



CERTIFICATE OF ANALYSIS

Customer : Strategic Environmental
25 Butternut Lane
Bayville, NJ 08721

Project ID : Cedar Drive Middle School, 73 Cedar Drive
PAS Project ID : P21-12144

Matrix : Drinking Water
Report Date : 11/12/2021

PAS Sample ID	Client ID	Analysis	Results	Units	DF	PQL	MDL	MCL	Method	Date Sampled	Date Analyzed
P21-12144-01	Field Blank Middle School	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 08:57	11/8/21 11:32
P21-12144-02	1. CD1 FP Kitchen 1	Lead	15.0	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 08:58	11/8/21 11:36
P21-12144-03	2. CD2 FP Kitchen 2	Lead	77.9	ug/L	10	20.0	8.99	15.0 *	SM 3113 B	11/4/21 08:58	11/8/21 13:40
P21-12144-04	3. CD3 DWWC Lunch Room	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 08:59	11/8/21 12:01
P21-12144-05	4. CD4 NS Sink	Lead	8.44	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:00	11/8/21 12:05
P21-12144-06	5. CD5 FP TL Rm 6	Lead	1.25 J	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:02	11/8/21 12:08
P21-12144-07	6. CD6 WC Gym	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:03	11/8/21 12:12
P21-12144-08	7. CD7 DWWC Rm 12	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:05	11/8/21 12:16
P21-12144-09	8. CD8 DWWC Hall-1	Lead	1.03 J	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:06	11/8/21 12:19
P21-12144-10	9. CD9 DWWC Hall-2	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:06	11/8/21 12:23
P21-12144-11	10. CD10 FP Sink Library	Lead	5.83	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:10	11/8/21 12:27
P21-12144-12	11. CD11 DWWC Rm 44-1 Hall	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:14	11/8/21 12:38
P21-12144-13	12. CD12 DWWC Rm 44-2 Hall	Lead	1.25 J	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:14	11/8/21 12:42
P21-12144-14	13. CD13 DWWC Rm 41-1	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:16	11/8/21 12:46
P21-12144-15	14. CD14 DWWC Rm 47-2	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	11/4/21 09:16	11/8/21 12:49

Except for the parameters tested, PAS makes no representation as to the fitness or quality of the water sample taken.

PQL = Practical Quantitation Limit
MDL = Minimum Detection Limit
MCL = Maximum Contaminant Level
DF = Dilution Factor
ND = Analyzed for but not detected
J = Estimated result
* Federal Action Level

All samples are analyzed in accordance with
New Jersey Department of Environmental
Protection Protocol

Mark D. Feitelson, Lab. Director

Appendix D
Excel Template for Lead Results

Client : Strategic Environmental
Project ID : Cedar Drive Middle School, 73 Cedar Drive

Field ID	Flushed (Y/N)	Lab. Sample ID	Lab. Name	Lab. ID	Date Sampled	Time Sampled	Analytical Method	Date of Analysis	Time of Analysis	Conc. (ug/L)	Rpt. Limit (ug/L)	DF	Digested (Y/N)	Qfr.
Field Blank Middle School	N	P21-12144-01	PAS	NJDEP 15001	11/4/2021	8:57	SM 3113 B	11/8/2021	11:32	-0.06	2.00	1	N	ND
1. CD1 FP Kitchen 1	N	P21-12144-02	PAS	NJDEP 15001	11/4/2021	8:58	SM 3113 B	11/8/2021	11:36	15.0	2.00	1	N	
2. CD2 FP Kitchen 2	N	P21-12144-03	PAS	NJDEP 15001	11/4/2021	8:58	SM 3113 B	11/8/2021	13:40	77.9	20.0	10	N	
3. CD3 DWWC Lunch Room	N	P21-12144-04	PAS	NJDEP 15001	11/4/2021	8:59	SM 3113 B	11/8/2021	12:01	0.380	2.00	1	N	ND
4. CD4 NS Sink	N	P21-12144-05	PAS	NJDEP 15001	11/4/2021	9:00	SM 3113 B	11/8/2021	12:05	8.44	2.00	1	N	
5. CD5 FP TL Rm 6	N	P21-12144-06	PAS	NJDEP 15001	11/4/2021	9:02	SM 3113 B	11/8/2021	12:08	1.25	2.00	1	N	J
6. CD6 WC Gym	N	P21-12144-07	PAS	NJDEP 15001	11/4/2021	9:03	SM 3113 B	11/8/2021	12:12	0.160	2.00	1	N	ND
7. CD7 DWWC Rm 12	N	P21-12144-08	PAS	NJDEP 15001	11/4/2021	9:05	SM 3113 B	11/8/2021	12:16	0.380	2.00	1	N	ND
8. CD8 DWWC Hall-1	N	P21-12144-09	PAS	NJDEP 15001	11/4/2021	9:06	SM 3113 B	11/8/2021	12:19	1.03	2.00	1	N	J
9. CD9 DWWC Hall-2	N	P21-12144-10	PAS	NJDEP 15001	11/4/2021	9:06	SM 3113 B	11/8/2021	12:23	0.380	2.00	1	N	ND
10. CD10 FP Sink Library	N	P21-12144-11	PAS	NJDEP 15001	11/4/2021	9:10	SM 3113 B	11/8/2021	12:27	5.83	2.00	1	N	
11. CD11 DWWC Rm 44-1 Hall	N	P21-12144-12	PAS	NJDEP 15001	11/4/2021	9:14	SM 3113 B	11/8/2021	12:38	0.590	2.00	1	N	ND
12. CD12 DWWC Rm 44-2 Hall	N	P21-12144-13	PAS	NJDEP 15001	11/4/2021	9:14	SM 3113 B	11/8/2021	12:42	1.25	2.00	1	N	J
13. CD13 DWWC Rm 41-1	N	P21-12144-14	PAS	NJDEP 15001	11/4/2021	9:16	SM 3113 B	11/8/2021	12:46	0.160	2.00	1	N	ND
14. CD14 DWWC Rm 47-2	N	P21-12144-15	PAS	NJDEP 15001	11/4/2021	9:16	SM 3113 B	11/8/2021	12:49	0.380	2.00	1	N	ND



Specialists in Drinking Water Testing Technologies • Residential • Industrial • Municipal

PRECISION ANALYTICAL SERVICES, INC.

2161 WHITESVILLE ROAD TOMS RIVER, NJ 08786 PHONE 732-914-1616 FAX 732-914-1616

CHAIN OF CUSTODY

Customer: Strategic Environmental
 Address: 25 Butternut Lane
 Bayville, NJ 08701
 Phone: (732) 539-7342

School Name: Cedar Drive Middle School
 School Address: 73 Cedar Drive
 Sampled By: [Signature]
 Print Name: J. Bonanno
 RESULTS TO: jbonnes@aol.com

Sample ID Location	Date / 17 Time Sampled	Matrix Code	Grab or Comp	Flask Sample	Filter Present	# Containers	Glass or Plastic	Analysis	LAB ID
Field Blank Middle School	11/4/11 8:57 am	DW	Grab			1	250 ml Plastic	Lead	
1 CD1 FP Kitchen 1	8:58	DW	Grab			1	250 ml Plastic	Lead	
2 CD2 FP Kitchen 2	8:58	DW	Grab			1	250 ml Plastic	Lead	
3 CD3 DWWC Lunch Room	8:59	DW	Grab			1	250 ml Plastic	Lead	
4 CD4 NS Sink	9:00	DW	Grab			1	250 ml Plastic	Lead	
5 CD5 FP TL Rm 6	9:02	DW	Grab			1	250 ml Plastic	Lead	
6 CD6 WC Gym	9:03	DW	Grab			1	250 ml Plastic	Lead	
7 CD7 DWWC Rm 12	9:05	DW	Grab			1	250 ml Plastic	Lead	
8 CD8 DWWC Hall-1	9:06	DW	Grab			1	250 ml Plastic	Lead	
9 CD9 DWWC Hall-2	9:06	DW	Grab			1	250 ml Plastic	Lead	
10 CD10 FP Sink Library	9:10	DW	Grab			1	250 ml Plastic	Lead	
11 CD DWWC R44-1 Hall	11 9:14	DW	Grab			1	250 ml Plastic	Lead	
12 CD DWWC Rm 44-2 Hall	12 9:14	DW	Grab			1	250 ml Plastic	Lead	
13 CD DWWC Rm 41-1	13 9:16	DW	Grab			1	250 ml Plastic	Lead	
14 CD DWWC Rm 47-2	14 9:16	DW	Grab			1	250 ml Plastic	Lead	

SAMPLES REC'D UNPRESERVED. PRESERVED IN LAB.

ALL First Draw

PDF Std. Reduc Full EDD

Date/Time Preserved with HNO3:

Page 1 of 1

Deliverables:

X

MATRIX CODES:

GW = Ground Water, WW = Waste Water, SW = Surface Water,
 DW = Drinking Water, S = Soil, L = Liquid, SD = Sludge,
 B = Blank, K = Solid (specify):

PREIER 0 = Ice 1 = HCl
 VATIVE 2 = H2SO4 3 = NaOH
 CODES: 4 = HNO3 5 = Other

	Print Name:	Signature:	Company:	Date + Time
Relinquished:	J. Bonanno SEC Inc.	[Signature]	PAS	11/4/11
Received:	Lynn Souza	[Signature]		10:14 am
Relinquished:				
Received:				
Relinquished:				
Received:				



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PRECISION ANALYTICAL SERVICES, INC.

2161 WHITESVILLE ROAD TOMS RIVER, NJ 08786 PHONE 732-914-1615 FAX 732-914-1616

CHAIN OF CUSTODY

Customer: Strategic Environmental
 Address: 25 Butternut Lane
 Bayville, NJ 08701
 Phone: (732) 539-7342

School Name: Cedar Drive Middle School
 School Address: 13 Cedar Drive
 Sampled By: [Signature]
 Print Name: [Signature]
 RESULTS TO: thones@aol.com

Sample ID Location	Date / /17 Time Sampled	Matrix Code	Grab or Comp	Flush Sample	Filter Present	# Containers	Glass or Plastic	Analysis	LAB ID
Field Blank Middle School	8:57 am	DW	Grab			1	250 ml Plastic	Lead	101
1 CD1 FP Kitchen 1	8:58	DW	Grab			1	250 ml Plastic	Lead	23
2 CD2 FP Kitchen 2	8:58	DW	Grab			1	250 ml Plastic	Lead	40
3 CD3 DWWC Lunch Room	8:59	DW	Grab			1	250 ml Plastic	Lead	14
4 CD4 NS Sink	9:00	DW	Grab			1	250 ml Plastic	Lead	10
5 CD5 FP TL Rm 6	9:02	DW	Grab			1	250 ml Plastic	Lead	2
6 CD6 WC Gym	9:03	DW	Grab			1	250 ml Plastic	Lead	21
7 CD7 DWWC Rm 12	9:05	DW	Grab			1	250 ml Plastic	Lead	26
8 CD8 DWWC Hall-1	9:06	DW	Grab			1	250 ml Plastic	Lead	27
9 CD9 DWWC Hall-2	9:06	DW	Grab			1	250 ml Plastic	Lead	40
10 CD10 FP Sink Library	9:10	DW	Grab			1	250 ml Plastic	Lead	25
11 CD DWWC R44-1 Hall	11 9:14	DW	Grab			1	250 ml Plastic	Lead	46
12 CD DWWC Rm 44-2 Hall	12 9:14	DW	Grab			1	250 ml Plastic	Lead	3
13 CD DWWC Rm 41-1	13 9:16	DW	Grab			1	250 ml Plastic	Lead	1
14 CD DWWC Rm 47-2	14 9:16	DW	Grab			1	250 ml Plastic	Lead	101

SAMPLES REC'D UNPRESERVED. PRESERVED IN LAB

PDF Std. PDF Reduc. PDF Full EDD

Date/Time received with HNO3

Page 1 of 1

Deliverables: X

MATRIX CODES: GW = Ground Water, WW = Waste Water, SW = Surface Water, DW = Drinking Water, S = Soil, L = Liquid, SD = Sludge, B = Blank, K = Solid (specify):

PRESERVE: 0 = Ice 1 = NOI
 VATIVE: 2 = H2SO4 3 = NaOH
 CODES: 4 = HNO3 5 = Other

	Print Name:	Signature:	Company:	Date + Time
Relinquished:	S. Baccaro SEC Inc.	[Signature]		11/14/17
Received:	Laura Souza	[Signature]		10:14 am
Relinquished:				
Received:				
Relinquished:				
Received:				

Cedar Drive
Middle School

H.iv: Sampling Event Checklist
Complete on the day of sampling

Before Beginning Sampling:

- Review and Sign QAPP.
- Review School packet prior to sampling- including floor plan with sample locations, outlet Inventory including all outlets to be sampled, filter inventory including which water coolers & drinking water fountains have filters, and if applicable pre-sampling event flushing schedule [includes which outlets were flushed, the duration of flushing, and when they were flushed].
- Perform a walk-through of the facility prior to sampling. Identify all outlets to be sampled, and label each outlet with its unique sample location code as it is found in the water outlet inventory.
- Verify that the water has been stagnant for at least 8 hours, but no longer than 48 hours.

Sampling:

- Field Blank.
- Start sampling at the outlet closest to the point of entry.
- For each sampling location record the time that sampling begins.
- Wearing gloves, collect samples into a 250 ml pre-cleaned bottle.
- Record the time all samples are collected.
- AFTER all other samples have been collected, for follow-up flush sampling, collect fifteen minute flushed samples from water coolers.
- Indicate on the Chain of Custody (COC) if the outlet is leaking, the water is discolored, the outlet is turned on, the outlet is not working, or the outlet has a filter.
- Label all Follow-Up Flush Samples with "FLUSH" after their unique sample location code. (e.g. WHS- and WHS - —FLUSH).

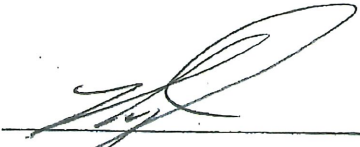
After Sampling:

- Record the time that sampling ends.
- Count sampling bottles to make sure all water outlets on the inventory were sampled.

Project Officer:

Thomas Giglio

Print Name



Signature

11/4/21

Date

Sampler:

J. Bonanno

Print Name



Signature

11/4/21

Date

Quality Assurance Project Plan (QAPP)
For
Drinking Water Sampling
of Lead Concentrations in School Drinking Water
Outlets

Cedar Drive Middle School
73 Cedar Drive Colts Neck NJ 07722

Approvals

School District Representatives:

Program Manager: _____

Print Name

Signature

Date

Project Manager(s): Thomas Giglio _____ 11/4/21

Print Name

Signature

Date

Individual School Project Officer(s) (See page iii)

Third Party Sampling Firm: SEC Inc.

(Note N/A if Third Party not involved)

Name of Firm

J Bonanno _____ 11/4/21

Print Name

Signature

Date

Laboratory: PAS Labs Inc.

Name of Laboratory

Laboratory Manager: Mark Feitelson _____ 11/4/21

Print Name

Signature

Date

Laboratory QA Officer: Kelly Hagan _____ 11/4/21

Print Name

Signature

Date

For additional laboratories conducting sampling and or analysis use additional sheet for sign-off.