



DIVISION OF LABORATORY SERVICES

Nashville Central Laboratory
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Sent To: Emailed to craig.edwards@tn.gov

Lab ID: N2203166

Nashville Central Laboratory

Bill To Client: TDOH



TDOH.N2203166.M

This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.

A handwritten signature in black ink, appearing to read "Anthony Wilson". The signature is fluid and cursive, written over a horizontal line.

Anthony Wilson
Analytical Supervisor

Processing Date:
4/1/2022

Final Report

Report Queue #:
46,497



Processing Date:
4/1/2022

Final Report

Report Queue #:
46,497

Lab-Sample Number: N2203166-01
Project Name: SafeWatch
Sample Description: 61

External Id #:

Sampler Project Name: SafeWatch
Project Site No.:
Station No.:
Date/Time Collected: 03/23/2022 12:30
Sampler's Name: Judy Manners
County: Lawrence - 50
Sample Matrix: Water
Sampling Agency: No Specified EFO
Sampling Client: TDOH
Billing Code: HL00018480
Send Report To:
Priority Date: 04/17/2022
Date/time Received: 03/23/2022

Agency Invoiced: TDOH

Received By: Daniel Wade

TEST: ICP-OES

METHOD: 200.7

PERFORMING LAB: Nashville Central Laboratory

ANALYTE	RESULT	UNITS	Qualifier	MDL	MQL	ANALYZED BY	DATE
Calcium	15.6	mg/L		0.0897	0.100	Holly Jones	3/29/2022
Iron	203	µg/L		5.08	10.0	Holly Jones	3/29/2022
Magnesium	2.17	mg/L		0.0290	0.100	Holly Jones	3/29/2022
Potassium	0.492	mg/L		0.0510	0.100	Holly Jones	3/29/2022
Sodium	0.823	mg/L		0.0250	0.100	Holly Jones	3/29/2022
Hardness, Calcium	38.9	mg/L		0.152	0.25	Holly Jones	3/29/2022
Hardness, Ca, Mg	47.8	mg/L		0.115	0.25	Holly Jones	3/29/2022

TEST: ICP Digestion (Water)

METHOD: 200.2

PERFORMING LAB: Nashville Central Laboratory

ANALYTE	RESULT	UNITS	Qualifier	MDL	MQL	ANALYZED BY	DATE
Generic Prep	Completed						3/25/2022

TEST: ICP-MS Nexion

METHOD: 200.8

PERFORMING LAB: Nashville Central Laboratory

ANALYTE	RESULT	UNITS	Qualifier	MDL	MQL	ANALYZED BY	DATE
Arsenic	<0.388	µg/L	U	0.388	1.00	Holly Jones	3/31/2022
Barium	7.33	µg/L		0.107	1.00	Daniel Wade	3/31/2022
Boron	4.44	µg/L	J	3.01	10.0	Daniel Wade	3/31/2022
Copper	<0.170	µg/L	U	0.170	1.00	Daniel Wade	3/31/2022
Lead	<0.288	µg/L	U	0.288	1.00	Holly Jones	3/31/2022

TEST: ICP-MS Nexion

METHOD: 200.8

PERFORMING LAB: Nashville Central Laboratory

ANALYTE	RESULT	UNITS	Qualifier	MDL	ML	ANALYZED BY	DATE
Manganese	7.21	µg/L		0.362	1.00	Daniel Wade	3/31/2022
Zinc	<2.25	µg/L	U	2.25	5.00	Holly Jones	3/31/2022

Processing Date:
4/1/2022

Final Report

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46,497

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Project Name: SafeWatch
Sample Description: 61

External Id #:

Sampler Project Name: SafeWatch
Project Site No.:
Station No.:
Date/Time Collected: 03/23/2022 12:30
Sampler's Name: Judy Manners
County: Lawrence - 50
Sample Matrix: Water
Sampling Agency: No Specified EFO
Sampling Client: TDOH
Billing Code:
Send Report To:
Priority Date:
Date/time Received: 03/23/2022

Agency Invoiced: TDOH

Received By: Daniel Wade

TEST: ICP-MS Nexion

METHOD: 200.8

PERFORMING LAB: Nashville Central Laboratory

ANALYTE	RESULT	UNITS	Qualifier	MDL	ML	ANALYZED BY	DATE
Aluminum	211	µg/L		4.18	5.00	Daniel Wade	3/31/2022

Qualifiers Key

Qualifier

Description

MDL	Method Detection Limit
MQL	Method Quantitation Limit
J	Result is less than the MQL but greater than or equal to the MDL and the concentration is an approximate value.
U	Result is less than the MDL



N2203166-01

PROJECT NAME: SafeWATCH		WATERBODY NAME: N/A		* Metals	
STATION NUMBER: C1				X	aluminum, Al
STREAM MILE: N/A		COUNTY: Lawrence			antimony, Sb
DESCRIPTION: Spring				X	arsenic, As
LATITUDE:		LONGITUDE:		X	barium, Ba
Matrix: N/A		Depth: N/A			beryllium, Be
COLLECTED DATE: 3/23/22		TIME: 12:30		X	boron, B
SAMPLER'S FULL NAME (printed): Liam O'Rourke		Judy Manners			cadmium, Cd
SAMPLING AGENCY: TDH				X	calcium, Ca
IF PRIORITY, DATE NEEDED:		BILLING CODE: HL00018480			chromium, Cr
SEND REPORT TO: Judy.Manners@tn.gov					cobalt, Co
* Env. Microbiology	* Gen. Inorganics (con't)	Other General Inorganics:		X	copper, Cu
coliform, fecal*	ortho-phosphate			X	iron, Fe
coliform, total*	silica*				lithium, Li
strep. fecal*	X sulfate*			X	lead, Pb
E. Coli*	turbidity*			X	magnesium, Mg
Enterococcus*	Preserved, Nutrient			X	manganese, Mn
	COD*				mercury, Hg
* General Inorganics	nitrogen, ammonia				nickel, Ni
Not Preserved	nitrogen, NO ₃ & NO ₂			X	potassium, K
acidity as CaCO ₃ *	nitrogen, total Kjeldahl				selenium, Se
alkalinity as CaCO ₃ *	nitrogen, total organic				silver, Ag
BOD, 5-day*	phosphate, total			X	sodium, Na
CBOD, 5-day*					strontium, Sr
X chloride*	SPECIAL PRESERVATION				thallium, Tl
chromium, hexavalent	cyanide				vanadium, V
color	oil and grease			X	zinc, Zn
conductivity*	phenols, total	Metals Digestion type:		X	hardness, Ca as CaCO ₃ *
X fluoride*	sulfide, total*	Normal		X	hardness, total as CaCO ₃ *
MBAS*	TOC*	Dissolved			
X nitrogen, nitrate*		TCLP			
X nitrogen, nitrite*		Other:			
pH					
residue, dissolved*	Asbestos				
residue, settleable*	bulk asbestos				
residue, suspended*	other microscopic				
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (u/mhos)	Chlorine, residual	Other Field Parameters	5. Date cooler sealed
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)		6. Remarks
Temperature, (°C)	ORP, (mv)		
pH	Flow Rate		