



ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515

Monday, August 16, 2021

VIP Inspections (VI009)

Attn: Pat Rentz

404 Indigo Dr.

Cary, NC 27513

RE: Laboratory Results for

Project Number: 220 King Fisher Way, Project Name/Desc: Drinking Water

ENCO Workorder(s): CE11645

Dear Pat Rentz,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, August 4, 2021.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative if applicable. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: KITCHEN - 220 King Fisher Way		Lab ID: CE11645-01		Sampled: 08/04/21 14:15		Received: 08/04/21 16:10	
Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
Colilert 18-9223B	NO PREP	08/05/21	20:15	08/05/21	15:08	08/04/21	17:04
E. coli, Colilert 18 9223B	NO PREP	08/05/21	20:15	08/05/21	15:08	08/04/21	17:04
EPA 200.8	EPA 3005A	01/31/22				08/06/21	03:18
SM 4500NO3 F-2011	NO PREP	08/06/21	14:15			08/05/21	16:14
SM 4500NO3 F-2011	[CALC]	08/06/21	14:15			08/09/21	15:06
SM 4500NO3 F-2011	NO PREP	09/01/21				08/09/21	15:06

SAMPLE DETECTION SUMMARY

Client ID: KITCHEN - 220 King Fisher Way

Lab ID: CE11645-01

<u>Analyte</u>	<u>Results</u>	<u>Flag</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Notes</u>
Lead - Total	0.00037	J	0.00013	0.00100	mg/L	EPA 200.8	
Nitrate as N	1.1	D	0.20	0.50	mg/L	SM 4500NO3 F-2011	
Nitrate/Nitrite as N	1.2	D	0.20	0.50	mg/L	SM 4500NO3 F-2011	
Nitrite as N	0.018	J	0.017	0.10	mg/L	SM 4500NO3 F-2011	

ANALYTICAL RESULTS

Description: KITCHEN - 220 King Fisher Way

Lab Sample ID: CE11645-01

Received: 08/04/21 16:10

Matrix: Drinking Water

Sampled: 08/04/21 14:15

Work Order: CE11645

Project: Drinking Water

Sampled By: Jenny Rentz

Metals by EPA 200 Series Methods

^ - ENCO Cary certified analyte [NCDW 37724]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Lead [7439-92-1]^	0.00037	J	mg/L	1	0.00013	0.00100	1H06004	EPA 200.8	08/06/21 07:13	RLF	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NCDW 37724]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	1.1	D	mg/L	5	0.20	0.50	[CALC]	M 4500NO3 F-201	08/10/21 11:34	JAH	
Nitrate/Nitrite as N^	1.2	D	mg/L	5	0.20	0.50	1H09032	M 4500NO3 F-201	08/10/21 11:34	JAH	
Nitrite as N [14797-65-0]^	0.018	J	mg/L	1	0.017	0.10	1H05029	M 4500NO3 F-201	08/05/21 17:55	JAH	

Microbiological Parameters

^ - ENCO Cary certified analyte [NCDW 37724]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
Coliform, Total^	Absent		[blank]	1	1.0	1H05017	Colilert 18-9223B	08/05/21 11:05	MSE	
Escherichia coli [68583-22-2]^	Absent		[blank]	1	1.0	1H05017	coli, Colilert 18 92	08/05/21 11:05	MSE	

QUALITY CONTROL DATA

Metals by EPA 200 Series Methods - Quality Control

Batch 1H06004 - EPA 3005A

Blank (1H06004-BLK1)

Prepared: 08/06/2021 03:18 Analyzed: 08/06/2021 06:37

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	0.00013	U	0.00100	mg/L							

LCS (1H06004-BS1)

Prepared: 08/06/2021 03:18 Analyzed: 08/06/2021 06:39

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	0.0194		0.00100	mg/L	0.0200		97	85-115			

Matrix Spike (1H06004-MS1)

Prepared: 08/06/2021 03:18 Analyzed: 08/06/2021 06:41

Source: CE07059-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	0.0187		0.00100	mg/L	0.0200	0.00031	92	70-130			

Matrix Spike Dup (1H06004-MSD1)

Prepared: 08/06/2021 03:18 Analyzed: 08/06/2021 06:44

Source: CE07059-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	0.0186		0.00100	mg/L	0.0200	0.00031	91	70-130	0.4	10	

Classical Chemistry Parameters - Quality Control

Batch 1H05029 - NO PREP

Blank (1H05029-BLK1)

Prepared: 08/05/2021 16:14 Analyzed: 08/05/2021 17:51

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.017	U	0.10	mg/L							

LCS (1H05029-BS1)

Prepared: 08/05/2021 16:14 Analyzed: 08/05/2021 17:50

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		101	90-110			

LCS (1H05029-BS2)

Prepared: 08/05/2021 16:14 Analyzed: 08/05/2021 18:11

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.99		0.10	mg/L	1.00		99	90-110			

Duplicate (1H05029-DUP1)

Prepared: 08/05/2021 16:14 Analyzed: 08/05/2021 17:55

Source: CE11645-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.017	U	0.10	mg/L		0.018				10	

Matrix Spike (1H05029-MS1)

Prepared: 08/05/2021 16:14 Analyzed: 08/05/2021 17:53

Source: CE08768-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.96		0.10	mg/L	1.00	0.017 U	96	90-110			

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 1H05029 - NO PREP - Continued

Matrix Spike Dup (1H05029-MSD1)

Prepared: 08/05/2021 16:14 Analyzed: 08/05/2021 17:54

Source: CE08768-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.95		0.10	mg/L	1.00	0.017 U	95	90-110	1	10	

Batch 1H09032 - NO PREP

Blank (1H09032-BLK1)

Prepared: 08/09/2021 15:06 Analyzed: 08/10/2021 09:46

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.041	U	0.10	mg/L							

LCS (1H09032-BS1)

Prepared: 08/09/2021 15:06 Analyzed: 08/10/2021 10:44

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4		0.10	mg/L	1.25		109	90-110			

LCS (1H09032-BS2)

Prepared: 08/09/2021 15:06 Analyzed: 08/10/2021 12:19

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		96	90-110			

Duplicate (1H09032-DUP1)

Prepared: 08/09/2021 15:06 Analyzed: 08/10/2021 11:08

Source: CE07562-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	6.4	D	0.50	mg/L		6.2			3	10	

Matrix Spike (1H09032-MS1)

Prepared: 08/09/2021 15:06 Analyzed: 08/10/2021 10:59

Source: CE07561-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	11		0.50	mg/L	2.50	7.8	126	90-110			QM-07

Matrix Spike Dup (1H09032-MSD1)

Prepared: 08/09/2021 15:06 Analyzed: 08/10/2021 11:05

Source: CE07561-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	11		0.50	mg/L	2.50	7.8	124	90-110	0.6	10	QM-07

FLAGS/NOTES AND DEFINITIONS

- B** The analyte was detected in the associated method blank.
- D** The sample was analyzed at dilution.
- J** The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- U** The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- E** The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL** Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
- PQL** PQL: Practical Quantitation Limit. The PQL presented is the laboratory MRL.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
- P** Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
- [CALC]** Calculated analyte - MDL/MRL reported to the highest reporting limit of the component analyses.
- QM-07** The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.



Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)
Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)
 Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Sample Preservation Verification

ENCO Cary



Work Order: CE11645

Client: VIP Inspections (VI009)

Logged In: 04-Aug-21 16:12

Preservation Check Performed By: SH

Project: Drinking Water

Project #: 220 King Fisher Way

Logged By: Rachel Ann Yonish

Date/Time: 8/4/21 1615

CE11645-01

Cont	Type	Pres (pH) Requirement	pH Checked / In Control	pH Adjusted	Date/Time Adjusted	Reagent Used/Comments
A	250mLP+HNO3	<2	Y / N / NA	Y / N / NA		
C	40mLV+H2SO4	<2	Y / N / NA	Y / N / NA		

	Reagent Name	ID
1		
2		

	Reagent Name	ID
3		
4		

	Reagent Name	ID
5		
6		

pH Strip ID:

PH Strips C0F0555

C:\elmnt\Print\work_order_preservationcheck.rpt