ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

June 17, 2015

Mr. Brian Lyle
Wrightsville Borough
P.O. BOX 187
Wrightsville, PA 17368

Certificate of Analysis

Project Name:	**Public Water Supply Samples**	Workorder:	**2075940**
Purchase Order:		Workorder ID:	**June 2015 VOC/IOC**

Dear Mr. Lyle:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 10, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Kelli L Wolfgang (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

Kelli Wolfgang

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Mrs. Kelli L Wolfgang
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2075940 June 2015 VOC/IOC

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2075940001	Entry Point 101	Drinking Water	6/10/2015 11:10	6/10/2015 15:21	Collected by Client
2075940002	Trip Blank	Drinking Water	6/10/2015 15:21	6/10/2015 15:21	Collected by Client

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)

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PROJECT SUMMARY

Workorder: 2075940 June 2015 VOC/IOC

Sample Comments

Lab ID: 2075940002 **Sample ID:** Trip Blank **Sample Type:** SAMPLE

This sample was cancelled per project specifications.

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ANALYTICAL RESULTS

Workorder: 2075940 June 2015 VOC/IOC

Lab ID: **2075940001** Date Collected: 6/10/2015 11:10 Matrix: Drinking Water
Sample ID: **Entry Point 101** Date Received: 6/10/2015 15:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Carbon Tetrachloride	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Chlorobenzene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
1,2-Dichlorobenzene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
1,4-Dichlorobenzene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
1,2-Dichloroethane	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
1,1-Dichloroethene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
cis-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
trans-1,2-Dichloroethene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
1,2-Dichloropropane	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Methylene Chloride	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Styrene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Tetrachloroethene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Toluene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Total Xylenes	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
1,2,4-Trichlorobenzene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
1,1,1-Trichloroethane	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
1,1,2-Trichloroethane	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Trichloroethene	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Vinyl Chloride	ND		ug/L	0.50	EPA 524.2			6/16/15 09:14	CPK	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichlorobenzene-d4 (S)	83.5		%	70 - 130	EPA 524.2			6/16/15 09:14	CPK	B
4-Bromofluorobenzene (S)	85.2		%	70 - 130	EPA 524.2			6/16/15 09:14	CPK	B
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	6/13/15	SYB	6/13/15 19:44	LJF	F
Fluoride	0.11		mg/L	0.10	EPA 300.0			6/12/15 01:46	SSL	E
METALS										
Antimony, Total	ND		mg/L	0.0020	EPA 200.8	6/12/15	MO	6/12/15 18:27	MO	D1
Arsenic, Total	ND		mg/L	0.0030	EPA 200.8	6/12/15	MO	6/12/15 18:27	MO	D1
Barium, Total	0.035		mg/L	0.0050	EPA 200.8	6/12/15	MO	6/12/15 18:27	MO	D1
Beryllium, Total	ND		mg/L	0.0010	EPA 200.8	6/12/15	MO	6/12/15 18:27	MO	D1
Cadmium, Total	ND		mg/L	0.0010	EPA 200.8	6/12/15	MO	6/12/15 18:27	MO	D1
Chromium, Total	ND		mg/L	0.0020	EPA 200.8	6/12/15	MO	6/12/15 18:27	MO	D1
Mercury, Total	ND		mg/L	0.00020	EPA 200.8	6/12/15	MO	6/12/15 18:27	MO	D1
Nickel, Total	ND		mg/L	0.0050	EPA 200.8	6/12/15	MO	6/12/15 18:27	MO	D1

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ANALYTICAL RESULTS

Workorder: 2075940 June 2015 VOC/IOC

Lab ID: **2075940001** Date Collected: 6/10/2015 11:10 Matrix: Drinking Water
Sample ID: **Entry Point 101** Date Received: 6/10/2015 15:21

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
Selenium, Total	ND		mg/L	0.0050	EPA 200.8	6/12/15	MO	6/12/15 18:27	MO	D1
Thallium, Total	ND		mg/L	0.0010	EPA 200.8	6/12/15	MO	6/15/15 06:10	ZMC	D1

Kelli Wolfgang
Mrs. Kelli L Wolfgang
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2075940 June 2015 VOC/IOC

Lab ID: **2075940002** Date Collected: 6/10/2015 15:21 Matrix: Drinking Water
Sample ID: **Trip Blank** Date Received: 6/10/2015 15:21

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
ADMINISTRATIVE									
Sample Cancelled	CANCEL						6/17/15 08:53	CPK	

Kelli Wolfgang
Mrs. Kelli L Wolfgang
Project Coordinator

ALS Environmental

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KLW

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page ___ of ___
Courier:
Tracking #:

2075940

Co. Name: Wrightsville Water
Contact (Report to): Brian Lyle
Phone: 577 9746
Address:

Bill to (if different than Report to):
PO#:

Project Name/#:
ALS Quote #:

TAT: [X] Normal-Standard TAT is 10-12 business days. Date Required:
[ ] Rush-Subject to ALS approval and surcharges. Approved By:

Email? [ ] -Y
Fax? [ ] -Y No.:

						***Container Type	CG	CG	P	P	P												
						***Container Size	40mL	40mL	500mL	500mL	250mL												
						*** Preservative	ISCT+ HCL		HNO_3	NaOH	unP												
						ANALYSES/METHOD REQUESTED																	
Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	VOC's EPA 524.2	Trip Blanks	TOC's Metals	TOC's Cyanide	TOC's Fluoride													
						Enter Number of Containers Per Analysis																	
1 Entry Point		6/10/15	1110			3	2	1	1	1													
2																							
3																							
4																							
5																							
6																							
7																							
8																							

6/10/15 2054

(completed by Sample Receiving)
Performed by: INITIAL of Rec 20
Cooler Temp: 20
Therm. ID: TH294
No. of Coolers:
Notes:

Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
Y	Y	Y	Y	
Custody seals Present?	(if present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
Y	Y	Y	Y	Y

SAMPLED BY (Please Print):

Project Comments: KLW

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	6/10/15	1330	2 Darlene Joseph ALS	6/10/15	1330
3 Darlene Joseph ALS	6/10/15	1458	4 [signature] ALS	6/10/15	1458
5 [signature]	6/10/15	1521	6 TG	6/10/15	1521
7			8		
9			10		

Data Deliverables: [X] Standard; [ ] CLP-like; [ ] NJ-Reduced; [ ] NJ-Full; [ ] (other)
EDDs Required? [ ] If yes, format type:
DOD Criteria Required?
SDWA Forms? ⇨ yes [ ]; yes [ ]; yes [ ]; yes [ ]
State Samples Collected In? MD [ ]; NJ [ ]; NY [ ]; PA [X]
Other 7670097

ALS FIELD SERVICES: [ ] Pickup; [ ] Labor; [ ] Composite Sampling; [ ] Rental Equipment; [ ] Other:

* G=Grab; C=Composite **Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY ***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO_3, NaOH, etc. Rev 01-2013