United States Environmental Protection Agency

Safe Drinking Water Act 1414(c)(5) Data Submission Form For Exceedance of Lead Level at Household(s)

This form is to be completed when EPA receives sampling data from a source other than a state or public water system (PWS). The purpose is to collect information so EPA can send it to the PWS/state so they can disseminate required information to the household and take any follow-up steps. If information is not available or is unknown, please indicate as such on the form.

Contact Information

1. Name of contact providing the information:	2. EPA Contact Reviewing the Information:
CDM Smith	Mike Schock
1A. Contact Email:	2A. EPA Contact Email:
Not Available	schock.michael@epa.gov
1B. Contact Phone Number:	2B. EPA Contact Phone Number:
Not Available	513-569-7412

1C. Contact Address:

110 Fieldcrest Ave, #8, 6th Floor, Edison, NJ 08837

Household Information

3. Enter the sample address below.

3A. Street house & Number:

Personal Matters / Ex. 6

3B. City or Town:	3C. State:	3D. Zip Code:
Newark	NJ	07112

4. Describe the reason for the sample collection (e.g., received consumer notice that water system exceeded lead action level, nearby school conducted sampling and I wanted to check my water):

Investigative sampling conducted by consultant to Newark Water and Sewer

5. Indicate the type of household where the sample was collected (e.g., single family, multifamily home, apartment complex):	6. Enter the age of the building/home:
Single Family	Built 1922

7. Is the household occupied?	7A. If not, how long has it been unoccupied?
☐ Yes ☐ No	

8. Enter contact information for the resident or owner/property manager (if a rental property) below.

8A. Name of Contact:	8B. Contact Email:
Not Available	Not Available
8C. Contact Phone Number:	8D. Address (If different from Contact Information section above):
Not Available	

9. Name of the public water system (ask if the resident receives a water bill):

Newark Water and Sewer

Plumbing Information

10. If known, indicate the water pipe material from within the household (e.g., lead, copper, plastic, PEX):

PEX, Cu, LSL

11. If known, explain any recent changes to the household plumbing (e.g., replaced pipes, fixed leak):

None

12. Does the household have a point of use (POU)/point of entry (POE) devices?

☐ Yes ☐ No ☐ Unknown

12A. If yes, indicate the type of treatment (e.g., reverse osmosis, water softener, etc.):	12B. If yes, was the water filter bypassed when the sample was collected?
	☐ Yes ☐ No

Sample Collection Information

13. Enter the date and time of the sample collection:	14. Name of Sample Collector:
9/10/18	Sandra Kutzing and Patricia Hogan

15. Where was the sample collected? (e.g., kitchen, bathroom, drinking fountain):

Kitchen

16. Describe the sampling protocols that were followed (e.g., first draw, flush, stagnation period, etc.):

10 minute flush prior to 9 hr and 50 min stagnation, then sequential profile samples were collected.

17. What was the sample volume?

500 mL

18. Describe what was done to preserve the sample after collection (e.g., immediately sealed containers, left sealed samples out in room temperature, sent samples to lab in timely manner, etc.):

Samples were sent to lab in timely manner.

Analytical Results Information

19. Enter contact information for the laboratory that is analyzing the sample below.

19A. Name of the laboratory:

Agra Environmental and Laboratory Services

19B. Name of contact: Mike Furrey	19C. Contact Email: MFurrey@agra.us
19D. Contact Phone Number: 937-989-0010	19E. Contact Address: 90 1/2 West Blackwell St., Dover, NJ 07801
20. Is the laboratory EPA certified for lead analysis? ☐ Yes ☐ No If yes, enter certification number: NJ Laboratory Certification ID # 14013	21. What analytical method did the laboratory use to analyze the sample? SM3113B
22. What is the laboratory hold time? 14-15 days	23. Was analysis conducted using a formal chain of custody? ☐ Yes ☐ No If yes, please attach documentation.
24. Is there a copy of the laboratory report? ☐ Yes ☐ No	

Sample ID	Cumulative Volume (L)	Total Lead (µg/L)	Soluble Lead (µg/L)
A1	0.5	93.1	16.2
A2	1.0	107	24.6
A3	1.5	111	29.4
A4	2.0	72.2	29.1
A5	2.5	101	42.5
A6	3.0	78.6	33.4
A7	3.5	138	43.4
A8	4.0	166	78.4
A9	4.5	197	102
A10	5.0	266	114
A11	5.5	296	134
A12	6.0	291	140
A13	6.5	352	74
A14	7.0	350	110
A15	7.5	399	138
Flush	8	50.5	76.6

Agra

Environmental and Laboratory Services

90 ½ West Blackwell St., Dover, New Jersey 07801
(973) 989-0010 P, (973) 989-0156 F

Analytical Results

Date: September 25, 2018

Client: City of Newark
Division of Sewers & Water Supply
Address: 1294 McBride Ave
Little Falls, NJ 07424

Sample description: Grab / 18091101-01
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga / M. Schrieks / J. MacDonald

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead (1st Draw)	SM3113B	**93.1 µg/L(1)**	15 µg/L	09/17/18	19:09	100	200 µg/L
Lead (Dissolved)	SM3113B	**16.2 µg/L**	5 µg/L	09/14/18	00:36	1	2 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:02	1	0.05 mg/L
Alkalinity	SM2320B	34.0 mg/L	--	09/12/18	10:43	1	5 mg/L
Conductivity	SM2510B	210 uMho/cm @ 25°C	--	09/13/18	15:43	1	5 uMho/cm

Sample description: Grab / 18091101-02
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**107 µg/L**	5 µg/L	09/13/18	19:28	10	20 µg/L
Lead (Dissolved)	SM3113B	**24.6 µg/L**	5 µg/L	09/14/18	00:44	2	4 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:02	1	0.05 mg/L

Sample description: Grab / 18091101-03
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**111 µg/L**	5 µg/L	09/13/18	19:42	10	20 µg/L
Lead (Dissolved)	SM3113B	**29.4 µg/L**	5 µg/L	09/14/18	00:44	2	4 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:02	1	0.05 mg/L

Sample description: Grab / 18091101-04
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**72.2 µg/L**	5 µg/L	09/13/18	19:53	4	8 µg/L
Lead (Dissolved)	SM3113B	**29.1 µg/L**	5 µg/L	09/14/18	01:12	2	4 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:03	1	0.05 mg/L

Sample description: Grab / 18091101-05
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**101 µg/L**	5 µg/L	09/13/18	20:18	10	20 µg/L
Lead (Dissolved)	SM3113B	**42.5 µg/L**	5 µg/L	09/14/18	01:23	4	8 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:04	1	0.05 mg/L

Sample description: Grab / 18091101-06
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**78.6 µg/L**	5 µg/L	09/13/18	20:35	4	8 µg/L
Lead (Dissolved)	SM3113B	**33.4 µg/L**	5 µg/L	09/14/18	01:31	2	4 µg/L
Copper	SM3111B	0.089 mg/L	1.3 mg/L	09/14/18	12:04	1	0.05 mg/L

Sample description: Grab / 18091101-07
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**138 µg/L**	5 µg/L	09/13/18	21:05	10	20 µg/L
Lead (Dissolved)	SM3113B	**43.4 µg/L**	5 µg/L	09/14/18	01:42	8	8 µg/L
Copper	SM3111B	0.112 mg/L	1.3 mg/L	09/14/18	12:04	1	0.05 mg/L

Sample description: Grab / 18091101-08
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**166 µg/L (1)**	5 µg/L	09/17/18	19:15	100	200 µg/L
Lead (Dissolved)	SM3113B	**78.4 µg/L**	5 µg/L	09/14/18	01:59	4	8 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:04	1	0.05 mg/L
Alkalinity	SM2320B	34.0 mg/L	--	09/12/18	10:44	1	5 mg/L
Conductivity	SM2510B	238 uMho/cm @ 25°C	--	09/13/18	15:45	1	5 uMho/cm

Sample description: Grab / 18091101-09
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**197 µg/L (1)**	5 µg/L	09/17/18	19:37	100	200 µg/L
Lead (Dissolved)	SM3113B	**102 µg/L**	5 µg/L	09/14/18	02:24	10	20 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:04	1	0.05 mg/L

Sample description: Grab / 18091101-10
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**266 µg/L**	5 µg/L	09/17/18	19:42	100	200 µg/L
Lead (Dissolved)	SM3113B	**114 µg/L**	5 µg/L	09/14/18	02:43	10	20 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:05	1	0.05 mg/L

Sample description: Grab / 18091101-11
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**296 µg/L**	5 µg/L	09/17/18	19:48	100	200 µg/L
Lead (Dissolved)	SM3113B	**134 µg/L**	5 µg/L	09/17/18	20:24	10	20 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:05	1	0.05 mg/L

Sample description: Grab / 18091101-12
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**291 µg/L**	5 µg/L	09/17/18	19:53	100	200 µg/L
Lead (Dissolved)	SM3113B	**140 µg/L**	5 µg/L	09/17/18	20:43	10	20 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:05	1	0.05 mg/L

Sample description: Grab / 18091101-13
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**352 µg/L**	5 µg/L	09/17/18	19:59	100	200 µg/L
Lead (Dissolved)	SM3113B	**74.0 µg/L (1)**	5 µg/L	09/18/18	17:06	100	200 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:05	1	0.05 mg/L

Sample description: Grab / 18091101-14
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:00
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**350 µg/L**	5 µg/L	09/17/18	20:04	100	200 µg/L
Lead (Dissolved)	SM3113B	**110 µg/L**	5 µg/L	09/17/18	21:46	100	10 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:06	1	0.05 mg/L

Sample description: Grab / 18091101-15
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:03
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**399 µg/L**	5 µg/L	09/17/18	20:10	100	200 µg/L
Lead (Dissolved)	SM3113B	**138 µg/L**	5 µg/L	09/17/18	22:11	10	20 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:07	1	0.05 mg/L

Sample description: Grab / 18091101-16
Sample location: Personal Matters / Ex. 6
Sampled By: S. Lamond
Sample date: 09/10/18
Time: 18:14
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**50.5 µg/L**	5 µg/L	09/14/18	00:14	4	8 µg/L
Lead (Dissolved)	SM3113B	**76.6 µg/L**	5 µg/L	09/17/18	22:22	4	8 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:07	1	0.05 mg/L
Alkalinity	SM2320B	36.0 mg/L	--	09/12/18	10:46	1	5 mg/L
Conductivity	SM2510B	206 uMho/cm @ 25°C	--	09/13/18	15:46	1	5 uMho/cm

Sample description: Grab / 18091101-17
Sample location: Personal Matters / Ex. 6 Composite A/1& A/2)
Sampled By: S. Lamond
Sample date: --
Time: --:--
Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	**72.9 µg/L**	5 µg/L	09/14/18	00:31	4	8 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:08	1	0.05 mg/L

µg/L = micrograms per liter
mg/L = milligrams per liter

Notes: (1) Concentration level is estimated to dilution level. Value was greater than detection level but less than the lowest standard.

All testing was done within the required holding time.

I certify that these samples were analyzed in accordance with procedures approved by the New Jersey Department of Environmental Protection.

SusanVanVeen
Susan VanVeen, Lab Manager
NJ Laboratory Certification ID # 14013

9/25/18
Date

CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

#	Asc./HCl Vials	pH:	
#	HCl Vials	pH:	
#	$Na_2S_2O_3$	Cl_2:	
#	HNO_3	pH:	
#	H_2SO_4	pH:	
#	NaOH	pH:	
# 16	unpreserved		
#	other		
#	other		

Customer Name:	City of Newark	Report To:	Selene Samuel
Address:	620 Ridge Rd		
	Cedar Grove, NJ 07009		
County/Municipality:			
Phone:	973-239-4493		
Work:	Tricia: 201-675-7225		

Agra Environmental Services
90½ West Blackwell Street
Dover, NJ 07801
Phone: (973) 989-0010
Fax: (973) 989-0156

Matrix Abbreviations: D - Drinking Water G- Groundwater W- Wastewater S- Soil SL- Sludge P-Pool L-Lake

Project: Sequential Sampling | Collection | **PWSID# NJ0714001** | for laboratory use only | **Field Analysis**

Field ID	Lab ID:	Date	Time	Grab	Comp	Matrix	# of Bottles	Preservative	ANALYSIS REQUESTED	Cl_2	pH/T°C
50-52 Goldsmith Ave N	A/1	9/10/2018	18:00	X		D	1	none	Total & Dissolved Pb,Total Cu (all samples);	0.02	7.91/20.9°C
* Silica	A/2	9/10/2018		X		D	1	none	Alkalinity, Conductivity; **Silica (first, middle and final samples)		
	A/3	9/10/2018		X		D	1	none	**pH/temperature, Free Chlorine (first and final samples)		
	A/4	9/10/2018		X		D	1	none			
	A/5	9/10/2018		X		D	1	none	**pH/temperature, Free chlorine, and Silica analyzed by Newark		
	A/6	9/10/2018		X		D	1	none			
	A/7	9/10/2018		X		D	1	none		0.09	7.73/20.7°C
* Silica	A/8	9/10/2018		X		D	1	none			
	A/9	9/10/2018		X		D	1	none			
	A/10	9/10/2018	✓	X		D	1	none			

Sampled By (name/company): S. Lamond / Agra

State Forms Needed (circle one): Yes or (No)

NJDEP Laboratory Certification (Dover, NJ) #14013

NJDEP Laboratory Certification (Marlboro, NJ) #13033

indicate laboratory location where analysis requested was performed

Reporting Requirements (Check Box): Standard | NJ Reduced | Other (Specify)

Cooler Temperature Upon Receipt at lab: N/A °C

Sample Custody Exchanges (Please use full legal signature)

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	9/10/18	19:19	Julia MacDonald	9/11/18	0823

Scanned _____

Date Faxed _____

Invoice Number _____

Is sample known to be hazardous? (circle one) Yes or No

CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

Customer Name:	City of Newark	Report To:	Selene Samuel
Address:	620 Ridge Rd		
	Cedar Grove, NJ 07009		
County/Municipality:			
Phone:	973-239-4493		
Work:	Tricia: 201-675-7225		

Agra Environmental Services
90½ West Blackwell Street
Dover, NJ 07801
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Agra

Matrix Abbreviations: D - Drinking Water G- Groundwater W- Wastewater S- Soil SL- Sludge P-Pool L-Lake

Page 2 of 2

Project: Sequential Sampling | Collection | PWSID# NJ0714001 | for laboratory use only | Field Analysis

Field ID	Lab ID:	Date	Time	Grab	Comp	Matrix	# of Bottles	Preservative	ANALYSIS REQUESTED	Cl_2	pH/T°C
~~18091101~~ (IW) 18091101											
50-52 Goldsmith Ave N	A/11	9/10/2018		X		D	1	none	Total & Dissolved Pb,Total Cu (all samples);		
	A/12	9/10/2018		X		D	1	none	Alkalinity; Conductivity; **Silica (first, middle and final samples)		
	A/13	9/10/2018		X		D	1	none	**pH/temperature; Free Chlorine (first and final samples)		
	A/14	9/10/2018		X		D	1	none			
	A/15	9/10/2018	18:07	X		D	1	none	**pH/temperature, Free chlorine, and Silica analyzed by Newark		
Flushed 10min	A/16	9/10/2018	18:14	X		D	1	none		~~0.21~~	~~7.66/21.6°C~~
Silica		9/10/2018	—	X		D	1	none		—	—
Ph/Temp/Cl2 only		9/10/2018	18:16	X		D	1	none		0.21	7.66/21.6°C
no Sample		9/10/2018		X		D	1	none			
		9/10/2018		X		D	1	none			

Sampled By (name/company): S. Lamond / Agra

State Forms Needed (circle one): Yes or No

indicate laboratory location where analysis requested was performed

NJDEP Laboratory Certification (Dover, NJ) #14013

NJDEP Laboratory Certification (Marlboro, NJ) #13033

Reporting Requirements (Check Box):	Standard		NJ Reduced		Other (Specify)		Cooler Temperature Upon Receipt at lab: N/A °C

Sample Custody Exchanges (Please use full legal signature)

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	9/10/18	19:19	Julia MacDonald	9/11/18	0823

Scanned _____

Date Faxed _____

Invoice Number _____

Is sample known to be hazardous? (circle one) Yes or No