source: 16A0688-01</b>										
Mercury	26.8	0.50	ng/l	20.0	9.78	85.1	74.3-125	1.45	24	

Approved By

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718

Page 2 of 3

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Redding, California 96001voice 530.243.7234  
fax 530.243.74943860 Morrow Lane, Suite F  
Chico, California 95928voice 530.894.8966  
fax 530.894.5143

**Report To:** B C LABORATORIES INCORPORATED  
4100 ATLAS COURT  
BAKERSFIELD, CA 93308  
**Attention:** VANESSA SANDOVAL  
**Project:** HG 1631 TESTING 1601351

**Lab No:** 16A0688  
**Reported:** 01/27/16  
**Phone:** (661) 327-4911  
**P.O. #**

### Notes and Definitions

- QC-08 An increased concentration of BrCl was necessary to fully oxidize this sample. As required by EPA 1631E, a laboratory method blank containing the additional BrCl was analyzed with the sample.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is equivalent to the DNQ Estimated Concentration flag.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- < Less than reporting limit
- ≤ Less than or equal to reporting limit
- > Greater than reporting limit
- ≥ Greater than or equal to reporting limit
- MDL Method Detection Limit
- RL/ML Minimum Level of Quantitation
- MCL/AL Maximum Contaminant Level/Action Level
- mg/kg Results reported as wet weight
- TTLC Total Threshold Limit Concentration
- STLC Soluble Threshold Limit Concentration
- TCLP Toxicity Characteristic Leachate Procedure
- Note 1 Received Temperature - according to EPA guidelines, samples for most chemistry methods should be held at ≤6 degrees C after collection, including during transportation, unless the time from sampling to delivery is <2 hours. Regulating agencies may invalidate results if temperature requirements are not met.
- Note 2 According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

Approved By

Basic Laboratory, Inc.  
California ELAP Cert #1677 and #2718

Page 3 of 3

**SUBCONTRACT ORDER**  
**BC Laboratories**  
**1601351**

**SENDING LABORATORY:**

BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308  
Phone: 661-327-4911  
FAX: 661-327-1918  
Project Manager: Vanessa Sandoval


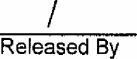
**RECEIVING LABORATORY:**

Basic Laboratory, Inc.  
2218 Railroad Ave.  
Redding, CA 96001  
James E. Hawley  
Phone: (530) 243-7234  
FAX: ---

*16A0688*  
*Due 1-24-16* **BSCLB**  

**16A0688**  
**1**

Analysis	Due	Expires	Comments
<b>Sample ID: 1601351-01</b>	<b>Water</b>	<b>Sampled: 01/13/16 08:50</b>	
EPA 1631 - Mercury	01/27/16 17:00	07/12/16 08:50	
Containers supplied:	<i>F</i>		<i>7.4°</i>

	<i>1-14-16</i>	<i>T. Wilhelmson</i>	<i>1-15-16 1252</i>
Released By	Date	Received By	Date
		<i>T. Wilhelmson</i>	<i>1-15-16 1527</i>
Released By	Date	Received By	Date

Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 01/28/2016 15:26  
**Project:** Lehigh  
**Project Number:** 0637109922  
**Project Manager:** George Wegmann

## Notes And Definitions

J Estimated Value (CLP Flag)  
MDL Method Detection Limit  
ND Analyte Not Detected  
PQL Practical Quantitation Limit  
Q01 Sample precision is not within the control limits.

Date of Report: 02/04/2016

George Wegmann

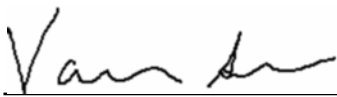
Golder Associates

425 Lakeside Drive  
Sunnyvale, CA 94085

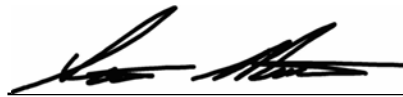
Client Project: [none]  
BCL Project: Lehigh NPDES  
BCL Work Order: 1601918  
Invoice ID: B225801

Enclosed are the results of analyses for samples received by the laboratory on 1/19/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Vanessa Sandoval  
Client Service Rep



Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Environmental Testing Laboratory Since 1949

*[Handwritten signature]*

Quotation No. \_\_\_\_\_



16-01918

# Golder Associates CHAIN OF CUSTODY

PROJECT NO.: 063-7109-922		SITE NAME: Lehigh NPDES		ANALYSES <i>Tot Sol + Volat (2540)</i> <i>TSS (2540) TDS (2540)</i> <i>045 (1664)</i> <i>PP13 metals</i> <i>CDO Series minims Hg</i> <i>Cr 6+ (218.6)</i> <i>Hg (1631)</i>					<div>EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</div> <div>EDF required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</div>				
SAMPLER(S): David Walter (printed) David C. Helt (signature)		CONTRACT LABORATORY: BC Labs		Container Info									
TURN-AROUND TIME: Standard													
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	1L	1L	500ml	100ml	250ml	Cont. Qty.	Remarks
		Date	Time			Filter	N	N	N	N	N		
EFF-006	-	1-18-16	1550	W		Preserv.	-	HCL	HNO3	Buffer	-	6	
<div>CHK BY <i>[Signature]</i> DISTRIBUTION <i>[Signature]</i> SUB-OUT <i>[Signature]</i></div> <div>SHORT HOLDING TIME <i>1/19</i> Cr<sup>6+</sup> NO<sub>2</sub> NO<sub>3</sub> OP SS DO Cl<sub>2</sub> BOD MBAS COT</div>													
Relinquished by: (signature) <i>David C. Helt</i>		Received by: (signature) <i>[Signature]</i> PBINS BCL		Date/Time: 1/19/16 12:30pm		SEND RESULTS TO: Attn: <i>George Wegmann, Sam Burke</i> Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224							
Relinquished by: (signature) <i>[Signature]</i> BCL 1/19/16 1401		Received by: (signature) <i>May Bagon</i>		Date/Time: 1-19-16 (140)									
Relinquished by: (signature) <i>May Bagon</i> 1-19-16 1830		Received by: (signature) <i>[Signature]</i>		Date/Time: 1/19/16 18:30									

white: lab copy yellow: project file

REL. *[Signature]* 1/19/16 2150 *[Signature]* 1-19-16 2150



**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

**Chain of Custody and Cooler Receipt Form for 1601918 Page 2 of 2**

BC LABORATORIES INC.		COOLER RECEIPT FORM		Page	Of						
Submission #: <u>110-01918</u>											
<b>SHIPPING INFORMATION</b>			<b>SHIPPING CONTAINER</b>		<b>FREE LIQUID</b>						
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/>	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/> Box <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>						
BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			Other <input type="checkbox"/> (Specify) _____								
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals Ice Chest <input type="checkbox"/> Containers: <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
<b>COC Received</b>		Emissivity: <u>0.97</u>	Container: <u>PE</u>	Thermometer ID: <u>208</u>	Date/Time: <u>1/19/2017</u>						
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Temperature: (A) <u>1.6</u> °C / (C) <u>1.1</u> °C	Analyst Init: <u>DDP</u>								
<b>SAMPLE CONTAINERS</b>		<b>SAMPLE NUMBERS</b>									
		2	3	4	5	6	7	8	9	10	
10 PE UNPRES											
oz / 8oz / 16oz PE UNPRES											
oz Cr <sup>6</sup>											
10 PE UNPRES											
10 INORGANIC CHEMICAL METALS											
10 INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
10 CYANIDE											
10 NITROGEN FORMS											
10 TOTAL SULFIDE											
10 NITRATE / NITRITE											
10 TOTAL ORGANIC CARBON											
10 CHEMICAL OXYGEN DEMAND											
10 PHENOLICS											
10 ml VOA VIAL TRAVEL BLANK											
10 ml VOA VIAL											
10 EPA 1664											
10 ODOR											
10 BIOLOGICAL											
10 CTERIOLOGICAL											
10 ml VOA VIAL- 504											
10 EPA 508/608/8080											
10 EPA 515.1/8150											
10 EPA 525											
10 EPA 525 TRAVEL BLANK											
10 EPA 547											
10 EPA 531.1											
10 EPA 548											
10 EPA 549											
10 EPA 8015M											
10 EPA 8270											
10 16oz / 32oz AMBER											
10 16oz / 32oz JAR											
10 SLEEVE											
10 VIAL											
10 STIC BAG											
10 LAR BAG											
10 ROUS IRON											
10 ORE											
10 RT KIT											
10 MA CANISTER											
Comments: _____											
Date/Time: <u>1/19/17</u> <u>DDP</u> Rev 20 07/24/2015											

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1601918-01	<b>COC Number:</b>	---	<b>Receive Date:</b>	01/19/2016 21:50
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	01/18/2016 15:50
	<b>Sampling Location:</b>	EFF-006	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	EFF-006	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	---	<b>Sample Type:</b>	Water

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## EPA Method 1664

<b>BCL Sample ID:</b>	1601918-01	<b>Client Sample Name:</b>	EFF-006, EFF-006, 1/18/2016 3:50:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/25/16	01/25/16 10:00	MAM	MAN-SV	1	BZA2180

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Water Analysis (General Chemistry)

<b>BCL Sample ID:</b>	1601918-01	<b>Client Sample Name:</b>	EFF-006, EFF-006, 1/18/2016 3:50:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Dissolved Solids @ 180 C	1000	mg/L	50	50	SM-2540C	ND		1
Total Suspended Solids (Glass Fiber)	8.3	mg/L	0.50	0.50	SM-2540D	ND		2
Settleable Solids	ND	ml/L-hr	0.10	0.10	SM-2540F			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540C	01/21/16	01/21/16 12:00	CAD	MANUAL	5	BZA1771
2	SM-2540D	01/22/16	01/22/16 12:21	OJP	MANUAL	1	BZA1915
3	SM-2540F	01/20/16	01/20/16 07:30	RT1	MANUAL	1	BZA1662

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Metals Analysis

BCL Sample ID: 1601918-01		Client Sample Name: EFF-006, EFF-006, 1/18/2016 3:50:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	2.6	ug/L	0.20	0.034	EPA-218.6	ND		1
Total Recoverable Antimony	0.34	ug/L	2.0	0.11	EPA-200.8	ND	J	2
Total Recoverable Arsenic	DNQ 1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Beryllium	ND	ug/L	1.0	0.14	EPA-200.8	ND		2
Total Recoverable Cadmium	0.27	ug/L	1.0	0.11	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.5	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Copper	4.3	ug/L	2.0	0.22	EPA-200.8	ND		2
Total Recoverable Lead	DNQ 0.60	ug/L	1.0	0.10	EPA-200.8	ND	J	2
Total Recoverable Nickel	12	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Selenium	14	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Silver	ND	ug/L	1.0	0.10	EPA-200.8	ND		2
Total Recoverable Thallium	0.11	ug/L	1.0	0.10	EPA-200.8	ND	J	2
Total Recoverable Zinc	64	ug/L	10	1.7	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-218.6	01/19/16	01/20/16 02:12	OLH	IC-4	1	BZA1632
2	EPA-200.8	01/25/16	01/25/16 21:44	GPD	PE-EL2	1	BZA1976

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	<b>Reported:</b> 02/04/2016 11:17 <b>Project:</b> Lehigh NPDES <b>Project Number:</b> [none] <b>Project Manager:</b> George Wegmann
--	--

EPA Method 1664						
Quality Control Report - Method Blank Analysis						
Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<div>QC Batch ID: BZA2180</div>						
Oil and Grease	BZA2180-BLK1	ND	mg/L	5.0	1.7	



Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	<b>Reported:</b> 02/04/2016 11:17 <b>Project:</b> Lehigh NPDES <b>Project Number:</b> [none] <b>Project Manager:</b> George Wegmann
--	--

EPA Method 1664										
Quality Control Report - Laboratory Control Sample										
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
								RPD	Quals	
QC Batch ID: BZA2180										
Oil and Grease	BZA2180-BS1	LCS	38.600	38.600	mg/L	100		78 - 114		

Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## EPA Method 1664

### Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: BZA2180		Used client sample: N									
Oil and Grease	DUP	1532390-49	ND	ND		mg/L				18	
	MS	1532390-49	ND	39.400	38.600	mg/L		102		78 - 114	
	MSD	1532390-49	ND	38.900	38.600	mg/L	1.3	101	18	78 - 114	

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BZA1771</b>						
Total Dissolved Solids @ 180 C	BZA1771-BLK1	ND	mg/L	6.7	6.7	
<b>QC Batch ID: BZA1915</b>						
Total Suspended Solids (Glass Fiber)	BZA1915-BLK1	ND	mg/L	0.50	0.50	

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425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Water Analysis (General Chemistry)

### Quality Control Report - Laboratory Control Sample

								<u>Control Limits</u>		
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab
Quals										
QC Batch ID: BZA1771										
Total Dissolved Solids @ 180 C	BZA1771-BS1	LCS	590.00	586.00	mg/L	101		90 - 110		

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425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

									<u>Control Limits</u>		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
<b>QC Batch ID: BZA1662</b>		Used client sample: Y - Description: EFF-001, 01/19/2016 12:15									
Settleable Solids	DUP	1601916-02	ND	ND		ml/L-hr			10		
<b>QC Batch ID: BZA1771</b>		Used client sample: N									
Total Dissolved Solids @ 180 C	DUP	1601915-01	4360.0	4400.0		mg/L	0.9		10		
<b>QC Batch ID: BZA1915</b>		Used client sample: N									
Total Suspended Solids (Glass Fiber)	DUP	1601805-01	250.67	250.67		mg/L	0		10		

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Metals Analysis

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BZA1632</b>						
Hexavalent Chromium	BZA1632-BLK1	ND	ug/L	0.20	0.034	
<b>QC Batch ID: BZA1976</b>						
Total Recoverable Antimony	BZA1976-BLK1	ND	ug/L	2.0	0.11	
Total Recoverable Arsenic	BZA1976-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Beryllium	BZA1976-BLK1	ND	ug/L	1.0	0.14	
Total Recoverable Cadmium	BZA1976-BLK1	ND	ug/L	1.0	0.11	
Total Recoverable Chromium	BZA1976-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Copper	BZA1976-BLK1	ND	ug/L	2.0	0.22	
Total Recoverable Lead	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Nickel	BZA1976-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Selenium	BZA1976-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Silver	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Thallium	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Zinc	BZA1976-BLK1	ND	ug/L	10	1.7	

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425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Metals Analysis

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZA1632										
Hexavalent Chromium	BZA1632-BS1	LCS	20.468	20.000	ug/L	102		90 - 110		
QC Batch ID: BZA1976										
Total Recoverable Antimony	BZA1976-BS1	LCS	37.560	40.000	ug/L	93.9		85 - 115		
Total Recoverable Arsenic	BZA1976-BS1	LCS	93.153	100.00	ug/L	93.2		85 - 115		
Total Recoverable Beryllium	BZA1976-BS1	LCS	39.018	40.000	ug/L	97.5		85 - 115		
Total Recoverable Cadmium	BZA1976-BS1	LCS	37.332	40.000	ug/L	93.3		85 - 115		
Total Recoverable Chromium	BZA1976-BS1	LCS	40.496	40.000	ug/L	101		85 - 115		
Total Recoverable Copper	BZA1976-BS1	LCS	101.09	100.00	ug/L	101		85 - 115		
Total Recoverable Lead	BZA1976-BS1	LCS	98.932	100.00	ug/L	98.9		85 - 115		
Total Recoverable Nickel	BZA1976-BS1	LCS	98.562	100.00	ug/L	98.6		85 - 115		
Total Recoverable Selenium	BZA1976-BS1	LCS	87.397	100.00	ug/L	87.4		85 - 115		
Total Recoverable Silver	BZA1976-BS1	LCS	38.630	40.000	ug/L	96.6		85 - 115		
Total Recoverable Thallium	BZA1976-BS1	LCS	39.300	40.000	ug/L	98.2		85 - 115		
Total Recoverable Zinc	BZA1976-BS1	LCS	90.802	100.00	ug/L	90.8		85 - 115		

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Metals Analysis

### Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: BZA1632		Used client sample: N									
Hexavalent Chromium	DUP	1601898-01	ND	ND		ug/L			10		
	MS	1601898-01	ND	205.85	202.02	ug/L		102		90 - 110	
	MSD	1601898-01	ND	210.94	202.02	ug/L	2.4	104	10	90 - 110	
QC Batch ID: BZA1976		Used client sample: N									
Total Recoverable Antimony	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	41.310	40.000	ug/L		103		70 - 130	
	MSD	1602085-01	ND	40.002	40.000	ug/L	3.2	100	20	70 - 130	
Total Recoverable Arsenic	DUP	1602085-01	1.2170	1.2360		ug/L	1.5		20		J
	MS	1602085-01	1.2170	112.95	100.00	ug/L		112		70 - 130	
	MSD	1602085-01	1.2170	106.97	100.00	ug/L	5.4	106	20	70 - 130	
Total Recoverable Beryllium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	32.477	40.000	ug/L		81.2		70 - 130	
	MSD	1602085-01	ND	33.655	40.000	ug/L	3.6	84.1	20	70 - 130	
Total Recoverable Cadmium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	38.202	40.000	ug/L		95.5		70 - 130	
	MSD	1602085-01	ND	37.169	40.000	ug/L	2.7	92.9	20	70 - 130	
Total Recoverable Chromium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	35.090	40.000	ug/L		87.7		70 - 130	
	MSD	1602085-01	ND	35.374	40.000	ug/L	0.8	88.4	20	70 - 130	
Total Recoverable Copper	DUP	1602085-01	2.5390	2.5590		ug/L	0.8		20		
	MS	1602085-01	2.5390	92.682	100.00	ug/L		90.1		70 - 130	
	MSD	1602085-01	2.5390	96.660	100.00	ug/L	4.2	94.1	20	70 - 130	
Total Recoverable Lead	DUP	1602085-01	0.10400	ND		ug/L			20		
	MS	1602085-01	0.10400	88.136	100.00	ug/L		88.0		70 - 130	
	MSD	1602085-01	0.10400	94.287	100.00	ug/L	6.7	94.2	20	70 - 130	
Total Recoverable Nickel	DUP	1602085-01	6.9380	7.7960		ug/L	11.6		20		
	MS	1602085-01	6.9380	81.945	100.00	ug/L		75.0		70 - 130	
	MSD	1602085-01	6.9380	87.182	100.00	ug/L	6.2	80.2	20	70 - 130	
Total Recoverable Selenium	DUP	1602085-01	2.0650	2.0840		ug/L	0.9		20		
	MS	1602085-01	2.0650	131.61	100.00	ug/L		130		70 - 130	
	MSD	1602085-01	2.0650	113.36	100.00	ug/L	14.9	111	20	70 - 130	
Total Recoverable Silver	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	36.972	40.000	ug/L		92.4		70 - 130	
	MSD	1602085-01	ND	37.435	40.000	ug/L	1.2	93.6	20	70 - 130	
Total Recoverable Thallium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	35.214	40.000	ug/L		88.0		70 - 130	
	MSD	1602085-01	ND	37.750	40.000	ug/L	7.0	94.4	20	70 - 130	

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Metals Analysis

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		
									RPD	Percent Recovery	Lab Quals
QC Batch ID: BZA1976		Used client sample: N									
Total Recoverable Zinc	DUP	1602085-01	6.2650	6.6680		ug/L	6.2		20		J
	MS	1602085-01	6.2650	100.26	100.00	ug/L		94.0		70 - 130	
	MSD	1602085-01	6.2650	96.422	100.00	ug/L	3.9	90.2	20	70 - 130	

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2218 Railroad Avenue voice 530.243.7234  
Redding, California 96001 fax 530.243.7494

3860 Morrow Lane, Suite F voice 530.894.8966  
Chico, California 95928 fax 530.894.5143

February 02, 2016

**Lab ID: 16A0929**

VANESSA SANDOVAL  
B C LABORATORIES INCORPORATED  
4100 ATLAS COURT  
BAKERSFIELD, CA 93308  
RE: HG 1631 TESTING 1601918

Dear VANESSA SANDOVAL ,

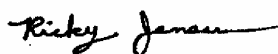
Enclosed are the analysis results for Work Order number 16A0929. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,



For



Ricky D. Jensen  
Laboratory Director

California ELAP Certification Number 1677

Page 1 of 3

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2218 Railroad Avenue voice 530.243.7234  
Redding, California 96001 fax 530.243.74943860 Morrow Lane, Suite F voice 530.894.8966  
Chico, California 95928 fax 530.894.5143

**Report To:** B C LABORATORIES INCORPORATED  
4100 ATLAS COURT  
BAKERSFIELD, CA 93308

**Attention:** VANESSA SANDOVAL

**Project:** HG 1631 TESTING 1601918

**Description:** 1601918-01

**Lab ID:** 16A0929-01

**Lab No:** 16A0929  
**Reported:** 02/02/16  
**Phone:** (661) 327-4911  
**P.O. #**

**Sampled:** 01/18/16 15:50

**Matrix:** Water

**Received Temp (C):** 9.8

**Received:** 01/22/16 12:34

## Metals - Total

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Mercury	ng/l	6.64		0.20	0.50	EPA 1631E	01/26/16	01/26/16	B6A1279

## Quality Control Data

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

## Metals - Total

## Batch B6A1279 - BrCl Digestion

## Blank

Mercury	ND	0.50	ng/l							
---------	----	------	------	--	--	--	--	--	--	--

## Blank

Mercury	0.413	0.50	ng/l							QC-08, J
---------	-------	------	------	--	--	--	--	--	--	----------

## Blank

Mercury	ND	0.50	ng/l							
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## LCS

Mercury	17.6	0.50	ng/l	20.0		87.8	84.1-120			
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## Matrix Spike Source: 16A0688-01

Mercury	27.2	0.50	ng/l	20.0	9.78	87.0	74.3-125			
---------	------	------	------	------	------	------	----------	--	--	--

## Matrix Spike Dup Source: 16A0688-01

Mercury	26.8	0.50	ng/l	20.0	9.78	85.1	74.3-125	1.45	24	
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Approved By

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718

Page 2 of 3

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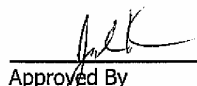
2218 Railroad Avenue voice 530.243.7234  
Redding, California 96001 fax 530.243.74943860 Morrow Lane, Suite F voice 530.894.8966  
Chico, California 95928 fax 530.894.5143

**Report To:** B C LABORATORIES INCORPORATED  
4100 ATLAS COURT  
BAKERSFIELD, CA 93308  
**Attention:** VANESSA SANDOVAL  
**Project:** HG 1631 TESTING 1601918

**Lab No:** 16A0929  
**Reported:** 02/02/16  
**Phone:** (661) 327-4911  
**P.O. #**

### Notes and Definitions

- QC-08 An increased concentration of BrCl was necessary to fully oxidize this sample. As required by EPA 1631E, a laboratory method blank containing the additional BrCl was analyzed with the sample.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is equivalent to the DNQ Estimated Concentration flag.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- < Less than reporting limit
- ≤ Less than or equal to reporting limit
- > Greater than reporting limit
- ≥ Greater than or equal to reporting limit
- MDL Method Detection Limit
- RL/ML Minimum Level of Quantitation
- MCL/AL Maximum Contaminant Level/Action Level
- mg/kg Results reported as wet weight
- TTLCL Total Threshold Limit Concentration
- STLCL Soluble Threshold Limit Concentration
- TCLP Toxicity Characteristic Leachate Procedure
- Note 1 Received Temperature - according to EPA guidelines, samples for most chemistry methods should be held at ≤6 degrees C after collection, including during transportation, unless the time from sampling to delivery is <2 hours. Regulating agencies may invalidate results if temperature requirements are not met.
- Note 2 According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

  
Approved By  
Basic Laboratory, Inc.  
California ELAP Cert #1677 and #2718

Page 3 of 3

**SUBCONTRACT ORDER**

**BC Laboratories**

**1601918**

**SENDING LABORATORY:**

BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308  
Phone: 661-327-4911  
FAX: 661-327-1918  
Project Manager: Vanessa Sandoval

**RECEIVING LABORATORY:**

Basic Laboratory, Inc.  
2218 Railroad Ave.  
Redding, CA 96001  
James E. Hawley  
Phone: (530) 243-7234  
FAX: ---

*16A 0929*  
*Due 2-3-16* **BSCLB**  
**16A0929**  
**1**

Analysis	Due	Expires	Comments
<b>Sample ID: 1601918-01</b>	<b>Water</b>	<b>Sampled: 01/18/16 15:50</b>	<i>9.8°</i>
EPA 1631 - Mercury	02/02/16 17:00	07/17/16 15:50	
Containers supplied:			

<i>Molymore</i>	<i>1/21/16</i>	<i>Thelma</i>	<i>1-22-16</i>	<i>1234</i>
Released By	Date	Received By	Date	
		<i>Thelma</i>	<i>1-22-16</i>	<i>1245</i>
Released By	Date	Received By	Date	

**BSCLB**

Page 1 of 1

Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:17  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Notes And Definitions

J Estimated Value (CLP Flag)  
MDL Method Detection Limit  
ND Analyte Not Detected  
PQL Practical Quantitation Limit

Date of Report: 02/04/2016

George Wegmann

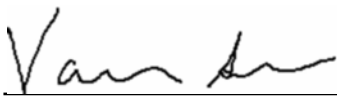
Golder Associates

425 Lakeside Drive  
Sunnyvale, CA 94085

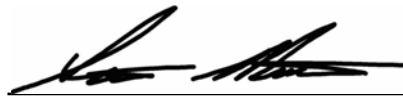
Client Project: [none]  
BCL Project: Lehigh NPDES  
BCL Work Order: 1601917  
Invoice ID: B225800

Enclosed are the results of analyses for samples received by the laboratory on 1/19/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Vanessa Sandoval  
Client Service Rep



Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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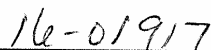
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WO_1601917_SUB_BSCLB.pdf.....	19
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Quotation No.

white: lab copy      yellow: project file

REC. ~~145~~ 1/19/16 USO ~~145~~ 1-19-16 USO



**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1601917 Page 2 of 2

BC LABORATORIES INC.		COOLER RECEIPT FORM		Page	Of						
Submission #: 16-01917											
<b>SHIPPING INFORMATION</b> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		<b>SHIPPING CONTAINER</b> Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		<b>FREE LIQUID</b> YES <input type="checkbox"/> NO <input type="checkbox"/>							
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: PE Thermometer ID: 208		Date/Time 1/19/2017							
		Temperature: (A) 1.6 °C / (C) 1.1 °C		Analyst Init DDP							
<b>SAMPLE CONTAINERS</b>		<b>SAMPLE NUMBERS</b>									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		X48	A13								
4oz / 8oz / 16oz PE UNPRES											
2oz Cr <sup>6</sup>		108	C								
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz			D								
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664		612	E								
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/608/8080											
QT EPA 515.1/8150											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548											
QT EPA 549											
QT EPA 8015M											
QT EPA 8270											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR		X12	F								
SOIL SLEEVE											
CB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
INCORE											
MART KIT											
UMMA CANISTER											
Comments: _____											
Sample Numbering Completed By: DDP Date/Time: 1/19/16 2324 Rev 20 07/24/2015											
= Actual / C = Corrected (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMRECrev 20)											

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1601917-01	<b>COC Number:</b>	---	<b>Receive Date:</b>	01/19/2016 21:50
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	01/19/2016 10:30
	<b>Sampling Location:</b>	EFF-006	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	EFF-006	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	---	<b>Sample Type:</b>	Water

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## EPA Method 1664

<b>BCL Sample ID:</b>	1601917-01	<b>Client Sample Name:</b>	EFF-006, EFF-006, 1/19/2016 10:30:00AM					
<b>Constituent</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Method</b>	<b>MB Bias</b>	<b>Lab Quals</b>	<b>Run #</b>
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

<b>Run #</b>	<b>Method</b>	<b>Prep Date</b>	<b>Run Date/Time</b>	<b>Analyst</b>	<b>Instrument</b>	<b>Dilution</b>	<b>QC Batch ID</b>
1	EPA-1664A HEM	01/25/16	01/25/16 10:00	MAM	MAN-SV	1	BZA2180

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Water Analysis (General Chemistry)

<b>BCL Sample ID:</b>	1601917-01	<b>Client Sample Name:</b>	EFF-006, EFF-006, 1/19/2016 10:30:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Dissolved Solids @ 180 C	1300	mg/L	50	50	SM-2540C	ND		1
Total Suspended Solids (Glass Fiber)	64	mg/L	1.8	1.8	SM-2540D	ND		2
Settleable Solids	ND	ml/L-hr	0.10	0.10	SM-2540F			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540C	01/23/16	01/23/16 13:00	CAD	MANUAL	5	BZA1951
2	SM-2540D	01/26/16	01/26/16 09:20	OJP	MANUAL	3.509	BZA2211
3	SM-2540F	01/20/16	01/20/16 07:30	RT1	MANUAL	1	BZA1662

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Metals Analysis

BCL Sample ID: 1601917-01		Client Sample Name: EFF-006, EFF-006, 1/19/2016 10:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	2.1	ug/L	0.20	0.034	EPA-218.6	ND		1
Total Recoverable Antimony	0.49	ug/L	2.0	0.11	EPA-200.8	ND	J	2
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Beryllium	ND	ug/L	1.0	0.14	EPA-200.8	ND		2
Total Recoverable Cadmium	DNQ 0.78	ug/L	1.0	0.11	EPA-200.8	ND	J	2
Total Recoverable Chromium	11	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Copper	14	ug/L	2.0	0.22	EPA-200.8	ND		2
Total Recoverable Lead	2.2	ug/L	1.0	0.10	EPA-200.8	ND		2
Total Recoverable Nickel	23	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Selenium	17	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Silver	ND	ug/L	1.0	0.10	EPA-200.8	ND		2
Total Recoverable Thallium	0.30	ug/L	1.0	0.10	EPA-200.8	ND	J	2
Total Recoverable Zinc	190	ug/L	10	1.7	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-218.6	01/19/16	01/20/16 02:04	OLH	IC-4	1	BZA1632
2	EPA-200.8	01/25/16	01/25/16 21:40	GPD	PE-EL2	1	BZA1976

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	<b>Reported:</b> 02/04/2016 11:16 <b>Project:</b> Lehigh NPDES <b>Project Number:</b> [none] <b>Project Manager:</b> George Wegmann
--	--

EPA Method 1664						
Quality Control Report - Method Blank Analysis						
Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<div>QC Batch ID: BZA2180</div>						
Oil and Grease	BZA2180-BLK1	ND	mg/L	5.0	1.7	

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	<b>Reported:</b> 02/04/2016 11:16 <b>Project:</b> Lehigh NPDES <b>Project Number:</b> [none] <b>Project Manager:</b> George Wegmann
--	--

EPA Method 1664										
Quality Control Report - Laboratory Control Sample										
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZA2180										
Oil and Grease	BZA2180-BS1	LCS	38.600	38.600	mg/L	100		78 - 114		



Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## EPA Method 1664

### Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: BZA2180		Used client sample: N									
Oil and Grease	DUP	1532390-49	ND	ND		mg/L				18	
	MS	1532390-49	ND	39.400	38.600	mg/L		102		78 - 114	
	MSD	1532390-49	ND	38.900	38.600	mg/L	1.3	101	18	78 - 114	

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BZA1951</b>						
Total Dissolved Solids @ 180 C	BZA1951-BLK1	ND	mg/L	6.7	6.7	
<b>QC Batch ID: BZA2211</b>						
Total Suspended Solids (Glass Fiber)	BZA2211-BLK1	ND	mg/L	0.50	0.50	

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	<b>Reported:</b> 02/04/2016 11:16 <b>Project:</b> Lehigh NPDES <b>Project Number:</b> [none] <b>Project Manager:</b> George Wegmann
--	--

Water Analysis (General Chemistry)										
Quality Control Report - Laboratory Control Sample										
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZA1951										
Total Dissolved Solids @ 180 C	BZA1951-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		

Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

									<u>Control Limits</u>		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
<b>QC Batch ID: BZA1662</b>		Used client sample: Y - Description: EFF-001, 01/19/2016 12:15									
Settleable Solids	DUP	1601916-02	ND	ND		ml/L-hr			10		
<b>QC Batch ID: BZA1951</b>		Used client sample: Y - Description: EFF-006, 01/19/2016 10:30									
Total Dissolved Solids @ 180 C	DUP	1601917-01	1285.0	1275.0		mg/L	0.8		10		
<b>QC Batch ID: BZA2211</b>		Used client sample: N									
Total Suspended Solids (Glass Fiber)	DUP	1601891-01	288.46	288.46		mg/L	0		10		

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Metals Analysis

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BZA1632</b>						
Hexavalent Chromium	BZA1632-BLK1	ND	ug/L	0.20	0.034	
<b>QC Batch ID: BZA1976</b>						
Total Recoverable Antimony	BZA1976-BLK1	ND	ug/L	2.0	0.11	
Total Recoverable Arsenic	BZA1976-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Beryllium	BZA1976-BLK1	ND	ug/L	1.0	0.14	
Total Recoverable Cadmium	BZA1976-BLK1	ND	ug/L	1.0	0.11	
Total Recoverable Chromium	BZA1976-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Copper	BZA1976-BLK1	ND	ug/L	2.0	0.22	
Total Recoverable Lead	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Nickel	BZA1976-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Selenium	BZA1976-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Silver	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Thallium	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Zinc	BZA1976-BLK1	ND	ug/L	10	1.7	

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425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Metals Analysis

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZA1632										
Hexavalent Chromium	BZA1632-BS1	LCS	20.468	20.000	ug/L	102		90 - 110		
QC Batch ID: BZA1976										
Total Recoverable Antimony	BZA1976-BS1	LCS	37.560	40.000	ug/L	93.9		85 - 115		
Total Recoverable Arsenic	BZA1976-BS1	LCS	93.153	100.00	ug/L	93.2		85 - 115		
Total Recoverable Beryllium	BZA1976-BS1	LCS	39.018	40.000	ug/L	97.5		85 - 115		
Total Recoverable Cadmium	BZA1976-BS1	LCS	37.332	40.000	ug/L	93.3		85 - 115		
Total Recoverable Chromium	BZA1976-BS1	LCS	40.496	40.000	ug/L	101		85 - 115		
Total Recoverable Copper	BZA1976-BS1	LCS	101.09	100.00	ug/L	101		85 - 115		
Total Recoverable Lead	BZA1976-BS1	LCS	98.932	100.00	ug/L	98.9		85 - 115		
Total Recoverable Nickel	BZA1976-BS1	LCS	98.562	100.00	ug/L	98.6		85 - 115		
Total Recoverable Selenium	BZA1976-BS1	LCS	87.397	100.00	ug/L	87.4		85 - 115		
Total Recoverable Silver	BZA1976-BS1	LCS	38.630	40.000	ug/L	96.6		85 - 115		
Total Recoverable Thallium	BZA1976-BS1	LCS	39.300	40.000	ug/L	98.2		85 - 115		
Total Recoverable Zinc	BZA1976-BS1	LCS	90.802	100.00	ug/L	90.8		85 - 115		

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**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Metals Analysis

### Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: BZA1632		Used client sample: N									
Hexavalent Chromium	DUP	1601898-01	ND	ND		ug/L			10		
	MS	1601898-01	ND	205.85	202.02	ug/L		102		90 - 110	
	MSD	1601898-01	ND	210.94	202.02	ug/L	2.4	104	10	90 - 110	
QC Batch ID: BZA1976		Used client sample: N									
Total Recoverable Antimony	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	41.310	40.000	ug/L		103		70 - 130	
	MSD	1602085-01	ND	40.002	40.000	ug/L	3.2	100	20	70 - 130	
Total Recoverable Arsenic	DUP	1602085-01	1.2170	1.2360		ug/L	1.5		20		J
	MS	1602085-01	1.2170	112.95	100.00	ug/L		112		70 - 130	
	MSD	1602085-01	1.2170	106.97	100.00	ug/L	5.4	106	20	70 - 130	
Total Recoverable Beryllium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	32.477	40.000	ug/L		81.2		70 - 130	
	MSD	1602085-01	ND	33.655	40.000	ug/L	3.6	84.1	20	70 - 130	
Total Recoverable Cadmium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	38.202	40.000	ug/L		95.5		70 - 130	
	MSD	1602085-01	ND	37.169	40.000	ug/L	2.7	92.9	20	70 - 130	
Total Recoverable Chromium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	35.090	40.000	ug/L		87.7		70 - 130	
	MSD	1602085-01	ND	35.374	40.000	ug/L	0.8	88.4	20	70 - 130	
Total Recoverable Copper	DUP	1602085-01	2.5390	2.5590		ug/L	0.8		20		
	MS	1602085-01	2.5390	92.682	100.00	ug/L		90.1		70 - 130	
	MSD	1602085-01	2.5390	96.660	100.00	ug/L	4.2	94.1	20	70 - 130	
Total Recoverable Lead	DUP	1602085-01	0.10400	ND		ug/L			20		
	MS	1602085-01	0.10400	88.136	100.00	ug/L		88.0		70 - 130	
	MSD	1602085-01	0.10400	94.287	100.00	ug/L	6.7	94.2	20	70 - 130	
Total Recoverable Nickel	DUP	1602085-01	6.9380	7.7960		ug/L	11.6		20		
	MS	1602085-01	6.9380	81.945	100.00	ug/L		75.0		70 - 130	
	MSD	1602085-01	6.9380	87.182	100.00	ug/L	6.2	80.2	20	70 - 130	
Total Recoverable Selenium	DUP	1602085-01	2.0650	2.0840		ug/L	0.9		20		
	MS	1602085-01	2.0650	131.61	100.00	ug/L		130		70 - 130	
	MSD	1602085-01	2.0650	113.36	100.00	ug/L	14.9	111	20	70 - 130	
Total Recoverable Silver	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	36.972	40.000	ug/L		92.4		70 - 130	
	MSD	1602085-01	ND	37.435	40.000	ug/L	1.2	93.6	20	70 - 130	
Total Recoverable Thallium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	35.214	40.000	ug/L		88.0		70 - 130	
	MSD	1602085-01	ND	37.750	40.000	ug/L	7.0	94.4	20	70 - 130	

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

## Metals Analysis

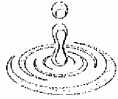
### Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: BZA1976		Used client sample: N									
Total Recoverable Zinc	DUP	1602085-01	6.2650	6.6680		ug/L	6.2		20		J
	MS	1602085-01	6.2650	100.26	100.00	ug/L		94.0		70 - 130	
	MSD	1602085-01	6.2650	96.422	100.00	ug/L	3.9	90.2	20	70 - 130	

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basic  
laboratory

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2218 Railroad Avenue  
Redding, California 96001voice 530.243.7234  
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Chico, California 95928voice 530.894.8966  
fax 530.894.5143

February 02, 2016

**Lab ID: 16A0930**VANESSA SANDOVAL  
B C LABORATORIES INCORPORATED  
4100 ATLAS COURT  
BAKERSFIELD, CA 93308  
RE: HG 1631 TESTING 1601917

Dear VANESSA SANDOVAL ,

Enclosed are the analysis results for Work Order number 16A0930. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

For

Ricky D. Jensen  
Laboratory Director

California ELAP Certification Number 1677

basic  
laboratory

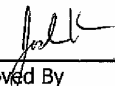
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2218 Railroad Avenue voice 530.243.7234  
Redding, California 96001 fax 530.243.74943860 Morrow Lane, Suite F voice 530.894.8966  
Chico, California 95928 fax 530.894.5143**Report To:** B C LABORATORIES INCORPORATED  
4100 ATLAS COURT  
BAKERSFIELD, CA 93308**Attention:** VANESSA SANDOVAL  
**Project:** HG 1631 TESTING 1601917**Description:** 1601917-01**Lab ID:** 16A0930-01**Sampled:** 01/19/16 10:30**Lab No:** 16A0930  
**Reported:** 02/02/16  
**Phone:** (661) 327-4911  
**P.O. #****Matrix:** Water**Received Temp (C):** 7.4**Received:** 01/22/16 12:35**Metals - Total**

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
Mercury	ng/l	16.8	QC-08, R-08	1.00	2.30	EPA 1631E	01/26/16	01/26/16	B6A1279

## Quality Control Data

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Metals - Total</b>										
<b>Batch B6A1279 - BrCl Digestion</b>										
<b>Blank</b>										
Mercury	ND	0.50	ng/l							
<b>Blank</b>										
Mercury	0.413	0.50	ng/l							QC-08, J
<b>Blank</b>										
Mercury	ND	0.50	ng/l							
<b>LCS</b>										
Mercury	17.6	0.50	ng/l	20.0		87.8	84.1-120			
<b>Matrix Spike Source: 16A0688-01</b>										
Mercury	27.2	0.50	ng/l	20.0	9.78	87.0	74.3-125			
<b>Matrix Spike Dup Source: 16A0688-01</b>										
Mercury	26.8	0.50	ng/l	20.0	9.78	85.1	74.3-125	1.45	24	

  
 Approved By  
 Basic Laboratory, Inc.  
 California ELAP Cert #1677 and #2718

Page 2 of 3

basic  
laboratory

www.basiclab.com

2218 Railroad Avenue  
Redding, California 96001voice 530.243.7234  
fax 530.243.74943860 Morrow Lane, Suite F  
Chico, California 95928voice 530.894.8966  
fax 530.894.5143

**Report To:** B C LABORATORIES INCORPORATED  
4100 ATLAS COURT  
BAKERSFIELD, CA 93308

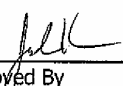
**Attention:** VANESSA SANDOVAL

**Project:** HG 1631 TESTING 1601917

**Lab No:** 16A0930  
**Reported:** 02/02/16  
**Phone:** (661) 327-4911  
**P.O. #**

## Notes and Definitions

- R-08 The sample was diluted due to sample matrix resulting in elevated reporting limits.
- QC-08 An increased concentration of BrCl was necessary to fully oxidize this sample. As required by EPA 1631E, a laboratory method blank containing the additional BrCl was analyzed with the sample.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is equivalent to the DNQ Estimated Concentration flag.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- < Less than reporting limit
- ≤ Less than or equal to reporting limit
- > Greater than reporting limit
- ≥ Greater than or equal to reporting limit
- MDL Method Detection Limit
- RL/ML Minimum Level of Quantitation
- MCL/AL Maximum Contaminant Level/Action Level
- mg/kg Results reported as wet weight
- TTLC Total Threshold Limit Concentration
- STLC Soluble Threshold Limit Concentration
- TCLP Toxicity Characteristic Leachate Procedure
- Note 1: Received Temperature - according to EPA guidelines, samples for most chemistry methods should be held at ≤6 degrees C after collection, including during transportation, unless the time from sampling to delivery is <2 hours. Regulating agencies may invalidate results if temperature requirements are not met.
- Note 2: According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

  
 Approved By

 Basic Laboratory, Inc.  
 California ELAP Cert #1677 and #2718

Page 3 of 3

**SUBCONTRACT ORDER**

**BC Laboratories**

**1601917**

**SENDING LABORATORY:**

BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308  
Phone: 661-327-4911  
FAX: 661-327-1918  
Project Manager: Vanessa Sandoval

**RECEIVING LABORATORY:**

Basic Laboratory, Inc.  
2218 Railroad Ave.  
Redding, CA 96001  
James E. Hawley  
Phone: (530) 243-7234  
FAX: ---

*16A0930*  
*DW 2-3-16* **BSCLB**

Analysis	Due	Expires	Comments
<b>Sample ID: 1601917-01</b>	<b>Water</b>	<b>Sampled: 01/19/16 10:30</b>	<i>7.4°</i>
EPA 1631 - Mercury	02/02/16 17:00	07/18/16 10:30	
Containers supplied:			

<i>Molly Meyers</i>	<i>1/21/16</i>	<i>T. Wedelmann</i>	<i>1-22-16</i>	<i>1235</i>
Released By	Date	Received By	Date	
		<i>T. Wedelmann</i>	<i>1-22-16</i>	<i>1247</i>
Released By	Date	Received By	Date	

**BSCLB**

Page 1 of 1

Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16  
**Project:** Lehigh NPDES  
**Project Number:** [none]  
**Project Manager:** George Wegmann

### Notes And Definitions

J Estimated Value (CLP Flag)  
MDL Method Detection Limit  
ND Analyte Not Detected  
PQL Practical Quantitation Limit

Date of Report: 02/03/2016

George Wegmann

Golder Associates

425 Lakeside Drive  
Sunnyvale, CA 94085

Client Project: 063-7109-922 Ph 006

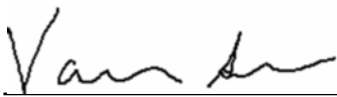
BCL Project: Lehigh Pond

BCL Work Order: 1603044

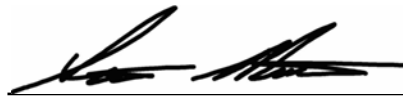
Invoice ID: B225643

Enclosed are the results of analyses for samples received by the laboratory on 2/1/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Vanessa Sandoval  
Client Service Rep



Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Environmental Testing Laboratory Since 1949

*[Handwritten signature]*

Quotation No. \_\_\_\_\_



# Golder Associates CHAIN OF CUSTODY

16-03044

PROJECT NO.: 063-7109-922 Ph 006		SITE NAME: Lehigh Pond 30		ANALYSES  <i>Se</i>				EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
SAMPLER(S): David Walter (printed) David C. Walt (signature)		CONTRACT LABORATORY: BC Labs						Container Info		EDF required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
TURN-AROUND TIME: 24 Hr																
Sample I.D.	Lab I.D.	Collection Date Time		Matrix	Depth	Type/Vol. Filter Preserv.	Cont. Qty.	Remarks								
EFF-006	1	1-29-16	1015	W		500ml N HNO3	1									
EFF-006	2	2-1-16	1015	W			1									
<div style="text-align: right;"><div>CHK BY <input checked="" type="checkbox"/> <i>MA</i></div><div>DISTRIBUTION <input checked="" type="checkbox"/> <i>MA</i> <input checked="" type="checkbox"/> <i>MA</i> SUB-OUT <input type="checkbox"/></div></div>																
									Relinquished by: (signature) <i>David C. Walt</i>		Received by: (signature) <i>[Signature]</i>		Date/Time: 2/1/16 1305		SEND RESULTS TO:	
									Relinquished by: (signature) <i>[Signature]</i>		Received by: (signature) <i>Harry Bogen</i>		Date/Time: 2-1-16 1401		Attn: George Wegmann, Sam Barker #	
									Relinquished by: (signature) <i>Harry Bogen</i>		Received by: (signature) <i>[Signature]</i>		Date/Time: 2/1/16 1836		Golder Associates Inc.	
									white: lab copy		yellow: project file		2/1/16 2140		425 Lakeside Drive	
									R6C		HUS		2/1/16 2140		Sunnyvale, CA 94085	
															Phone (408) 220-9223	
															Fax (408) 220-9224	

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**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

**Chain of Custody and Cooler Receipt Form for 1603044 Page 2 of 2**

BC LABORATORIES INC.		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>							
Submission #: <u>16-03044</u>											
<b>SHIPPING INFORMATION</b> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			<b>SHIPPING CONTAINER</b> Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		<b>FREE LIQUID</b> YES <input type="checkbox"/> NO <input type="checkbox"/>						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
<b>COC Received</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>VOCS</u> Thermometer ID: <u>200</u> Temperature: (A) <u>1.0</u> °C / (C) <u>0.6</u> °C		Date/Time <u>2-11-10</u> <u>2150</u> Analyst Init <u>M</u>							
<b>SAMPLE CONTAINERS</b>		<b>SAMPLE NUMBERS</b>									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr <sup>6+</sup>											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		<u>A</u>	<u>A</u>								
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/608/8080											
QT EPA 515.1/8150											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548											
QT EPA 549											
QT EPA 8015M											
QT EPA 8270											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											

Comments:

Sample Numbering Completed By: \_\_\_\_\_

A = Actual / C = Corrected

Date/Time: 2-11-10 2300

Rev 20 07/24/2015

IS:\WPDoc\WordPerfect\LAB\_DOC\IFORMS\ISAMRECrev 20\

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/03/2016 9:42  
**Project:** Lehigh Pond  
**Project Number:** 063-7109-922 Ph 006  
**Project Manager:** George Wegmann

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1603044-01	<b>COC Number:</b>	---	<b>Receive Date:</b>	02/01/2016 21:40
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	01/29/2016 10:15
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	EFF-006	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	David Walter	<b>Sample Type:</b>	Water
1603044-02	<b>COC Number:</b>	---	<b>Receive Date:</b>	02/01/2016 21:40
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	02/01/2016 10:15
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	EFF-006	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	David Walter	<b>Sample Type:</b>	Water

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/03/2016 9:42  
**Project:** Lehigh Pond  
**Project Number:** 063-7109-922 Ph 006  
**Project Manager:** George Wegmann

## Metals Analysis

<b>BCL Sample ID:</b>	1603044-01	<b>Client Sample Name:</b>	EFF-006, 1/29/2016 10:15:00AM, David Walter					
<b>Constituent</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Method</b>	<b>MB Bias</b>	<b>Lab Quals</b>	<b>Run #</b>
Total Recoverable Selenium	57	ug/L	2.0	0.19	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	02/02/16	02/02/16 16:18	GPD	PE-EL2	1	BZB0152

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/03/2016 9:42  
**Project:** Lehigh Pond  
**Project Number:** 063-7109-922 Ph 006  
**Project Manager:** George Wegmann

## Metals Analysis

<b>BCL Sample ID:</b>	1603044-02	<b>Client Sample Name:</b>	EFF-006, 2/1/2016 10:15:00AM, David Walter					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Selenium	55	ug/L	2.0	0.19	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	02/02/16	02/02/16 14:24	GPD	PE-EL2	1	BZB0140

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	<b>Reported:</b> 02/03/2016 9:42 <b>Project:</b> Lehigh Pond <b>Project Number:</b> 063-7109-922 Ph 006 <b>Project Manager:</b> George Wegmann
--	---

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BZB0140</b>						
Total Recoverable Selenium	BZB0140-BLK1	ND	ug/L	2.0	0.19	
<b>QC Batch ID: BZB0152</b>						
Total Recoverable Selenium	BZB0152-BLK1	ND	ug/L	2.0	0.19	

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	<b>Reported:</b> 02/03/2016 9:42 <b>Project:</b> Lehigh Pond <b>Project Number:</b> 063-7109-922 Ph 006 <b>Project Manager:</b> George Wegmann
--	---

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZB0140										
Total Recoverable Selenium	BZB0140-BS1	LCS	99.139	100.00	ug/L	99.1		85 - 115		
QC Batch ID: BZB0152										
Total Recoverable Selenium	BZB0152-BS1	LCS	87.622	100.00	ug/L	87.6		85 - 115		

Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/03/2016 9:42  
**Project:** Lehigh Pond  
**Project Number:** 063-7109-922 Ph 006  
**Project Manager:** George Wegmann

## Metals Analysis

### Quality Control Report - Precision & Accuracy

										<u>Control Limits</u>	
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
<b>QC Batch ID: BZB0140</b>		Used client sample: N									
Total Recoverable Selenium	DUP	1602787-02	17.728	18.842		ug/L	6.1		20		
	MS	1602787-02	17.728	118.36	100.00	ug/L		101		70 - 130	
	MSD	1602787-02	17.728	128.70	100.00	ug/L	8.4	111	20	70 - 130	
<b>QC Batch ID: BZB0152</b>		Used client sample: N									
Total Recoverable Selenium	DUP	1602782-02	ND	ND		ug/L			20		
	MS	1602782-02	ND	93.643	100.00	ug/L		93.6		70 - 130	
	MSD	1602782-02	ND	88.298	100.00	ug/L	5.9	88.3	20	70 - 130	

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Golder Associates  
425 Lakeside Drive  
Sunnyvale, CA 94085

**Reported:** 02/03/2016 9:42  
**Project:** Lehigh Pond  
**Project Number:** 063-7109-922 Ph 006  
**Project Manager:** George Wegmann

#### Notes And Definitions

MDL Method Detection Limit  
ND Analyte Not Detected  
PQL Practical Quantitation Limit