



BSK Associates Sacramento
3140 Gold Camp Drive #160
Rancho Cordova, CA 95670
916.853.9293 (Main)
916.853.9297 (FAX)

SEI0389

10/01/2021

Invoice: SE03630

Anthony Ouellette
H2O Urban Solutions, Inc.
PO Box 551310
South Lake Tahoe, CA 96155

RE: Report for SEI0389 Bacti-Grizzly Flats CSD Caldor Fire-2021

Dear Anthony Ouellette,

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 9/23/2021. 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 2016 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, Jaime Lee LaFave, at (916) 853-9293.

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

Sincerely,

Jaime Lee LaFave, Project Manager

Case Narrative

Project and Report Details	Invoice Details
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Client: H2O Urban Solutions, Inc.
Report To: Anthony Ouellette
Project #: Bacteriological
Received: 9/23/2021 - 13:39
Report Due: 10/07/2021

Invoice To: H2O Urban Solutions, Inc.
Invoice Attn: Jodi Lauther
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler	Containers Intact
Temperature on Receipt °C: 17.9	COC/Labels Agree
	Received On Blue Ice
	Sample(s) arrived at lab on same day sampled.
	Sample(s) were received in temperature range.
	Initial receipt at BSK-SAC

Data Qualifiers

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

MC Notify Positive Notification: Anthony Ouellette of H2O Urban Solutions notified of positive Total Coliform result at 13:45 on 9-24-2021.
 MC.x Incubated for an additional 2 hours to confirm the absence of E. coli.

Report Distribution

Recipient(s)	Report Format	CC:
Anthony Ouellette	FINAL.RPT	



SEI0389

Bacti-Grizzly Flats CSD Caldor Fire-2021

Bacteriological

Certificate of Analysis

Sample ID: SEI0389-01
Sampled By: Anthony Ouellette
Sample Description: Treatment Plant-Raw

Sample Date - Time: 09/23/2021 - 11:03
Matrix: Surface Water
Sample Type: Grab

BSK Associates Sacramento Microbiology

Analyte	Method	Result	Units	Batch	Prepared	Analyzed	Qual
Coliform, Presence/Absence by Colilert							
E. Coli	SM 9223B	Absent	/100 mL	SEI0070	09/23/21 17:14	09/24/21 13:20	MC.x
Total Coliform	SM 9223B	Present	/100 mL	SEI0070	09/23/21 17:14	09/24/21 13:20	MC Notify

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.



SEI0389

Bacti-Grizzly Flats CSD Caldor Fire-2021

Bacteriological

Certificate of Analysis

Sample ID: SEI0389-02
Sampled By: Anthony Ouellette
Sample Description: (N) 5971 Wild Berry Ct

Sample Date - Time: 09/23/2021 - 12:05
Matrix: Surface Water
Sample Type: Grab

**BSK Associates Sacramento
Microbiology**

Analyte	Method	Result	Units	Batch	Prepared	Analyzed	Qual
Coliform, Presence/Absence by Colilert							
E. Coli	SM 9223B	Absent	/100 mL	SEI0070	09/23/21 17:14	09/24/21 11:30	
Total Coliform	SM 9223B	Absent	/100 mL	SEI0070	09/23/21 17:14	09/24/21 11:30	

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



SEI0389

Bacti-Grizzly Flats CSD Caldor Fire-2021

Bacteriological

Certificate of Analysis

Sample ID: SEI0389-03
Sampled By: Anthony Ouellette
Sample Description: (M) 5779 Wild Rose

Sample Date - Time: 09/23/2021 - 12:15
Matrix: Surface Water
Sample Type: Grab

BSK Associates Sacramento Microbiology

Analyte	Method	Result	Units	Batch	Prepared	Analyzed	Qual
Coliform, Presence/Absence by Colilert							
E. Coli	SM 9223B	Absent	/100 mL	SEI0070	09/23/21 17:14	09/24/21 11:30	
Total Coliform	SM 9223B	Absent	/100 mL	SEI0070	09/23/21 17:14	09/24/21 11:30	

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



SEI0389

Bacti-Grizzly Flats CSD Caldor Fire-2021

Bacteriological

Certificate of Analysis

Sample ID: SEI0389-04
Sampled By: Anthony Ouellette
Sample Description: (L) 5168 Pineridge

Sample Date - Time: 09/23/2021 - 12:25
Matrix: Surface Water
Sample Type: Grab

BSK Associates Sacramento Microbiology

Analyte	Method	Result	Units	Batch	Prepared	Analyzed	Qual
Coliform, Presence/Absence by Colilert							
E. Coli	SM 9223B	Absent	/100 mL	SEI0070	09/23/21 17:14	09/24/21 11:30	
Total Coliform	SM 9223B	Absent	/100 mL	SEI0070	09/23/21 17:14	09/24/21 11:30	

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

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

E. Coli

Total Coliform

Certificate of Analysis

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

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-018
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-018
EPA - UCMR4	CA00079	State of Washington	C997-21a

Sacramento

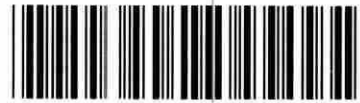
State of California - ELAP	2435
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San Bernardino

State of California - ELAP	2993	Los Angeles CSD	9254478
NELAP certified	4119-006	State of Oregon - NELAP	4119-006

Vancouver

NELAP certified	WA100008-014	State of Oregon - NELAP	WA100008-014
State of Washington	C824-20a		



Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info		Yes	No	NA	Were correct containers and preservatives received for the tests requested?		Yes	No	NA
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<u>Yes</u>					<u>Yes</u>		
If samples were taken today, is there evidence that chilling has begun?		<u>Yes</u>			Bubbles Present VOAs (524.2/TTHM/TCP)?		Yes	No	<u>NA</u>
Did all bottles arrive unbroken and intact?		<u>Yes</u>			TB Received? (Check Method Below)		Yes	No	<u>NA</u>
Did all bottle labels agree with COC?		<u>Yes</u>			Was a sufficient amount of sample received?		<u>Yes</u>		
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes		<u>NA</u>	Do samples have a hold time <72 hours?		<u>Yes</u>		
					Was PM notified of discrepancies? PM: _____ By/Time: _____		Yes	No	<u>NA</u>
250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)		Checks*	Passed?		#1	#2	#3	#4	
Bacti Na ₂ S ₂ O ₃		—	—		<u>ID</u>	<u>ID</u>	<u>ID</u>	<u>ID</u>	
None (P) White Cap		—	—						
Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW		Cl, pH > 8	P	F					
Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW		pH 9.3-9.7	P	F					
Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	P	F					
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—						
H ₂ SO ₄ (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) Lt. Blue Label O&G, Diesel, TCP		—	—						
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—	—						
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—						
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—						
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—						
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—	—						
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3	P	F					
NH ₄ Cl (AG) Purple Label 552		—	—						
EDA (P) or (AG) Brown Label DBPs		—	—						
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—						
Buffer pH 4 (CG)		—	—						
H ₃ PO ₄ (CG) Salmon Label		—	—						
Trizma – EPA 537.1 - Field Blank Required		—	—						
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			S P					
Comments	*Preservation check completed by lab performing analysis.				✓ Indicates Blanks Received				
					504 ___ 524.2 ___ TTHM ___ 537.1 ___ TCP ___				
				✓ MS/MSD Received Method: _____					

Scanned: _____ Rush/Short HT Page: _____ Time: _____