



Date of Report: 05/04/2020

Ray Tackaberry

Adobe Springs

P.O. Box 1417

Patterson, CA 95363

Client Project: Title 21

BCL Project: Title 21 Source

BCL Work Order: 2009725

Invoice ID: B379097

Enclosed are the results of analyses for samples received by the laboratory on 4/2/2020. 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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## Executive Summary - MCL Exceedances

Constituent	Result	PQL	MCL	Units	Method	Lab Quals
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No exceedances found



Chain of Custody

4100 Atlas Court Bakersfield, Ca. 93308  
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC LABORATORIES

TEMP: 20-09725

Client/Company Name: Adobe Springs  
Report Attention: Paul Mason  
City: Patterson State: CA Zip: 95363  
Phone: (408) 897-3046 FAX: \*  
E-mail: adobesprings@gmail.com

Address: P.O. Box 1417  
Project Information: Title 21  
How would you like your completed results sent?  E-Mail  Fax  EDD  Mail Only

Carbon Copies:  CDRES  Fresno Co  EPA  Merced Co  Tulare Co

Regulatory Compliance Electronic Data Transfer:  Y  N

Sampler Name Printed / Signature: Mark Ellis / Mark Ellis  
Matrix Types: RGW - Raw Surface Water CFW - Chlorinated Finished Water BW - Bottled Water  
RW - Raw Ground Water FW - Finished Water WW - Waste Water SW - Storm Water DW - Drinking Water SO - Solid

QC Request:  Level II  Level I  STD  5 Day  2 Day  Day

Result Request:  Surcharge

Sample # Batches Date Time Sample Description / Location Matrix \*  
-1 11/20/00 Adobe Springs  
-2 11/15 Creek Sample

Comments / Station Code: Title 21 Group Test

Received by: (Signature and Printed Name) [Signature] Company BCL  
Received by: (Signature and Printed Name) [Signature] Company BCL  
Received for Lab by: (Signature and Printed Name) [Signature] Company BCL

Time 12:05 Date 11/20/00  
Time 12:30 Date 11/20/00

Payment Received at Delivery: DML 4/2/20 930

Shipping Method: CAO UPS GSO WALK-IN SVC FEDEX OTHER  
Cooling Method: WET BLUE NONE

Check/Order/Card PIA #  
Date Amount

581-01001 (MAY 06)

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 1

Submission #: 20-09725

SHIPPING INFORMATION: Fed Ex  UPS  Ontrac  Hand Delivery  BC Lab Field Service  Other  (Specify) Geo

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID YES  NO  W / S \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Intact? Yes  No  Intact? Yes  No  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received YES  NO  Emissivity: 0.47 Container PE Thermometer ID: 274 Date/Time: 4/2/20

Temperature: (A) 0.5 °C / (C) 0.7 °C Analyst Init: MLL 930

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	<u>K</u>	<u>A</u>								
4oz / 8oz / 16oz PE UNPRES										
2oz Cr*										
QT INORGANIC CHEMICAL METALS <u>W08</u>	<u>L</u>	<u>M</u>	<u>N</u>							
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	<u>P</u>									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS	<u>Q</u>	<u>R</u>								
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	<u>A</u>	<u>C</u>								
QT EPA 1664										
PT ODOR	<u>S</u>									
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504		<u>D</u>	<u>F</u>							
QT EPA 503/508/5080	<u>020</u>	<u>T</u>								
QT EPA 515/51510	<u>024</u>	<u>U</u>								
QT EPA 525	<u>028</u>	<u>V</u>								
QT EPA 525 TRAVEL BLANK										
40ml EPA 547	<u>034</u>	<u>G</u>								
40ml EPA 531.1	<u>032</u>	<u>H</u>								
8oz EPA 548		<u>W</u>								
QT EPA 549		<u>X</u>								
QT EPA 5915M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER		<u>Y</u>	<u>Z</u>							
8oz / 16oz / 32oz TAP	<u>X24</u>	<u>AA</u>								
SOIL SLEEVE	<u>HMS</u>	<u>AB</u>								
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: No date or time on bottles

Sample Numbering Completed By: VFA Date/Time: 4-2-20 10:34

= Actual / C = Corrected

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Adobe Springs  
P.O. Box 1417  
Patterson, CA 95363

**Reported:** 05/04/2020 16:47  
**Project:** Title 21 Source  
**Project Number:** Title 21  
**Project Manager:** Ray Tackaberry

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2009725-01	<b>COC Number:</b>	---	<b>Receive Date:</b> 04/02/2020 09:30
	<b>Project Number:</b>	---	<b>Sampling Date:</b> 04/01/2020 10:00
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b>	Adobe Springs	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b>	Mark Ellis	<b>Sample Type:</b> Drinking Water
2009725-02	<b>COC Number:</b>	---	<b>Receive Date:</b> 04/02/2020 09:30
	<b>Project Number:</b>	---	<b>Sampling Date:</b> 04/01/2020 10:15
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b>	Creek Sample	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b>	Mark Ellis	<b>Sample Type:</b> Drinking Water

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Adobe Springs P.O. Box 1417 Patterson, CA 95363	<b>Reported:</b> 05/04/2020 16:47 <b>Project:</b> Title 21 Source <b>Project Number:</b> Title 21 <b>Project Manager:</b> Ray Tackaberry
---	---

<b>BCL Sample ID:</b> 2009725-01	<b>Client Sample Name:</b> Adobe Springs, 4/1/2020 10:00:00AM, Mark Ellis
----------------------------------	---

Constituent	Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
<b>Inorganics</b>									
Chloride	EPA-300.0	5.0	mg/L	1	0.50	250	04/02/20	04/02/20 21:38	
Fluoride	EPA-300.0	ND	mg/L	1	0.050	2.0	04/02/20	04/02/20 21:38	
Nitrate as N	EPA-300.0	0.74	mg/L	1	0.10	10	04/02/20	04/02/20 21:38	
Sulfate	EPA-300.0	15	mg/L	1	1.0	250	04/02/20	04/02/20 21:38	
Nitrate + Nitrite as N	Calc	0.74	mg/L	1	0.10	10	04/03/20	04/17/20 10:02	
Turbidity	EPA-180.1	ND	NT Units	1	0.10	5	04/03/20	04/03/20 08:00	
Nitrite as N	EPA-353.2	ND	mg/L	1	0.050	1	04/03/20	04/03/20 09:03	
Perchlorate	EPA-314.0	ND	ug/L	1	4.0	n/a	04/13/20	04/13/20 16:13	
<b>Metals</b>									
Total Recoverable Aluminum	EPA-200.7	ND	mg/L	1	0.050	0.2	04/03/20	04/06/20 09:35	
Total Recoverable Antimony	EPA-200.8	ND	mg/L	1	0.0020	0.006	04/03/20	04/03/20 17:57	
Total Recoverable Arsenic	EPA-200.8	ND	mg/L	1	0.0020	0.010	04/03/20	04/03/20 17:57	
Total Recoverable Barium	EPA-200.7	0.012	mg/L	1	0.010	2	04/03/20	04/06/20 09:35	
Total Recoverable Beryllium	EPA-200.8	ND	mg/L	1	0.0010	0.004	04/03/20	04/03/20 17:57	
Total Recoverable Cadmium	EPA-200.8	ND	mg/L	1	0.0010	0.005	04/03/20	04/03/20 17:57	
Total Recoverable Chromium	EPA-200.7	ND	mg/L	1	0.010	0.1	04/03/20	04/06/20 09:35	
Total Recoverable Copper	EPA-200.7	ND	mg/L	1	0.010	1.0	04/03/20	04/07/20 12:16	
Total Recoverable Iron	EPA-200.7	ND	mg/L	1	0.050	0.3	04/03/20	04/06/20 09:35	
Total Recoverable Lead	EPA-200.8	ND	mg/L	1	0.0010	0.005	04/03/20	04/03/20 17:57	
Total Recoverable Manganese	EPA-200.7	ND	mg/L	1	0.010	0.05	04/03/20	04/06/20 09:35	
Total Recoverable Mercury	EPA-245.1	ND	ug/L	1	0.20	2	04/06/20	04/06/20 13:07	
Total Recoverable Nickel	EPA-200.7	ND	mg/L	1	0.010	0.1	04/03/20	04/06/20 09:35	
Total Recoverable Selenium	EPA-200.8	ND	mg/L	1	0.0020	0.05	04/03/20	04/03/20 17:57	
Total Recoverable Silver	EPA-200.7	ND	mg/L	1	0.010	0.1	04/03/20	04/07/20 12:16	
Total Recoverable Thallium	EPA-200.8	ND	mg/L	1	0.0010	0.002	04/03/20	04/03/20 17:57	
Total Recoverable Zinc	EPA-200.7	ND	mg/L	1	0.050	5.0	04/03/20	04/06/20 09:35	
<b>Organics</b>									
1,2-Dibromo-3-chloropropane	EPA-504.1	ND	ug/L	0.932	0.010	0.2	04/07/20	04/07/20 18:20	
Ethylene dibromide	EPA-504.1	ND	ug/L	0.932	0.010	0.05	04/07/20	04/07/20 18:20	
Aldrin	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	
alpha-BHC	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	
beta-BHC	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	
delta-BHC	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	

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BCL Sample ID: 2009725-01		Client Sample Name: Adobe Springs, 4/1/2020 10:00:00AM, Mark Ellis							
Constituent	Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
<b>Organics</b>									
gamma-BHC (Lindane)	EPA-508	ND	ug/L	1	0.0050	0.2	04/08/20	04/09/20 18:57	
Chlordane (Technical)	EPA-508	ND	ug/L	1	0.10	2	04/08/20	04/09/20 18:57	
4,4'-DDD	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	
4,4'-DDE	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	
4,4'-DDT	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	
Dieldrin	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	
Endosulfan I	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	
Endosulfan II	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	
Endosulfan sulfate	EPA-508	ND	ug/L	1	0.0050	n/a	04/08/20	04/09/20 18:57	
Endrin	EPA-508	ND	ug/L	1	0.0050	2	04/08/20	04/09/20 18:57	
Endrin aldehyde	EPA-508	ND	ug/L	1	0.010	n/a	04/08/20	04/09/20 18:57	
Heptachlor	EPA-508	ND	ug/L	1	0.0050	0.4	04/08/20	04/09/20 18:57	
Heptachlor epoxide	EPA-508	ND	ug/L	1	0.0050	0.2	04/08/20	04/09/20 18:57	
Methoxychlor	EPA-508	ND	ug/L	1	0.0050	40	04/08/20	04/09/20 18:57	
Toxaphene	EPA-508	ND	ug/L	1	1.0	3	04/08/20	04/09/20 18:57	
PCB-1016	EPA-508	ND	ug/L	1	0.20	n/a	04/08/20	04/09/20 18:57	
PCB-1221	EPA-508	ND	ug/L	1	0.20	n/a	04/08/20	04/09/20 18:57	
PCB-1232	EPA-508	ND	ug/L	1	0.20	n/a	04/08/20	04/09/20 18:57	
PCB-1242	EPA-508	ND	ug/L	1	0.20	n/a	04/08/20	04/09/20 18:57	
PCB-1248	EPA-508	ND	ug/L	1	0.20	n/a	04/08/20	04/09/20 18:57	
PCB-1254	EPA-508	ND	ug/L	1	0.20	n/a	04/08/20	04/09/20 18:57	
PCB-1260	EPA-508	ND	ug/L	1	0.20	n/a	04/08/20	04/09/20 18:57	
Total PCB's (Summation)	EPA-508	ND	ug/L	1	0.20	0.5	04/08/20	04/09/20 18:57	
TCMX (Surrogate)	EPA-508	75.3	%	1	60 - 130 (LCL - UCL)		04/08/20	04/09/20 18:57	
Bentazon	EPA-515.1	ND	ug/L	1.010	0.80	n/a	04/07/20	04/09/20 12:51	
2,4-D	EPA-515.1	ND	ug/L	1.010	0.40	70	04/07/20	04/09/20 12:51	
Dalapon	EPA-515.1	ND	ug/L	1.010	5.0	200	04/07/20	04/09/20 12:51	
Dinoseb	EPA-515.1	ND	ug/L	1.010	0.20	7	04/07/20	04/09/20 12:51	
2,4,5-TP (Silvex)	EPA-515.1	ND	ug/L	1.010	0.070	50	04/07/20	04/09/20 12:51	
2,4-Dichlorophenylacetic acid (Surrogate)	EPA-515.1	72.0	%	1.010	40 - 120 (LCL - UCL)		04/07/20	04/09/20 12:51	
Benzene	EPA-524.2	ND	ug/L	1	0.50	5	04/06/20	04/06/20 07:46	
Bromobenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46	
Bromochloromethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46	
Bromodichloromethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46	
Bromoform	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46	

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---	---

BCL Sample ID:	2009725-01	Client Sample Name:	Adobe Springs, 4/1/2020 10:00:00AM, Mark Ellis							
Constituent	Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals	
<b>Organics</b>										
Bromomethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46	V11	
n-Butylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
sec-Butylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
tert-Butylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Carbon tetrachloride	EPA-524.2	ND	ug/L	1	0.50	5	04/06/20	04/06/20 07:46		
Chlorobenzene	EPA-524.2	ND	ug/L	1	0.50	100	04/06/20	04/06/20 07:46		
Chloroethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Chloroform	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Chloromethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
2-Chlorotoluene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
4-Chlorotoluene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Dibromochloromethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,2-Dibromo-3-chloropropane	EPA-524.2	ND	ug/L	1	1.0	0.2	04/06/20	04/06/20 07:46		
1,2-Dibromoethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Dibromomethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,2-Dichlorobenzene	EPA-524.2	ND	ug/L	1	0.50	600	04/06/20	04/06/20 07:46		
1,3-Dichlorobenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,4-Dichlorobenzene	EPA-524.2	ND	ug/L	1	0.50	75	04/06/20	04/06/20 07:46		
Dichlorodifluoromethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,1-Dichloroethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,2-Dichloroethane	EPA-524.2	ND	ug/L	1	0.50	5	04/06/20	04/06/20 07:46		
1,1-Dichloroethene	EPA-524.2	ND	ug/L	1	0.50	7	04/06/20	04/06/20 07:46		
cis-1,2-Dichloroethene	EPA-524.2	ND	ug/L	1	0.50	70	04/06/20	04/06/20 07:46		
trans-1,2-Dichloroethene	EPA-524.2	ND	ug/L	1	0.50	100	04/06/20	04/06/20 07:46		
1,2-Dichloropropane	EPA-524.2	ND	ug/L	1	0.50	5	04/06/20	04/06/20 07:46		
1,3-Dichloropropane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
2,2-Dichloropropane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,1-Dichloropropene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
cis-1,3-Dichloropropene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
trans-1,3-Dichloropropene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Total 1,3-Dichloropropene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Ethylbenzene	EPA-524.2	ND	ug/L	1	0.50	700	04/06/20	04/06/20 07:46		
Hexachlorobutadiene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Isopropylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
p-Isopropyltoluene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		

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BCL Sample ID:	2009725-01	Client Sample Name:	Adobe Springs, 4/1/2020 10:00:00AM, Mark Ellis							
Constituent	Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals	
<b>Organics</b>										
Methylene chloride	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Methyl t-butyl ether	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Naphthalene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
n-Propylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Styrene	EPA-524.2	ND	ug/L	1	0.50	100	04/06/20	04/06/20 07:46		
1,1,1,2-Tetrachloroethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,1,2,2-Tetrachloroethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Tetrachloroethene	EPA-524.2	ND	ug/L	1	0.50	5	04/06/20	04/06/20 07:46		
Toluene	EPA-524.2	ND	ug/L	1	0.50	1000	04/06/20	04/06/20 07:46		
1,2,3-Trichlorobenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,2,4-Trichlorobenzene	EPA-524.2	ND	ug/L	1	0.50	70	04/06/20	04/06/20 07:46		
1,1,1-Trichloroethane	EPA-524.2	ND	ug/L	1	0.50	200	04/06/20	04/06/20 07:46		
1,1,2-Trichloroethane	EPA-524.2	ND	ug/L	1	0.50	5	04/06/20	04/06/20 07:46		
Trichloroethene	EPA-524.2	ND	ug/L	1	0.50	5	04/06/20	04/06/20 07:46		
Trichlorofluoromethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,2,3-Trichloropropane	EPA-524.2	ND	ug/L	1	1.0	n/a	04/06/20	04/06/20 07:46		
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,2,4-Trimethylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,3,5-Trimethylbenzene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
Vinyl chloride	EPA-524.2	ND	ug/L	1	0.50	2	04/06/20	04/06/20 07:46		
Total Xylenes	EPA-524.2	ND	ug/L	1	0.50	10000	04/06/20	04/06/20 07:46		
Total Trihalomethanes	EPA-524.2	ND	ug/L	1	2.0	10	04/06/20	04/06/20 07:46		
t-Amyl Methyl ether	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
t-Butyl alcohol	EPA-524.2	ND	ug/L	1	10	n/a	04/06/20	04/06/20 07:46		
Ethyl t-butyl ether	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
p- & m-Xylenes	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
o-Xylene	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46		
1,2-Dichloroethane-d4 (Surrogate)	EPA-524.2	104	%	1	75 - 125 (LCL - UCL)		04/06/20	04/06/20 07:46		
Toluene-d8 (Surrogate)	EPA-524.2	94.4	%	1	80 - 120 (LCL - UCL)		04/06/20	04/06/20 07:46		
4-Bromofluorobenzene (Surrogate)	EPA-524.2	102	%	1	80 - 120 (LCL - UCL)		04/06/20	04/06/20 07:46		
Acenaphthylene	EPA-525.2	ND	ug/L	1	0.10	n/a	04/13/20	04/15/20 16:22		
Alachlor	EPA-525.2	ND	ug/L	1	0.20	2	04/13/20	04/15/20 16:22		
Anthracene	EPA-525.2	ND	ug/L	1	0.10	n/a	04/13/20	04/15/20 16:22		
Atraton	EPA-525.2	ND	ug/L	1	0.50	n/a	04/13/20	04/15/20 16:22		
Atrazine	EPA-525.2	ND	ug/L	1	0.30	3	04/13/20	04/15/20 16:22		

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Adobe Springs  
P.O. Box 1417  
Patterson, CA 95363

Reported: 05/04/2020 16:47  
Project: Title 21 Source  
Project Number: Title 21  
Project Manager: Ray Tackaberry

<b>BCL Sample ID:</b> 2009725-01	<b>Client Sample Name:</b> Adobe Springs, 4/1/2020 10:00:00AM, Mark Ellis
----------------------------------	---

Constituent	Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
<b>Organics</b>									
Benzo[a]anthracene	EPA-525.2	ND	ug/L	1	0.20	n/a	04/13/20	04/15/20 16:22	
Benzo[b]fluoranthene	EPA-525.2	ND	ug/L	1	0.30	n/a	04/13/20	04/15/20 16:22	
Benzo[k]fluoranthene	EPA-525.2	ND	ug/L	1	0.30	n/a	04/13/20	04/15/20 16:22	
Benzo[a]pyrene	EPA-525.2	ND	ug/L	1	0.10	0.2	04/13/20	04/15/20 16:22	
Benzo[g,h,i]perylene	EPA-525.2	ND	ug/L	1	0.30	n/a	04/13/20	04/15/20 16:22	
Benzyl butyl phthalate	EPA-525.2	ND	ug/L	1	4.0	n/a	04/13/20	04/15/20 16:22	
delta-BHC	EPA-525.2	ND	ug/L	1	0.20	n/a	04/13/20	04/15/20 16:22	
gamma-BHC (Lindane)	EPA-525.2	ND	ug/L	1	0.20	0.2	04/13/20	04/15/20 16:22	
Bromacil	EPA-525.2	ND	ug/L	1	0.50	n/a	04/13/20	04/15/20 16:22	
Chrysene	EPA-525.2	ND	ug/L	1	0.30	n/a	04/13/20	04/15/20 16:22	
Diazinon	EPA-525.2	ND	ug/L	1	0.20	n/a	04/13/20	04/15/20 16:22	
Dibenzo[a,h]anthracene	EPA-525.2	ND	ug/L	1	0.30	n/a	04/13/20	04/15/20 16:22	
Di(2-ethylhexyl)adipate	EPA-525.2	ND	ug/L	1	1.0	400	04/13/20	04/15/20 16:22	
Dimethoate	EPA-525.2	ND	ug/L	1	2.0	n/a	04/13/20	04/15/20 16:22	
Dimethyl phthalate	EPA-525.2	ND	ug/L	1	1.0	n/a	04/13/20	04/15/20 16:22	
Di-n-butyl phthalate	EPA-525.2	ND	ug/L	1	1.0	n/a	04/13/20	04/15/20 16:22	
Fluorene	EPA-525.2	ND	ug/L	1	0.20	n/a	04/13/20	04/15/20 16:22	
Hexachlorobenzene	EPA-525.2	ND	ug/L	1	0.20	1	04/13/20	04/15/20 16:22	
Hexachlorocyclopentadiene	EPA-525.2	ND	ug/L	1	1.0	50	04/13/20	04/15/20 16:22	
Indeno[1,2,3-cd]pyrene	EPA-525.2	ND	ug/L	1	0.30	n/a	04/13/20	04/15/20 16:22	
Methoxychlor	EPA-525.2	ND	ug/L	1	0.30	40	04/13/20	04/15/20 16:22	
Metolachlor	EPA-525.2	ND	ug/L	1	0.50	n/a	04/13/20	04/15/20 16:22	
Metribuzin	EPA-525.2	ND	ug/L	1	0.50	n/a	04/13/20	04/15/20 16:22	
Molinate	EPA-525.2	ND	ug/L	1	0.50	n/a	04/13/20	04/15/20 16:22	
Phenanthrene	EPA-525.2	ND	ug/L	1	0.10	n/a	04/13/20	04/15/20 16:22	
Prometon	EPA-525.2	ND	ug/L	1	0.50	n/a	04/13/20	04/15/20 16:22	
Prometryn	EPA-525.2	ND	ug/L	1	0.50	n/a	04/13/20	04/15/20 16:22	
Pyrene	EPA-525.2	ND	ug/L	1	0.10	n/a	04/13/20	04/15/20 16:22	
Secbumeton	EPA-525.2	ND	ug/L	1	0.50	n/a	04/13/20	04/15/20 16:22	
Simazine	EPA-525.2	ND	ug/L	1	0.30	4	04/13/20	04/15/20 16:22	
Terbutryn	EPA-525.2	ND	ug/L	1	0.50	n/a	04/13/20	04/15/20 16:22	
Thiobencarb	EPA-525.2	ND	ug/L	1	0.50	n/a	04/13/20	04/15/20 16:22	
Perylene-d12 (Surrogate)	EPA-525.2	104	%	1	60 - 140 (LCL - UCL)		04/13/20	04/15/20 16:22	
Endothal	EPA-548.1	ND	ug/L	10	20	100	04/08/20	04/13/20 18:11	
Diquat	EPA-549.2	ND	ug/L	1	4.0	20	04/08/20	04/08/20 15:11	

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Adobe Springs  
P.O. Box 1417  
Patterson, CA 95363

Reported: 05/04/2020 16:47  
Project: Title 21 Source  
Project Number: Title 21  
Project Manager: Ray Tackaberry

<b>BCL Sample ID:</b> 2009725-01	<b>Client Sample Name:</b> Adobe Springs, 4/1/2020 10:00:00AM, Mark Ellis
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Constituent	Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
<b>Uncategorized</b>									
Decachlorobiphenyl (Surrogate)	EPA-508	65.6	%	1	60 - 130 (LCL - UCL)		04/08/20	04/09/20 18:57	
Pentachlorophenol	EPA-515.1	ND	ug/L	1.010	0.050	n/a	04/07/20	04/09/20 12:51	
Picloram	EPA-515.1	ND	ug/L	1.010	0.10	n/a	04/07/20	04/09/20 12:51	
Diisopropyl ether	EPA-524.2	ND	ug/L	1	0.50	n/a	04/06/20	04/06/20 07:46	
bis(2-Ethylhexyl)phthalate	EPA-525.2	ND	ug/L	1	3.0	n/a	04/13/20	04/15/20 16:22	
1,3-Dimethyl-2-nitrobenzene (Surrogate)	EPA-525.2	50.2	%	1	70 - 130 (LCL - UCL)		04/13/20	04/15/20 16:22	S09
Triphenylphosphate (Surrogate)	EPA-525.2	-100	%	1	70 - 130 (LCL - UCL)		04/13/20	04/15/20 16:22	S09
Pyrene-d10 (Surrogate)	EPA-525.2	135	%	1	70 - 130 (LCL - UCL)		04/13/20	04/15/20 16:22	S09
Dibromoacetic acid	EPA-552.3	ND	ug/L	1	1.0	n/a	04/08/20	04/09/20 12:07	
Dichloroacetic acid	EPA-552.3	ND	ug/L	1	1.0	n/a	04/08/20	04/09/20 12:07	
Monobromoacetic acid	EPA-552.3	ND	ug/L	1	1.0	n/a	04/08/20	04/09/20 12:07	
Monochloroacetic acid	EPA-552.3	ND	ug/L	1	1.0	n/a	04/08/20	04/09/20 12:07	
Trichloroacetic acid	EPA-552.3	ND	ug/L	1	1.0	n/a	04/08/20	04/09/20 12:07	
Total HAA's (Summation)	EPA-552.3	ND	ug/L	1	1.0	n/a	04/08/20	04/09/20 12:07	
2,3-Dibromopropionic acid (Surrogate)	EPA-552.3	74.0	%	1	70 - 130 (LCL - UCL)		04/08/20	04/09/20 12:07	
Total Recoverable Calcium	EPA-200.7	3.5	mg/L	1	0.10	n/a	04/03/20	04/06/20 09:35	
Total Recoverable Magnesium	EPA-200.7	100	mg/L	1	0.050	n/a	04/03/20	04/06/20 09:35	
Total Recoverable Sodium	EPA-200.7	5.7	mg/L	1	0.50	n/a	04/03/20	04/06/20 09:35	
Total Recoverable Potassium	EPA-200.7	ND	mg/L	1	1.0	n/a	04/03/20	04/06/20 09:35	
Bicarbonate Alkalinity as CaCO3	SM-2320B	360	mg/L	1	4.1	n/a	04/03/20	04/03/20 15:04	
Carbonate Alkalinity as CaCO3	SM-2320B	50	mg/L	1	4.1	n/a	04/03/20	04/03/20 15:04	
Hydroxide Alkalinity as CaCO3	SM-2320B	ND	mg/L	1	4.1	n/a	04/03/20	04/03/20 15:04	
Total Alkalinity as CaCO3	SM-2320B	410	mg/L	1	4.1	n/a	04/03/20	04/03/20 15:04	
pH	SM-4500H B	8.75	pH Units	1	0.05	n/a	04/03/20	04/03/20 15:04	S05
Total Dissolved Solids @ 180 C	SM-2540C	490	mg/L	3.333	33	n/a	04/06/20	04/06/20 13:30	A07
Color	SM-2120B	1.0	Color Units	1	1.0	n/a	04/03/20	04/03/20 08:00	
Odor	SM-2150B	No Obs Odor	Odor Units	1	1.0	n/a	04/03/20	04/03/20 08:00	
Chloramine as Cl2	SM-4500-C LF	ND	mg/L	1	0.10	n/a	04/02/20	04/02/20 15:15	S05
Residual Chlorine	SM-4500-C LF	ND	mg/L	1	0.10	n/a	04/02/20	04/02/20 15:15	S05
Chlorine dioxide	SM-4500-C IO2-B	ND	mg/L	1	0.20	n/a	04/02/20	04/02/20 15:40	S05
Total Cyanide	EPA-335.4	ND	mg/L	1	0.0050	n/a	04/07/20	04/08/20 14:55	

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Adobe Springs  
P.O. Box 1417  
Patterson, CA 95363

**Reported:** 05/04/2020 16:47  
**Project:** Title 21 Source  
**Project Number:** Title 21  
**Project Manager:** Ray Tackaberry

<b>BCL Sample ID:</b> 2009725-02	<b>Client Sample Name:</b> Creek Sample, 4/1/2020 10:15:00AM, Mark Ellis
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Constituent	Method	Result	Units	Dilution	PQL	BW-MCL	Prep Date	Run Date/Time	Lab Quals
<b>Inorganics</b>									
Perchlorate	EPA-314.0	ND	ug/L	1	4.0	n/a	04/20/20	04/20/20 23:00	

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BSK Associates Laboratory Fresno  
1414 Stanislaus St  
Fresno, CA 93706  
559-497-2888 (Main)  
559-485-6935 (FAX)

**ADD0758**  
4/17/2020  
Invoice: AD07461

Vanessa Sandoval  
BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308

**RE: Report for ADD0758 General: Project Manager-Vanessa Sandoval**

Dear Vanessa Sandoval,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 4/7/2020. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Sarah K. Guenther, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Sarah K. Guenther, Project Manager



Accredited in Accordance with NELAP  
ORELAP #4021-009

*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.*

ADD0758 FINAL 04172020 1428

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Page 1 of 12



**ADD0758**

*General: Project Manager-Vanessa Sandoval*

**Case Narrative**

**Project and Report Details Invoice Details**

**Client:** BC Laboratories  
**Report To:** Vanessa Sandoval  
**Project #:** 2009725  
**Received:** 4/07/2020 - 16:20  
**Report Due:** 4/21/2020

**Invoice To:** BC Laboratories  
**Invoice Attn:** Vanessa Sandoval  
**Project PO#:** -

**Sample Receipt Conditions**

**Cooler:** Default Cooler  
**Temperature on Receipt °C:** 0.0

Containers Intact  
COC/Labels Agree  
Received On Wet Ice  
Packing Material - Bubble Wrap  
Sample(s) were received in temperature range.  
Initial receipt at BSK-FAL

**Data Qualifiers**

The following qualifiers have been applied to one or more analytical results:

SC1.41 Sample was received without chemical preservation. Sample volume was split and preserved by the laboratory.

**Report Distribution**

Recipient(s)	Report Format	CC:
Vanessa Sandoval	FINAL.RPT	
Vanessa Sandoval	FINAL.RPT	sguenther@bskassociates.com;johnw@bclabs.com

*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.*

ADD0758 FINAL 04172020 1428



ADD0758

General: Project Manager-Vanessa Sandoval

2009725

Certificate of Analysis

Sample ID: ADD0758-01
Sampled By: Client
Sample Description: 2009725-01

Sample Date - Time: 04/01/2020 - 10:00
Matrix: Water
Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Table with 10 columns: Analyte, Method, Result, RL, Units, RL Mult, Batch, Prepared, Analyzed, Qual. Row 1: Bromate, EPA 317.0, ND, 0.0010, mg/L, 1, ADD0577, 04/13/20, 04/13/20, SCL 41

Organics

Table with 10 columns: Analyte, Method, Result, RL, Units, RL Mult, Batch, Prepared, Analyzed, Qual. Section: Carbamates by HPLC. Section: Glyphosate by HPLC. Surrogate: AMPA, EPA 547, 101 %, Acceptable range: 70-130 %

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.

ADD0758 FINAL 04172020 1428





**ADD0758**

General: Project Manager-Vanessa Sandoval

2009725

**Certificate of Analysis**

Sample ID: ADD0758-01RE1  
Sampled By: Client  
Sample Description: 2009725-01

Sample Date - Time: 04/01/2020 - 10:00  
Matrix: Water  
Sample Type: Grab

**BSK Associates Laboratory Fresno  
General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chlorite	EPA 300.1	ND	0.0050	mg/L	1	ADD0071	04/15/20	04/15/20	
Surrogate: Dichloroacetate	EPA 300.1	103 %	Acceptable range: 90-115 %						

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.

ADD0758 FINAL 04172020 1428

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Page 4 of 12

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.

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ADD0758

General: Project Manager-Vanessa Sandoval

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Table with 11 columns: Analyte, Result, RL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Date Analyzed, Qual

EPA 300.1 - Quality Control

Batch: ADD0071

Prepared: 4/9/2020

Prep Method: Method Specific Preparation

Analyst: RES

Blank (ADD0071-BLK1)

Table with 2 rows: Chlorite (ND, 0.0050 mg/L), Surrogate: Dichloroacetate (0.504, 0.50, 101, 90-115)

Blank Spike (ADD0071-BS1)

Table with 2 rows: Chlorite (0.20, 0.0050 mg/L, 0.20, ND, 101, 85-115), Surrogate: Dichloroacetate (0.524, 0.50, 105, 90-115)

Blank Spike Dup (ADD0071-BSD1)

Table with 2 rows: Chlorite (0.20, 0.0050 mg/L, 0.20, ND, 101, 85-115, 0, 10), Surrogate: Dichloroacetate (0.541, 0.50, 108, 90-115)

Matrix Spike (ADD0071-MS1), Source: ADC3111-06

Table with 2 rows: Chlorite (1.9, 0.10 mg/L, 2.0, ND, 97, 75-125), Surrogate: Dichloroacetate (11.3, 1.0, 113, 90-115)

Matrix Spike (ADD0071-MS2), Source: ADC0885-01

Table with 2 rows: Chlorite (0.19, 0.010 mg/L, 0.20, ND, 97, 75-125), Surrogate: Dichloroacetate (0.996, 1.0, 100, 90-115)

Matrix Spike Dup (ADD0071-MSD1), Source: ADC3111-06

Table with 2 rows: Chlorite (1.9, 0.10 mg/L, 2.0, ND, 96, 75-125, 1, 10), Surrogate: Dichloroacetate (11.3, 1.0, 113, 90-115)

Matrix Spike Dup (ADD0071-MSD2), Source: ADC0885-01

Table with 2 rows: Chlorite (0.19, 0.010 mg/L, 0.20, ND, 97, 75-125, 1, 10), Surrogate: Dichloroacetate (1.01, 1.0, 101, 90-115)

EPA 300.1 - Quality Control

Batch: ADD0357

Prepared: 4/13/2020

Prep Method: Method Specific Preparation

Analyst: RES

Blank (ADD0357-BLK1)

Table with 2 rows: Chlorite (ND, 0.0050 mg/L), Surrogate: Dichloroacetate (0.484, 0.50, 97, 90-115)

Blank Spike (ADD0357-BS1)

Table with 2 rows: Chlorite (0.21, 0.0050 mg/L, 0.20, ND, 103, 85-115), Surrogate: Dichloroacetate (0.493, 0.50, 99, 90-115)

Blank Spike Dup (ADD0357-BSD1)

Table with 2 rows: Chlorite (0.21, 0.0050 mg/L, 0.20, ND, 103, 85-115, 0, 10), Surrogate: Dichloroacetate (0.506, 0.50, 101, 90-115)

Matrix Spike (ADD0357-MS1), Source: ADD0428-12

Table with 2 rows: Chlorite (2.0, 0.10 mg/L, 2.0, ND, 99, 75-125)

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.

ADD0758 FINAL 04172020 1428



ADD0758

General: Project Manager-Vanessa Sandoval

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Table with 11 columns: Analyte, Result, RL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Date Analyzed, Qual

EPA 300.1 - Quality Control

Batch: ADD0357 Prepared: 4/13/2020
Prep Method: Method Specific Preparation Analyst: RES

Matrix Spike (ADD0357-MS1), Source: ADD0428-12

Surrogate: Dichloroacetate 10.8 10 108 90-115 04/13/20

Matrix Spike (ADD0357-MS2), Source: SDD0008-01

Chlorite 0.20 0.010 mg/L 0.20 ND 99 75-125 04/13/20

Surrogate: Dichloroacetate 1.10 1.0 110 90-115 04/13/20

Matrix Spike Dup (ADD0357-MSD1), Source: ADD0428-12

Chlorite 1.9 0.10 mg/L 2.0 ND 97 75-125 2 10 04/13/20

Surrogate: Dichloroacetate 11.1 10 111 90-115 04/13/20

Matrix Spike Dup (ADD0357-MSD2), Source: SDD0008-01

Chlorite 0.19 0.010 mg/L 0.20 ND 96 75-125 4 10 04/14/20

Surrogate: Dichloroacetate 1.09 1.0 109 90-115 04/14/20

EPA 317.0 - Quality Control

Batch: ADD0577 Prepared: 4/13/2020
Prep Method: Method Specific Preparation Analyst: DXR

Blank (ADD0577-BLK1)

Bromate ND 0.0010 mg/L 04/13/20

Blank Spike (ADD0577-BS1)

Bromate 0.010 0.0010 mg/L 0.010 ND 104 85-115 04/13/20

Blank Spike Dup (ADD0577-BSD1)

Bromate 0.011 0.0010 mg/L 0.010 ND 107 85-115 3 10 04/13/20

Matrix Spike (ADD0577-MS1), Source: VDD0058-01

Bromate 0.010 0.0010 mg/L 0.010 ND 102 75-125 04/13/20

Matrix Spike Dup (ADD0577-MSD1), Source: VDD0058-01

Bromate 0.010 0.0010 mg/L 0.010 ND 100 75-125 2 10 04/13/20

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

ADD0758 FINAL 04172020 1428



ADD0758

General: Project Manager-Vanessa Sandoval

BSK Associates Laboratory Fresno
Organics Quality Control Report

Table with 11 columns: Analyte, Result, RL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Date Analyzed, Qual

EPA 531.1 - Quality Control

Batch: ADD0530
Prep Method: EPA 531.1

Prepared: 4/10/2020
Analyst: JNG

Blank (ADD0530-BLK1)

Table with 4 columns: Analyte, Result, RL, Date Analyzed. Rows include 3-Hydroxycarbofuran, Aldicarb Sulfone, Aldicarb Sulfoxide, Aldicarb, Carbaryl, Carbofuran, Methomyl, Oxamyl.

Blank Spike (ADD0530-BS1)

Table with 8 columns: Analyte, Result, RL, Units, Spike Level, Source Result, %REC, RPD, Date Analyzed. Rows include 3-Hydroxycarbofuran, Aldicarb Sulfone, Aldicarb Sulfoxide, Aldicarb, Carbaryl, Carbofuran, Methomyl, Oxamyl.

Blank Spike Dup (ADD0530-BSD1)

Table with 11 columns: Analyte, Result, RL, Units, Spike Level, Source Result, %REC, RPD, RPD Limit, Date Analyzed. Rows include 3-Hydroxycarbofuran, Aldicarb Sulfone, Aldicarb Sulfoxide, Aldicarb, Carbaryl, Carbofuran, Methomyl, Oxamyl.

Matrix Spike (ADD0530-MS1), Source: SDD0015-03

Table with 8 columns: Analyte, Result, RL, Units, Spike Level, Source Result, %REC, RPD, Date Analyzed. Rows include 3-Hydroxycarbofuran, Aldicarb Sulfone, Aldicarb Sulfoxide, Aldicarb, Carbaryl, Carbofuran, Methomyl, Oxamyl.

EPA 547 - Quality Control

Batch: ADD0553
Prep Method: EPA 547

Prepared: 4/10/2020
Analyst: JNG

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ADD0758 FINAL 04172020 1428



ADD0758

General: Project Manager-Vanessa Sandoval

BSK Associates Laboratory Fresno

Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 547 - Quality Control

Batch: ADD0553

Prepared: 4/10/2020

Prep Method: EPA 547

Analyst: JNG

Blank (ADD0553-BLK1)

Glyphosate	ND	5.0	ug/L							04/11/20	
Surrogate: AMPA	210			200		103	70-130			04/11/20	

Blank Spike (ADD0553-BS1)

Glyphosate	100	5.0	ug/L	100	ND	101	70-130			04/11/20	
Surrogate: AMPA	210			200		107	70-130			04/11/20	

Blank Spike Dup (ADD0553-BSD1)

Glyphosate	100	5.0	ug/L	100	ND	102	70-130	2	30	04/11/20	
Surrogate: AMPA	200			200		102	70-130			04/11/20	

Matrix Spike (ADD0553-MS1), Source: RDD0062-01

Glyphosate	130	5.0	ug/L	100	28	105	70-130			04/11/20	
Surrogate: AMPA	210			200		104	70-130			04/11/20	

Matrix Spike Dup (ADD0553-MSD1), Source: RDD0062-01

Glyphosate	130	5.0	ug/L	100	28	99	70-130	5	30	04/11/20	
Surrogate: AMPA	220			200		109	70-130			04/11/20	

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**ADD0758**

*General: Project Manager-Vanessa Sandoval*

**Certificate of Analysis**

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

	2435		
<b>Fresno</b>			
State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-013
State of Nevada	CA000792020-2	State of Oregon - NELAP	4021-013
EPA - UCMR4	CA00079	State of Washington	C997-20
<b>San Bernardino</b>			
State of California - ELAP	2993	Los Angeles CSD	9254478
NELAP certified	4119-004	State of Oregon - NELAP	4119-004
<b>Vancouver</b>			
NELAP certified	WA100008-012	State of Oregon - NELAP	WA100008-013
State of Washington	C824-19		

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0-0#53

**SUBCONTRACT ORDER**  
**BC Laboratories**  
**2009725**

ADD0758 BCLab4911 04/07/2020



**SENDING LABORATORY:**

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

**RECEIVING LABORATORY:**

BSK Analytical Labs  
1414 Stanislaus Street  
Fresno, CA 93706  
Phone: (800) 877-8310  
FAX: (559) 485-6935

**BSKSA**

Analysis	Due	Expires	Comments
<b>Sample ID: 2009725-01</b>	<b>Water</b>	<b>Sampled: 04/01/20 10:00</b>	
EPA 531.1 - Carbamate & Urea Pesticides	04/16/20 17:00	04/29/20 10:00	
EPA 547 - Glyphosate	04/16/20 17:00	04/15/20 10:00	
EPA 300.0 - Bromate	04/16/20 17:00	04/29/20 10:00	
EPA 300.1 - Chlorite	04/16/20 17:00	04/15/20 10:00	
Containers supplied:			

pm's  
w/IBW

✓

Released By: *Kje* Date: 4-~~16~~<sup>7</sup>-20<sup>KE 4/7</sup> Received By: *Venn* Date: 4-7-2020 16:20

Released By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

**BSKSA**

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ADD0758 BCLab4911 04/07/2020



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BSK Associates SR-FL-0002-20

Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info	Is temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	Yes	No	NA	Are correct containers and preservatives received for the tests requested?	Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA	Bubbles Present in VOA (524.2/TCP/TTHM)? TB Received? (Check Method Below)	Yes	No	NA
	Did all bottles arrive unbroken and intact?	Yes	No		Is sufficient amount of sample received?	Yes	No	
	Do all bottle labels agree with COC?	Yes	No		Do samples have a hold time <72 hours?	Yes	No	
Bottles Received	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	No	NA	Has PM been notified of discrepancies? PM: _____ By/Time: _____	Yes	No	NA
	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks	Passed?					
Bottles Received <small>* - means preservation/chlorine checks are either N/A or are performed in the lab</small>	Bacti Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	—	—					
	None (P) White Cap	—	—		1 B			
	Cr6 (P) LL Green Label/Blue Cap NH <sub>4</sub> OH/NH <sub>4</sub> 2SO <sub>4</sub> DW	Cl, pH > 8	P	F				
	Cr6 (P) Pink Label/Blue Cap NH <sub>4</sub> OH/NH <sub>4</sub> 2SO <sub>4</sub> WW	pH 9.3-9.7	P	F				
	Cr6 (P) Black Label/Blue Cap NH <sub>4</sub> OH/NH <sub>4</sub> 2SO <sub>4</sub> 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P	F				
	HNO <sub>3</sub> (P) Red Cap or HCl (P) Purple Cap/LL Blue Label	—	—					
	H <sub>2</sub> SO <sub>4</sub> (P) or (AG) Yellow Cap/Label	pH < 2	P	F				
	NaOH (P) Green Cap	Cl, pH >10	P	F				
	NaOH + ZnAc (P)	pH > 9	P	F				
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
	HCl (AG) LL Blue Label O&G, Diesel, TCP	—	—					
	Ascorbic, EDTA, KH <sub>2</sub> Ct (AG) Pink Label 525	—	—					
	Na <sub>2</sub> SO <sub>3</sub> 250mL (AG) Neon Green Label 515	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 1 Liter (Brown P) 549	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (AG) Blue Label 548, THM, 524	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CG) Blue Label 504, 505, 547	—	—		IV			
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (CG) Orange Label 531	pH < 3	P	F	IV			
	NH <sub>4</sub> Cl (AG) Purple Label 552	—	—					
	EDA (AG) Brown Label DBPs	—	—		IA			
	HCL (CG) 524.2,BTEX,Gas, MTBE, 8260/624	—	—					
	Buffer pH 4 (CG)	—	—					
	H <sub>3</sub> PO <sub>4</sub> (CG) Salmon Label	—	—					
	Trizma - EPA 537.1	—	—					
Other:								
Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—						
Bottled Water	—	—						
Clear Glass 125mL / 250mL / 500mL / 1 Liter	—	—						
Solids: Brass / Steel / Plastic Bag	—	—						
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials		
	S (P) IA	EOA	4/7/2020/16:22/VCH	S P				
Comments	<p>✓ Indicates Blanks Received</p> <p>504 __ 524.2 __ TCP __ TTHM __ 537 __</p> <p>8260/624 __</p>							

Scanned: \_\_\_\_\_

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April 24, 2020

FAL Project 13035

Ms. Vanessa Sandoval  
BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308

Dear Ms. Sandoval,

The following results are associated with Frontier Analytical Laboratory project 13035. This corresponds to your subcontract order number 2009725. One drinking water sample was received on 4/8/2020 in good condition. This sample was extracted and analyzed by EPA Method 1613 for 2,3,7,8-TCDD only. BC Laboratories requested a turnaround time of fifteen business days for project 13035.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and a sample photo. The enclosed results are specifically for the sample referenced in this report only. These results shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is 4041. Our State of California ELAP certificate number is 2934. This report has been emailed to you as a portable document file (PDF). A hardcopy of this report will not be sent to you unless specifically requested.

If you have any questions regarding project 13035, please feel free to contact me at 916-934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Thomas C. Crabtree  
Director

**FRONTIER ANALYTICAL LABORATORY**

5172 Hillside Circle \* El Dorado Hills, CA 95762

Tel (916) 934-0900 \* Fax (916) 934-0999

www.frontieranalytical.com

000001 of 000008

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Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: 13035

Received on: 04/08/2020

Project Due: 04/30/2020

Storage: R-4

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
13035-001-SA	1	2009725	2009725-01	EPA 1613 TCDD	Drinking Water	04/01/2020	10:00 am	04/01/2021

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5172 Hillisdale Circle \* El Dorado Hills, CA 95762 \* Tel (916) 934-0900 \* Fax (916) 934-0999 \* www.frontieranalytical.com

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EPA Method 1613 TCDD



FAL ID: 13035-001-MB  
Client ID: Method Blank  
Matrix: Drinking Water  
Batch No: X5288

Date Extracted: 04-16-2020  
Date Received: NA  
Amount: 1.000 L

ICal: PCDDFAL4-3-23-20  
GC Column: DB5MS  
Units: pg/L

Acquired: 04-23-2020  
WHO TEQ: NA

Compound	Conc	DL	Qual	MDL
2,3,7,8-TCDD	ND	0.897		0.395

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	80.5	31.0 - 137	

Cleanup Surrogate	% Rec	QC Limits	Qual
37Cl-2,3,7,8-TCDD	79.1	42.0 - 164	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 4/23/2020

Reviewed By:   
Date: 4/23/2020

000003 of 000008

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EPA Method 1613  
TCDD



FAL ID: 13035-001-OPR  
Client ID: OPR  
Matrix: Drinking Water  
Batch No: X5288

Date Extracted: 04-16-2020  
Date Received: NA  
Amount: 1.000 L

ICal: PCDDFAL4-3-23-20  
GC Column: DB5MS  
Units: ng/ml

Acquired: 04-22-2020  
WHO TEQ: NA

Compound	Conc	QC Limits
2,3,7,8-TCDD	10.9	7.30 - 14.6
Internal Standards		
13C-2,3,7,8-TCDD	80.0	25.0 - 141
Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	81.8	37.0 - 158

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 4/23/2020

Reviewed By:   
Date: 4/23/2020

000004 of 000008

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EPA Method 1613 TCDD



FAL ID: 13035-001-SA  
Client ID: 2009725-01  
Matrix: Drinking Water  
Batch No: X5288

Date Extracted: 04-16-2020  
Date Received: 04-08-2020  
Amount: 0.971 L

ICal: PCDDFAL4-3-23-20  
GC Column: DB5MS  
Units: pg/L

Acquired: 04-23-2020  
WHO TEQ: NA

Compound	Conc	DL	Qual	MDL
2,3,7,8-TCDD	ND	0.838		0.395

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	83.8	31.0 - 137	

Cleanup Surrogate	% Rec	QC Limits	Qual
37Cl-2,3,7,8-TCDD	83.4	42.0 - 164	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:   
Date: 4/23/2020

Reviewed By:   
Date: 4/23/2020

000005 of 000008

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**SUBCONTRACT ORDER**  
**BC Laboratories**  
**2009725**

**SENDING LABORATORY:**

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

**RECEIVING LABORATORY:**

Frontier Analytical Laboratory  
5172 Hillside Circle  
El Dorado Hills, CA 95762  
Phone: (916) 934-0900  
FAX: (916) 934-0999

FRNTL

13035  
00L

**Analysis** **Due** **Expires** **Comments**

Sample ID: 2009725-01 Water Sampled: 04/01/20 10:00

EPA 1613B - 2,3,7,8-TCDD 04/16/20 17:00 03/31/21 10:00

Containers supplied:

Drinking water  
per Felicia to Kathy  
4-08-2020

OLS TRACKING NUMBER  
47057040720371825903

Released By: Agg Date: 4-7-20 Received By: Kathy Zap Date: 4/08/2020 1030

Released By \_\_\_\_\_ Date \_\_\_\_\_ Received By \_\_\_\_\_ Date \_\_\_\_\_ 000006 of 000008

FRNTL

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Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: 13035

Client:	BC Laboratories, Inc
Client Project ID:	2009725
Date Received:	04/08/2020
Time Received:	10:30 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	1
Duplicates:	1
Storage Location:	R-4

Method of Delivery:	Golden State Overnight
Tracking Number:	47057040720371825083
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	Yes
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	Between 4 and 9
Anomalies or additional comments:	

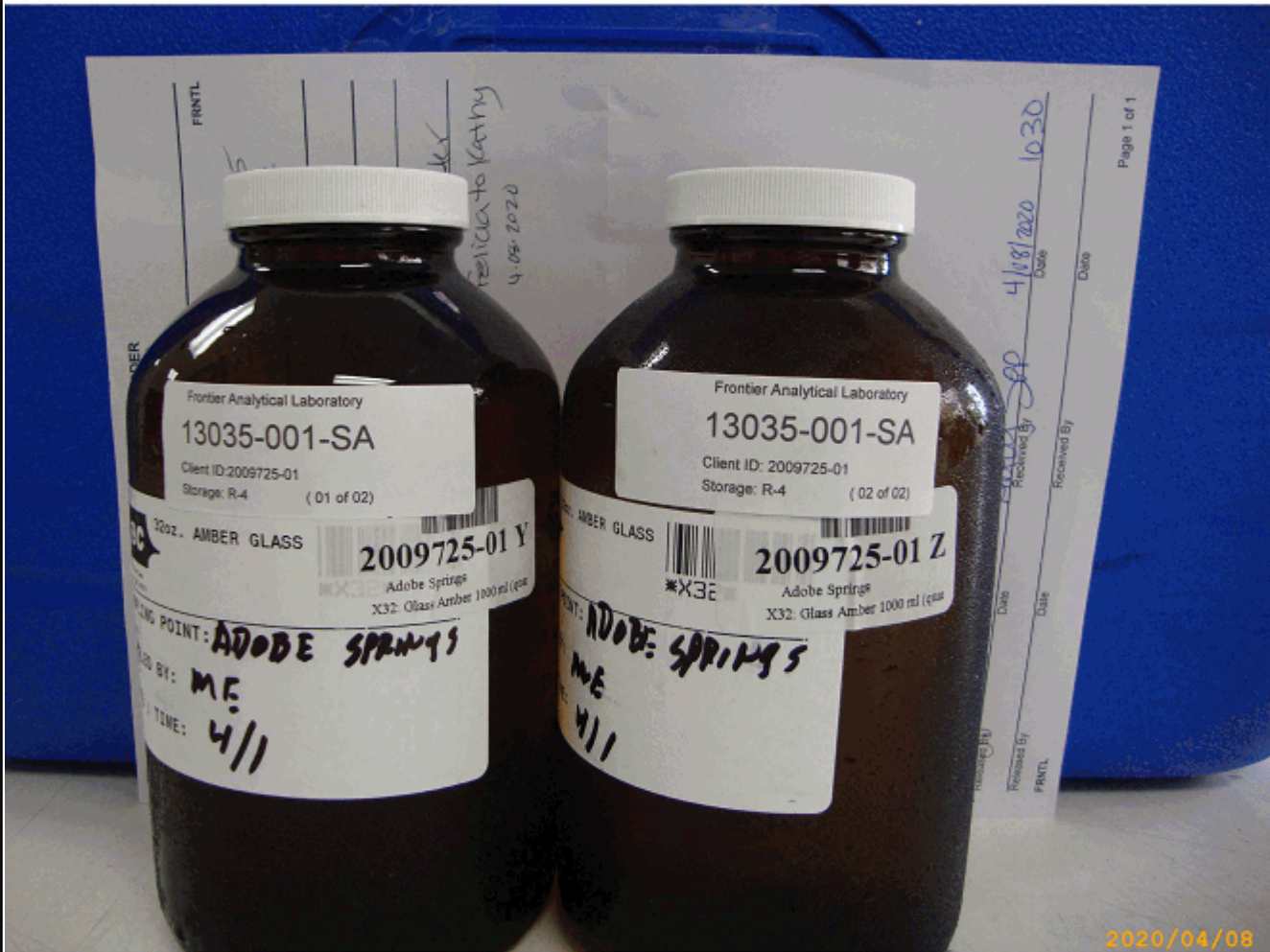
000007 of 000008

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000008 of 000008

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Eaton Analytical

750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)



AT-1807

### Laboratory Report

for

BC Laboratories, Inc.  
4100 Atlas Court  
Bakersfield, CA 93308  
Attention: Chrissy Herndon

Date of Issue  
04/29/2020

EUROFINS EATON  
ANALYTICAL, LLC

WV6M: Rosalynn Dang  
Project Manager



UTAH EICP CA00906

Report:864671  
Project:SUBCONTRACT  
Group:Low Level Phenolics

- \* Accredited in accordance with TNi 2016 and ISO/IEC 17025:2017.
- \* Laboratory certifies that the test results meet all TNi 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis.
- \* Following the cover page are State Certification List, ISO/IEC 17025:2017 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
- \* Test results relate only to the sample(s) tested.
- \* Test results apply to the sample(s) as received, unless EEA-M collected and analyzed the sample(s) as noted in the COC and final report.
- \* This report shall not be reproduced except in full, without the written approval of the laboratory.
- \* This report includes ISO/IEC 17025:2017 and non-ISO/IEC 17025:2017 accredited methods.



Eaton Analytical

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA000062018
California	2813	New Hampshire *	2959
Colorado	Certified	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	Certified
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	18-005R	Oregon *	CA200003-005
Hawaii	Certified	Pennsylvania *	68-565
Idaho	Certified	Puerto Rico	Certified
Illinois *	200033	Rhode Island	LAO00326
Indiana	C-CA-01	South Carolina	87016
Iowa - Asbestos	413	South Dakota	Certified
Kansas *	E-10268	Tennessee	TN02839
Kentucky	90107	Texas *	T104704230-18-15
Louisiana *	LA180000	Utah (Primary AB) *	CA00006
Maine	CA0006	Vermont	VT0114
Maryland	224	Virginia *	460260
Commonwealth of Northern Marianas Is.	MP0004	Washington	C838
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264
Mississippi	Certified		

\* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC

750 Royal Oaks Drive, Suite 100  
Mcnrovia, CA 91016-3629

T | 626-386-1100  
F | 866-988-3757  
www.EurofinsUS.com/Eaton

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ISO/IEC 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB. Refer to Certificate and scope of accreditation (AT 1807) found at: https://www.eurofinsus.com/Eaton

Table with 5 columns: SPECIFIC TESTS, METHOD OR TECHNIQUE USED, Environmental (Drinking Water), Environmental (Waste Water), Water as a Component of Food and Beverages/Bottled Water. The table lists various chemical and biological tests such as 1,2,3-TCDF, Hexavalent Chromium, and E. Coli.

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 https://www.eurofinsus.com/Eaton\_Verise\_003\_based\_09/20/2020

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**Acknowledgement of Samples Received**

Addr: **BC Laboratories, Inc.**  
4100 Atlas Court  
Bakersfield, CA 93308

Attn: Chrissy Herndon  
Phone: 8008784911

Client ID: BCLAB  
Folder #: 864671  
Project: SUBCONTRACT  
Sample Group: Low Level Phenolics

Project Manager: Rosalynn Dang  
Phone: 626-386-1250  
PO #: 2009725

The following samples were received from you on **April 08, 2020 at 1819**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
202004080662	2009725-01	04/01/2020 1000

Variable ID: 2009725-01

Phenolic Compounds-low level

**Test Description**

Reported: 04/29/2020

Page 1 of 1

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 [www.EurofinsUS.com/Eaton](http://www.EurofinsUS.com/Eaton)

Page 4 of 9 pages

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**SUBCONTRACT ORDER**

**BC Laboratories  
2009725**

*164671*

**SENDING LABORATORY:**

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

**RECEIVING LABORATORY:**

Eurofins Eaton Analytical - Monrovia  
750 Royal Oaks, Suite 100  
Monrovia, CA 91101  
Martha Frost  
Phone: (626) 386-1100  
FAX: (626) 568-6324

**MWHMR**

Analysis	Due	Expires	Comments
----------	-----	---------	----------

<b>Sample ID: 2009725-01</b>	<b>Water</b>	<b>Sampled: 04/01/20 10:00</b>	
EPA 420.4 - Phenols	04/16/20 17:00	04/29/20 10:00	
<i>Containers supplied:</i>			

<i>kgj</i>	<i>4-7-20</i>	<i>Clunch Brooks EPA</i>	<i>4-8-20 18:19</i>
Released By	Date	Received By	Date

Released By	Date	Received By	Date
-------------	------	-------------	------

**MWHMR**

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Eaton Analytical

Tel: (626) 386-1100  
Fax: (956) 988-3757  
1 800 566 LABS (1 800 566 5227)

**Laboratory Comments**

Report: 864671  
Project: SUBCONTRACT  
Group: Low Level Phenolics

BC Laboratories, Inc.  
Chrisy Herndon  
4100 Atlas Court  
Bakersfield, CA 93308

---

**Flags Legend:**

NE - Results reported for Phenolic Compounds Low Level are obtained using an in-line distillation process, based on EPA Methods 420.2 and 420.4

The Comments Report may be blank if there are no comments for this report.





Eaton Analytical

Laboratory Data

Tel: (626) 386-1100  
Fax: (626) 968-3757  
1 800 566 LABS (1 800 566 5227)

Report: 864671  
Project: SUBCONTRACT  
Group: Low Level Phenolics

BC Laboratories, Inc.  
Chrissy Herndon  
4100 Atlas Court  
Bakersfield, CA 93308

Samples Received on:  
04/08/2020 1819

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<b>2009725-01 (202004080662)</b>						<b>Sampled on 04/01/2020 1000</b>			
Variable ID: 2009725-01									
<b>EPA 420.4 - Phenolic Compounds-low level</b>									
	04/27/20 21:57		1244868	(EPA 420.4)	Phenolic Compounds-low level	7.5 (NE)	ug/L	1.0	1

Rounding on totals after summation.  
(C) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.



Eaton Analytical

Laboratory QC

Tel: (626) 388-1100  
Fax: (666) 988-3757  
1 800 568 LABS (1 800 568 5227)

Report: 864671  
Project: SUBCONTRACT  
Group: Low Level Phenolics

BC Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
<b>Phenolic Compounds-low level by EPA 420.4</b>									
<b>Analytical Batch: 1244868</b>					<b>Analysis Date: 04/27/2020</b>				
LCS1	Phenolic Compounds-low level		20	20.1	ug/L	101	(90-110)		
LCS2	Phenolic Compounds-low level		20	20.1	ug/L	101	(90-110)	20	0.0
MBLK	Phenolic Compounds-low level			<0.50	ug/L				
MRL_CHK	Phenolic Compounds-low level		1	0.927	ug/L	93	(50-150)		
MS_202004020071	Phenolic Compounds-low level		5	7.61	ug/L	86	(80-120)		
MS_202004060022	Phenolic Compounds-low level	ND	5	5.80	ug/L	100	(80-120)		
MSD_202004020071	Phenolic Compounds-low level		5	7.77	ug/L	89	(80-120)	20	2.1
MSD_202004060022	Phenolic Compounds-low level	ND	5	5.68	ug/L	96	(80-120)	20	2.0

Spike recovery is already corrected for native results.  
 Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
 Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.  
 RPD not calculated for LCS2 when different a concentration than LCS1 is used.  
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).  
 (S) - Indicates surrogate compound.  
 (I) - Indicates internal standard compound.



Pace Analytical Services, LLC  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

May 04, 2020

Ms. Vanessa Sandoval  
BC Laboratories  
4100 Atlas Ct.  
Bakersfield, CA 93308

RE: Project: 2009725  
Pace Project No.: 30358565

Dear Ms. Sandoval:

Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:  
• Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carin Ferris  
carin.ferris@pacelabs.com  
724-850-5615  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

**CERTIFICATIONS**

Project: 2009725  
Pace Project No.: 30358565

Pace Analytical Services Pennsylvania  
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10356  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 9526  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

**REPORT OF LABORATORY ANALYSIS**

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1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

SAMPLE SUMMARY

Project: 2009725  
Pace Project No.: 30358565

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30358565001	2009725-01	Drinking Water	04/01/20 10:00	04/13/20 09:40

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1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 2009725  
Pace Project No.: 30358565

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30358565001	2009725-01	EPA 904.0	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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Pace Analytical Services, LLC  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

PROJECT NARRATIVE

Project: 2009725  
Pace Project No.: 30358565

Method: EPA 904.0  
Description: 904.0 Radium 228  
Client: BC Laboratories  
Date: May 04, 2020

General Information:

1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: 2009725  
Pace Project No.: 30358565

Sample: 2009725-01 Lab ID: 30358565001 Collected: 04/01/20 10:00 Received: 04/13/20 09:40 Matrix: Drinking Water  
PWS: Site ID: Sample Type:

Comments: • Sample collection times were not present on the sample containers.  
• The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.376 ± 0.361 (0.757) C:80% T:84%	pCi/L	04/30/20 10:57	15262-20-1	

**REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, LLC  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2009725  
Pace Project No.: 30358565

QC Batch: 392420  
QC Batch Method: EPA 904.0

Analysis Method: EPA 904.0  
Analysis Description: 904.0 Radium 228  
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30358565001

METHOD BLANK: 1900055  
Associated Lab Samples: 30358565001  
Matrix: Water

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.250 ± 0.384 (0.831) C:81% T:77%	pCi/L	04/30/20 10:57	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

**QUALIFIERS**

Project: 2009725  
Pace Project No.: 30358565

**DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

**REPORT OF LABORATORY ANALYSIS**

Date: 05/04/2020 12:14 PM

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Page 8 of 10

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**SUBCONTRACT ORDER**  
**BC Laboratories**  
**2009725**

**SENDING LABORATORY:**

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

**RECEIVING LABORATORY:**

PACE Analytical  
1638 Roseytown Road, Ste 2,3 &4  
Greensburg, PA 15601  
Phone: (724) 850-5600  
FAX: (724) 850-5601

PACEA

Analysis	Due	Expires	Comments
Sample ID: 2009725-01	Water	Sampled: 04/01/20 10:00	001
EPA 904.0 Radium 228	04/16/20 17:00	09/29/20 10:00	Drinking water, no EDT
Containers supplied:			

**WO# : 30358565**



30358565

	4-7-20		4-13-2020	0940
Released By	Date	Received By	Date	

Released By	Date	Received By	Date
-------------	------	-------------	------

PACEA

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Pittsburgh Lab Sample Condition Upon Receipt



Client Name: BC

Project # 30358565

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other

Tracking #: 12 965 376 12 4016 1935

Label BLM  
LIMS Login BLM

Custody Seal on Cooler/Box Present:  yes  no Seals Intact:  yes  no

Thermometer Used N/A Type of ice: Wet Blue  None

Cooler Temperature Observed Temp N/A °C Correction Factor: - °C Final Temp: - °C

Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and Initials of person examining contents: <u>BLM 4-13-2020</u>
	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Reinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>DW</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. <u>NO TIME ON SAMPLE</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. <u>PH &lt; 2</u>
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>BLM</u> Date/time of preservation
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lot # of added preservative
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.
Rad Samples Screened < 0.5 mram/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>BLM</u> Date: <u>4-13-2020</u>

Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted By: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)  
\*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



# Certificate of Analysis

FINAL REPORT

Work Orders: 0D08018

Report Date: 4/17/2020

Project: 2009725

Received Date: 4/8/2020

Turnaround Time: Normal

Phones: (661) 327-4911

Fax: (661) 327-1918

Attn: Vanessa Sandoval

P.O. #:

Client: BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 •  
NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Vanessa Sandoval,

Enclosed are the results of analyses for samples received 4/08/20 with the Chain-of-Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Regina M. Giancola  
Project Manager



0D08018

Page 1 of 5

14859 Clark Avenue, City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634  
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BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308

Project Number: 2009725

Project Manager: Vanessa Sandoval

# Certificate of Analysis

FINAL REPORT

Reported:  
04/17/2020 15:36

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
2009725-01	Client	0D08018-01	Water	04/01/20 10:00	

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## Sample Results

Sample: 2009725-01  
0D08018-01 (Water) Sampled: 04/01/20 10:00 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
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### Radiological Parameters by APHA/EPA Methods

<b>Method:</b> EPA 900.0	<b>Batch ID:</b> W0D0459	<b>Instr:</b> RAD02	<b>Prepared:</b> 04/09/20 11:52	<b>Analyst:</b> hot
<b>Gross Beta</b> .....		<b>1.8</b>	pCi/L	1 04/12/20
<b>Uncertainty:</b> 0.848	<b>MDA:</b> 1.35			
<b>Method:</b> SM 7110C	<b>Batch ID:</b> W0D0460	<b>Instr:</b> RAD02	<b>Prepared:</b> 04/09/20 11:54	<b>Analyst:</b> hot
<b>Gross Alpha</b> .....		<b>0.963</b>	pCi/L	1 04/13/20
<b>Uncertainty:</b> 0.12	<b>MDA:</b> 0.033			

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## Quality Control Results

Radiological Parameters by APHA/EPA Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W0D0459 - EPA 900.0										
Blank (W0D0459-BLK1) Prepared: 04/09/20 Analyzed: 04/12/20										
Gross Beta	-0.021		pCi/L							
Uncertainty: 0.353	MDA: 0.607									
LCS (W0D0459-B51) Prepared: 04/09/20 Analyzed: 04/13/20										
Gross Beta	17		pCi/L	16.0		104	77-138			
Uncertainty: 0.953	MDA: 0.963									
LCS Dup (W0D0459-B5D1) Prepared: 04/09/20 Analyzed: 04/12/20										
Gross Beta	16		pCi/L	16.0		100	77-138	4	30	
Uncertainty: 0.945	MDA: 0.963									
Batch: W0D0460 - SM 7110C										
Blank (W0D0460-BLK1) Prepared: 04/09/20 Analyzed: 04/13/20										
Gross Alpha	0.222		pCi/L							
Uncertainty: 0.093	MDA: 0.033									
LCS (W0D0460-B51) Prepared: 04/09/20 Analyzed: 04/15/20										
Gross Alpha	4.94		pCi/L	4.80		103	55-149			
Uncertainty: 0.263	MDA: 0.033									
LCS Dup (W0D0460-B5D1) Prepared: 04/09/20 Analyzed: 04/15/20										
Gross Alpha	4.47		pCi/L	4.80		93	55-149	10	30	
Uncertainty: 0.246	MDA: 0.033									





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Project Number: 2009725

Reported:  
04/17/2020 15:36

Project Manager: Vanessa Sandoval

## Notes and Definitions

Item	Definition
% Rec	Percent Recovery
Dil	Dilution
dry	Sample results reported on a dry weight basis
MDA	Minimum Detectable Activity
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
NR	Not Reportable
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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Adobe Springs  
P.O. Box 1417  
Patterson, CA 95363

**Reported:** 05/04/2020 16:47  
**Project:** Title 21 Source  
**Project Number:** Title 21  
**Project Manager:** Ray Tackaberry

**Notes And Definitions**

- MDL Method Detection Limit
  - ND Analyte Not Detected
  - PQL Practical Quantitation Limit
  - A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
  - S05 The sample holding time was exceeded.
  - S09 The surrogate recovery for this compound was not within the control limits.
  - V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.
- BW-MCL = MCLs for Title 21 Bottled Water