



NELAC NJ11005
 EPA NJ01186
 PADEP 68-05417
 NYDOH NY12046
 BWON Approved



380 Scotch Road
 Ewing, NJ 08628
 609-737-3477 (p)
www.njal.com

CERTIFICATE OF ANALYSIS

NJ11005 / NY12046

Project Name:	Berlin Elementary School	Workorder:	N041219
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Jeremy Smith
 CNA Environmental
 27 Kent St
 Ballston Spa, NY 12020

Project Name and Number: **Berlin Elementary School**

November 10, 2016

Dear Jeremy Smith,

This report relates only to the sample(s) as received by the laboratory. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Caution is advised for the utilization of preliminary data included in reports labeled as "Preliminary Report" and should not be used for regulatory purposes. A laboratory signature is provided on final reports only.

If you have any questions in reference to this laboratory report, please contact your NJAL Environmental project coordinator or laboratory manager listed at the bottom of this report at (609)-737-3477

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


 Laboratory Manager



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Stephen Withers



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Total Metals by EPA 200.8

Date Received: 10/10/16 10:50

Sample ID#	Analysis	Method	Results	RL	Units	MCL	Sample Point	Sampled	Analyzed
N041219-01	Copper	EPA 200.8	80.5	2.00	ug/L	1300	Berlin Elementary School-01	9/28/16 05:10	10/21/16 11:28
N041219-02	Copper	EPA 200.8	126	2.00	ug/L	1300	Berlin Elementary School-02	9/28/16 05:12	10/21/16 11:30
N041219-03	Copper	EPA 200.8	126	2.00	ug/L	1300	Berlin Elementary School-03	9/28/16 05:12	10/21/16 11:33
N041219-04	Copper	EPA 200.8	114	2.00	ug/L	1300	Berlin Elementary School-04	9/28/16 05:12	10/21/16 11:35
N041219-05	Copper	EPA 200.8	202	2.00	ug/L	1300	Berlin Elementary School-05	9/28/16 05:14	10/21/16 11:37
N041219-06	Copper	EPA 200.8	184	2.00	ug/L	1300	Berlin Elementary School-06	9/28/16 05:15	10/21/16 11:40
N041219-07	Copper	EPA 200.8	430	2.00	ug/L	1300	Berlin Elementary School-07	9/28/16 05:15	10/21/16 11:42
N041219-08	Copper	EPA 200.8	128	2.00	ug/L	1300	Berlin Elementary School-08	9/28/16 05:16	10/21/16 11:44
N041219-09	Copper	EPA 200.8	330	2.00	ug/L	1300	Berlin Elementary School-09	9/28/16 05:16	10/21/16 11:47
N041219-11	Copper	EPA 200.8	291	2.00	ug/L	1300	Berlin Elementary School-11	9/28/16 05:20	10/21/16 11:49
N041219-12	Copper	EPA 200.8	221	2.00	ug/L	1300	Berlin Elementary School-12	9/28/16 05:21	10/21/16 12:01
N041219-13	Copper	EPA 200.8	119	2.00	ug/L	1300	Berlin Elementary School-13	9/28/16 05:22	10/21/16 12:04
N041219-14	Copper	EPA 200.8	261	2.00	ug/L	1300	Berlin Elementary School-14	9/28/16 05:23	10/21/16 12:06
N041219-16	Copper	EPA 200.8	128	2.00	ug/L	1300	Berlin Elementary School-16	9/28/16 05:26	10/21/16 12:08
N041219-17	Copper	EPA 200.8	131	2.00	ug/L	1300	Berlin Elementary School-17	9/28/16 05:26	10/21/16 12:11
N041219-18	Copper	EPA 200.8	139	2.00	ug/L	1300	Berlin Elementary School-18	9/28/16 05:26	10/21/16 12:13
N041219-19	Copper	EPA 200.8	195	2.00	ug/L	1300	Berlin Elementary School-19	9/28/16 05:27	10/21/16 12:15
N041219-21	Copper	EPA 200.8	139	2.00	ug/L	1300	Berlin Elementary School-21	9/28/16 05:29	10/21/16 12:18
N041219-22	Copper	EPA 200.8	828	2.00	ug/L	1300	Berlin Elementary School-22	9/28/16 05:30	10/21/16 12:23
N041219-23	Copper	EPA 200.8	105	2.00	ug/L	1300	Berlin Elementary School-23	9/28/16 05:30	10/21/16 12:25
N041219-24	Copper	EPA 200.8	67.7	2.00	ug/L	1300	Berlin Elementary School-24	9/28/16 05:30	10/21/16 12:37
N041219-25	Copper	EPA 200.8	129	2.00	ug/L	1300	Berlin Elementary School-25	9/28/16 05:34	10/21/16 12:40
N041219-26	Copper	EPA 200.8	109	2.00	ug/L	1300	Berlin Elementary School-26	9/28/16 05:34	10/21/16 12:42
N041219-27	Copper	EPA 200.8	61.4	2.00	ug/L	1300	Berlin Elementary School-27	9/28/16 05:34	10/21/16 12:44
N041219-28	Copper	EPA 200.8	285	2.00	ug/L	1300	Berlin Elementary School-28	9/28/16 05:31	10/21/16 12:47
N041219-29	Copper	EPA 200.8	152	2.00	ug/L	1300	Berlin Elementary School-29	9/28/16 05:33	10/21/16 12:49
N041219-30	Copper	EPA 200.8	197	2.00	ug/L	1300	Berlin Elementary School-30	9/28/16 05:43	10/21/16 12:51
N041219-31	Copper	EPA 200.8	214	2.00	ug/L	1300	Berlin Elementary School-31	9/28/16 05:43	10/21/16 12:54
N041219-32	Copper	EPA 200.8	226	2.00	ug/L	1300	Berlin Elementary School-32	9/28/16 05:43	10/21/16 12:56
N041219-34	Copper	EPA 200.8	269	2.00	ug/L	1300	Berlin Elementary School-34	9/28/16 05:44	10/21/16 12:59
N041219-35	Copper	EPA 200.8	210	2.00	ug/L	1300	Berlin Elementary School-35	9/28/16 05:45	10/21/16 13:11
N041219-36	Copper	EPA 200.8	160	2.00	ug/L	1300	Berlin Elementary School-36	9/28/16 05:46	10/21/16 13:13

Stephen Withers



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Total Metals by EPA 200.8

Date Received: 10/10/16 10:50

Sample ID#	Analysis	Method	Results	RL	Units	MCL	Sample Point	Sampled	Analyzed
N041219-37	Copper	EPA 200.8	154	2.00	ug/L	1300	Berlin Elementary School-37	9/28/16 05:46	10/21/16 13:15
N041219-38	Copper	EPA 200.8	222	2.00	ug/L	1300	Berlin Elementary School-38	9/28/16 05:42	10/21/16 13:18
N041219-39	Copper	EPA 200.8	248	2.00	ug/L	1300	Berlin Elementary School-39	9/28/16 05:42	10/21/16 13:22
N041219-40	Copper	EPA 200.8	160	2.00	ug/L	1300	Berlin Elementary School-40	9/28/16 05:47	10/21/16 13:25
N041219-41	Copper	EPA 200.8	76.1	2.00	ug/L	1300	Berlin Elementary School-41	9/28/16 05:49	11/2/16 15:59
N041219-42	Copper	EPA 200.8	122	2.00	ug/L	1300	Berlin Elementary School-42	9/28/16 05:50	11/2/16 16:01
N041219-43	Copper	EPA 200.8	233	2.00	ug/L	1300	Berlin Elementary School-43	9/28/16 05:37	10/21/16 13:27

Sample ID#	Analysis	Method	Results	RL	Units	MCL	Sample Point	Sampled	Analyzed
N041219-01	Lead	EPA 200.8	5.96	0.50	ug/L	15	Berlin Elementary School-01	9/28/16 05:10	10/21/16 11:28
N041219-02	Lead	EPA 200.8	11.9	0.50	ug/L	15	Berlin Elementary School-02	9/28/16 05:12	10/21/16 11:30
N041219-03	Lead	EPA 200.8	22.7	0.50	ug/L	15	Berlin Elementary School-03	9/28/16 05:12	10/21/16 11:33
N041219-04	Lead	EPA 200.8	30.4	0.50	ug/L	15	Berlin Elementary School-04	9/28/16 05:12	10/21/16 11:35
N041219-05	Lead	EPA 200.8	12.7	0.50	ug/L	15	Berlin Elementary School-05	9/28/16 05:14	10/21/16 11:37
N041219-06	Lead	EPA 200.8	10.1	0.50	ug/L	15	Berlin Elementary School-06	9/28/16 05:15	10/21/16 11:40
N041219-07	Lead	EPA 200.8	4.74	0.50	ug/L	15	Berlin Elementary School-07	9/28/16 05:15	10/21/16 11:42
N041219-08	Lead	EPA 200.8	2.41	0.50	ug/L	15	Berlin Elementary School-08	9/28/16 05:16	10/21/16 11:44
N041219-09	Lead	EPA 200.8	11.4	0.50	ug/L	15	Berlin Elementary School-09	9/28/16 05:16	10/21/16 11:47
N041219-11	Lead	EPA 200.8	6.70	0.50	ug/L	15	Berlin Elementary School-11	9/28/16 05:20	10/21/16 11:49
N041219-12	Lead	EPA 200.8	14.5	0.50	ug/L	15	Berlin Elementary School-12	9/28/16 05:21	10/21/16 12:01
N041219-13	Lead	EPA 200.8	2.52	0.50	ug/L	15	Berlin Elementary School-13	9/28/16 05:22	10/21/16 12:04
N041219-14	Lead	EPA 200.8	3.24	0.50	ug/L	15	Berlin Elementary School-14	9/28/16 05:23	10/21/16 12:06
N041219-16	Lead	EPA 200.8	25.5	0.50	ug/L	15	Berlin Elementary School-16	9/28/16 05:26	10/21/16 12:08
N041219-17	Lead	EPA 200.8	28.1	0.50	ug/L	15	Berlin Elementary School-17	9/28/16 05:26	10/21/16 12:11
N041219-18	Lead	EPA 200.8	13.9	0.50	ug/L	15	Berlin Elementary School-18	9/28/16 05:26	10/21/16 12:13
N041219-19	Lead	EPA 200.8	21.9	0.50	ug/L	15	Berlin Elementary School-19	9/28/16 05:27	10/21/16 12:15
N041219-21	Lead	EPA 200.8	4.57	0.50	ug/L	15	Berlin Elementary School-21	9/28/16 05:29	10/21/16 12:18
N041219-22	Lead	EPA 200.8	330	0.50	ug/L	15	Berlin Elementary School-22	9/28/16 05:30	10/21/16 12:23
N041219-23	Lead	EPA 200.8	4.71	0.50	ug/L	15	Berlin Elementary School-23	9/28/16 05:30	10/21/16 12:25
N041219-24	Lead	EPA 200.8	6.24	0.50	ug/L	15	Berlin Elementary School-24	9/28/16 05:30	10/21/16 12:37
N041219-25	Lead	EPA 200.8	6.17	0.50	ug/L	15	Berlin Elementary School-25	9/28/16 05:34	10/21/16 12:40
N041219-26	Lead	EPA 200.8	8.81	0.50	ug/L	15	Berlin Elementary School-26	9/28/16 05:34	10/21/16 12:42
N041219-27	Lead	EPA 200.8	3.05	0.50	ug/L	15	Berlin Elementary School-27	9/28/16 05:34	10/21/16 12:44

Stephen Withrow



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Total Metals by EPA 200.8

Date Received: 10/10/16 10:50

Sample ID#	Analysis	Method	Results	RL	Units	MCL	Sample Point	Sampled	Analyzed
N041219-28	Lead	EPA 200.8	21.1	0.50	ug/L	15	Berlin Elementary School-28	9/28/16 05:31	10/21/16 12:47
N041219-29	Lead	EPA 200.8	42.4	0.50	ug/L	15	Berlin Elementary School-29	9/28/16 05:33	10/21/16 12:49
N041219-30	Lead	EPA 200.8	19.7	0.50	ug/L	15	Berlin Elementary School-30	9/28/16 05:43	10/21/16 12:51
N041219-31	Lead	EPA 200.8	14.4	0.50	ug/L	15	Berlin Elementary School-31	9/28/16 05:43	10/21/16 12:54
N041219-32	Lead	EPA 200.8	33.3	0.50	ug/L	15	Berlin Elementary School-32	9/28/16 05:43	10/21/16 12:56
N041219-34	Lead	EPA 200.8	2.25	0.50	ug/L	15	Berlin Elementary School-34	9/28/16 05:44	10/21/16 12:59
N041219-35	Lead	EPA 200.8	29.1	0.50	ug/L	15	Berlin Elementary School-35	9/28/16 05:45	10/21/16 13:11
N041219-36	Lead	EPA 200.8	4.35	0.50	ug/L	15	Berlin Elementary School-36	9/28/16 05:46	10/21/16 13:13
N041219-37	Lead	EPA 200.8	2.53	0.50	ug/L	15	Berlin Elementary School-37	9/28/16 05:46	10/21/16 13:15
N041219-38	Lead	EPA 200.8	23.0	0.50	ug/L	15	Berlin Elementary School-38	9/28/16 05:42	10/21/16 13:18
N041219-39	Lead	EPA 200.8	20.1	0.50	ug/L	15	Berlin Elementary School-39	9/28/16 05:42	10/21/16 13:22
N041219-40	Lead	EPA 200.8	16.6	0.50	ug/L	15	Berlin Elementary School-40	9/28/16 05:47	10/21/16 13:25
N041219-41	Lead	EPA 200.8	32.4	0.50	ug/L	15	Berlin Elementary School-41	9/28/16 05:49	11/2/16 15:59
N041219-42	Lead	EPA 200.8	80.5	0.50	ug/L	15	Berlin Elementary School-42	9/28/16 05:50	11/2/16 16:01
N041219-43	Lead	EPA 200.8	24.4	0.50	ug/L	15	Berlin Elementary School-43	9/28/16 05:37	10/21/16 13:27

Stephen Witkowski



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Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Reporting Detection Limit (RDL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
<	Less than reporting limit
≤	Less than or equal to reporting limit
>	Greater than reporting limit
≥	Greater than or equal to reporting limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
MCL/AL	Maximum Contaminant Level/Action Level
mg/kg wet	Results reported as wet weight
TTLC	Total Threshold Limit Concentration
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leachate Procedure

All work performed by New Jersey Analytical Laboratories LLC, is subject to our terms and conditions of services viewable at our office and our website: <http://www.njal.com/About-NJAL/Terms-and-Conditions.aspx>

POTABLE WATER SAMPLING FOR LEAD CONCENTRATION SAMPLE COLLECTION FORM

Appendix D

Page 1 of 2

41219-39

CLIENT INFORMATION

Name: Berlin Central School District
 Address: 17400 Route 22, Cherry Plain, NY 12040
 Client Rep: Cyril Grant 518-658-3322

Date of Sampling: 9/28/2016
 Samples Taken By: Sam Beardsley
 Samples Taken By: Craig Hansen
 District Staff: Cyril Grant

Pb & Cu 43

SCHOOL/PROJECT INFORMATION

BLDG NO./NAME: Berlin Elementary School
 BLDG ADDRESS: 53 School Street, Berlin, NY 12022
 CONTACT NAME & NUMBERS: Cyril Grant 518-658-3322

(1) Yr. Built	(2) Yr 1st Add:	(3) Yr 2nd Add:	(4) Yr 1st Mod:	(5) Yr. 2nd Mod:

NO#10, 15, 20, 33

DIGEST #41 & 42

SAMPLE DATA

Sample Description ID (ID must match container label)				Outlet Information									
Lab Sample #	BOCES Sample #	Location	Outlet Description	Outlet Make & Model	Construct. Date	First Draw	Time of Collection (24hr)	30 Second Flush Draw	Time of Collection (24hr)	Service Connection Draw	Time of Collection (24hr)	Water Main Draw	Time of Collection (24hr)
1	BES-01-CF-P-01	118	Sink Faucet			X	05:10						
2	BES-01-BF-P-02	Boy's Restroom	Bathroom Faucet			X	05:10						
3	BES-01-BF-P-03	Boy's Restroom	Bathroom Faucet			X	05:12						
4	BES-01-BF-P-04	Boy's Restroom	Bathroom Faucet			X	05:12						
5	BES-01-BF-P-05	114a	Bathroom Faucet			X	05:14						
6	BES-01-CF-P-06	112	Sink Faucet			X	05:15						
7	BES-01-DW-P-07	112	Sink Bubbler			X	05:15						
8	BES-01-CF-P-08	111	Sink Faucet			X	05:16						
9	BES-01-DW-P-09	111	Sink Bubbler			X	05:16						
10	BES-01-DW-P-10	113 Corridor	Water Cooler	limited filter		X	05:16						DELETED 005
11	BES-01-BF-P-11	Principal's Office	Bathroom Faucet			X	05:20						
12	BES-01-BF-P-12	Nurse's Office	Bathroom Faucet			X	05:21						
13	BES-01-CF-P-13	110 Music	Sink Faucet			X	05:22						
14	BES-01-BF-P-14	New Handicap Restroom	Bathroom Faucet			X	05:23						
15	BES-01-DW-P-15	Girls Restroom Corridor	Water Cooler	limited filter		X	05:23						DELETED 005
16	BES-01-BF-P-16	Girls Restroom	Bathroom Faucet			X	05:26						
17	BES-01-BF-P-17	Girls Restroom	Bathroom Faucet			X	05:26						
18	BES-01-BF-P-18	Girls Restroom	Bathroom Faucet			X	05:26						
19	BES-01-BF-P-19	Women's Faculty Restroom	Bathroom Faucet			X	05:27						
20	BES-01-DW-P-20	Cafeteria Corridor	Water Fountain	Left handle indicates cold		X	05:27						DELETED 005
21	BES-01-BF-P-21	Men's Faculty Restroom	Bathroom Faucet			X	05:29						
22	BES-01-BF-P-22	106	Bathroom Faucet			X	05:30						
23	BES-01-CF-P-23	106	Sink Faucet			X	05:30						
24	BES-01-CF-P-24	106	Sink Faucet			X	05:30						
25	BES-01-SF-P-25	Kitchen	Sink Faucet			X	05:34						

All containers are pre-cleaned/pre-certified 250ml plastic bottles and will be preserved w/HNO3@ pH by lab

CHAIN OF CUSTODY

Relinquished By: *[Signature]* Received By: *[Signature]* Time: 1030 Date: 11/29/16
 10-6-16

All water coolers shut down for PFOA testing. Results to be reported.

INSTRUCTIONS TO THE LABORATORY - Analyze all samples for both lead and copper (Pb and Cu)

Lab: CNA Environmental
 Contact: Dakota Snyder 518-884-0800 x402
 Comments: Provide Laboratory Data Report (LDR) and Chain of Custody

CLIENT INFORMATION

Name: Berlin Central School District
 Address: 17400 Route 22, Cherry Plain, NY 12040
 Client Rep: Cyril Grant 518-658-3322

Date of Sampling: 9/28/2016
 Samples Taken By: Sam Beardsley
 Samples Taken By: Craig Hansen
 District Staff: Cyril Grant

SCHOOL/PROJECT INFORMATION

BLDG NO./NAME: Berlin Elementary School
 BLDG ADDRESS: 53 School Street, Berlin, NY 12022
 CONTACT NAME & NUMBERS: Cyril Grant 518-658-3322

(1) Yr. Built: (2) Yr 1st Add: (3) Yr 2nd Add: (4) Yr 1st Mod: (5) Yr. 2nd Mod:

SAMPLE DATA

Sample Description ID (ID must match container label)				Outlet Information									
Lab Sample #	BOCES Sample #	Location	Outlet Description	Outlet Make & Model	Construct. Date	First Draw	Time of Collection (24hr)	30 Second Flush Draw	Time of Collection (24hr)	Service Connection Draw	Time of Collection (24hr)	Water Main Draw	Time of Collection (24hr)
26	BES-01-SF-P-26	Kitchen	Sink Faucet			X	05:34						
27	BES-01-SF-P-27	Kitchen	Sink Faucet			X	05:34						
28	BES-01-CF-P-28	107	Sink Faucet			X	05:31						
29	BES-01-CF-P-29	108	Sink Faucet			X	05:35						
30	BES-02-BF-P-30	Girl's Restroom	Bathroom Faucet			X	05:43						
31	BES-02-BF-P-31	Girl's Restroom	Bathroom Faucet			X	05:43						
32	BES-02-BF-P-32	Girl's Restroom	Bathroom Faucet			X	05:43						
<i>No sample</i>	BES-02-BF-P-33	200 Corridor	Water Cooler			X	05:43						<i>Deleted 005</i>
34	BES-02-BF-P-34	New Handicap Restroom	Bathroom Faucet			X	05:44						
35	BES-02-BF-P-35	Tech Office Restroom	Bathroom Faucet	<i>faucet dripping</i>		X	05:45						
36	BES-02-CF-P-36	203	Sink Faucet			X	05:46						
37	BES-02-CF-P-37	203	Sink Faucet			X	05:46						
38	BES-02-BF-P-38	Boy's Restroom	Bathroom Faucet			X	05:47						
39	BES-02-BF-P-39	Boy's Restroom	Bathroom Faucet			X	05:47						
40	BES-02-BF-P-40	Boy's Restroom	Bathroom Faucet			X	05:47						
41	BES-02-CF-P-41	210	Sink Faucet	<i>Turbid</i>		X	05:49						
42	BES-02-CF-P-42	202	Sink Faucet			X	05:50						
<i>43</i>		<i>Kitchen Steam Table</i>	Water Cooler			X	<i>05:37</i>						

All containers are pre-cleaned/pre-certified 250ml plastic bottles and will be preserved w/HNO3@ pH by lab

CHAIN OF CUSTODY

Relinquished By: _____ Received By: *BAC* Time: *10:30* Date: *10-6-16*

INSTRUCTIONS TO THE LABORATORY - Analyze all samples for both lead and copper (Pb and Cu)

Lab: CNA Environmental
 Contact: Dakota Snyder 518-884-0800 x402
 Comments: Provide Laboratory Data Report (LDR) and Chain of Custody