

### LEAD IN POTABLE WATER SCREENING REPORT

INVESTIGATION FOR: Valentina Baldessarre

Archdiocese of Newark 171 Clifton Avenue

P.O. Box 9500 Newark, NJ 07104

SITE INVESTIGATED: St. Joseph/Fed Cap

8 St. Cloud Place

West Orange, NJ 07052

ASSESSMENT BY: Sarah Hutchins

Omega Environmental Services, Inc.

280 Huyler Street

South Hackensack, NJ 07606

INVESTIGATION

CONDUCTED: 7/21/2021

DATE OF REPORT: 8/26/2021

(Omega Project # 21-26070)

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#### **EXECUTIVE SUMMARY:**

The Archdiocese of Newark requested representative lead in water testing of potable water outlets at St. Joseph/Fed Cap located at 8 St. Cloud Place, West Orange, New Jersey, 07052.

Previous Testing

On May 4, 2017, Omega performed a screen testing of representative outlets. First draw and flush samples (30 second) were collected at thirty-eight (38) water fountains and sinks.

Results of most first draw samples analyzed were below the Lead and Copper Rule action level of 15 ppb. Twelve (12) first draw samples were above 15 ppb. Three (3) of the associated flush samples were above 15 ppb.

See report dated May 26, 2017.

Follow-up Current Testing (7/21/2021)

In order to further assess the building water outlets, follow-up testing of representative potable outlets was performed on July 21, 2021.

Reportedly most of the outlets were flushed the day prior to sampling. According to the custodian on the day of the sampling event, the Nurse's Office is not in use by students and was therefore not sampled. The Gym Bathroom sinks were not flushed and not sampled.

First draw and flush samples (30 second) were collected of 16 water fountains and sinks.

Results of most (15-out-of-16 total samples) first draw samples analyzed were below the Lead action level of 15 ppb. One (1) first draw sample result was above 15 ppb. The associated flush sample was below 15 ppb.

See Section 3 Discussion of Results

Applicable Corrective Action

The positive outlets should not be used by students/staff but should continue to be flushed daily or weekly pending re-test.

Water Management/Plumbing Plan

No water management/plumbing plan has been created for St. Joseph/Fed Cap.

#### 1 RESULTS TABLE:

Sample #	Location	1st draw (FD) or flush (FL)	Results (ppb)	LCR Action Level <sup>(1)</sup> (ppb)
01 FD	1st Floor – Girl's Bathroom Sink (Left)	FD	6.84	15
01 FL	1st Floor – Girl's Bathroom Sink (Left)	FL	NA	15
02 FD	1st Floor – Girl's Bathroom Sink (Center)	FD	7.38	15
02 FL	1st Floor – Girl's Bathroom Sink (Center)	FL	NA	15
03 FD	1st Floor – Girl's Bathroom Sink (Right)	FD	5.40	15
03 FL	1st Floor – Girl's Bathroom Sink (Right)	FL	NA	15
04 FD	1st Floor – Boy's Bathroom Sink (Left)	FD	1.79	15
04 FL	1st Floor – Boy's Bathroom Sink (Left)	FL	NA	15
05 FD	1st Floor – Boy's Bathroom Sink (Center)	FD	3.14	15
05 FL	1st Floor – Boy's Bathroom Sink (Center)	FL	NA	15
06 FD	1st Floor – Boy's Bathroom Sink (Right)	FD	4.06	15
06 FL	1st Floor – Boy's Bathroom Sink (Right)	FL	NA	15
07 FD	1st Floor – Director's Office Sink	FD	2.15	15
07 FL	1st Floor – Director's Office Sink	FL	NA	15
08 FD	1st Floor – Principal's Office Bathroom	FD	7.73	15
08 FL	1st Floor – Principal's Office Bathroom	FL	NA	15
09 FD	1st Floor – Main Office Boy's Bathroom	FD	6.54	15
09 FL	1st Floor – Main Office Boy's Bathroom	FL	NA	15
10 FD	1st Floor – Main Office Girl's Bathroom	FD	5.66	15
10 FL	1st Floor – Main Office Girl's Bathroom	FL	NA	15
11 FD	Basement - Cafeteria Kitchen Small Handwash Sink	FD	2.04	15
11 FL	Basement - Cafeteria Kitchen Small Handwash Sink	FL	NA	15
12 FD	Basement - Cafeteria Kitchen Triple Sink Right Faucet	FD	ND	15
12 FL	Basement - Cafeteria Kitchen Triple Sink Right Faucet	FL	NA	15
13 FD	Basement – Cafeteria Kitchen Prep Sink (Left)	FD	2.03	15
13 FL	Basement - Cafeteria Kitchen Prep Sink (Left)	FL	NA	15
14 FD	Basement - Cafeteria Kitchen Ice Machine	FD	ND	15
14 FL	Basement - Cafeteria Kitchen Ice Machine	FL	NA	15
15 FD	Basement – Girl's Bathroom Sink	FD	16.2	15
15 FL	Basement – Girl's Bathroom Sink	FL	9.14	15
16 FD	Basement – Boy's Bathroom Sink	FD	2.82	15
16 FL	Basement – Boy's Bathroom Sink	FL	NA	15

<sup>(1)</sup> EPA Lead in Copper Rule (1991) Action Level for water suppliers (municipalities and private wells) and March 2016 Newark Public Schools Lead Water Testing Sampling Plan.

FD – First Draw Sample

FL – Flush Sample (30 sec)

ND – Indicates that the analyte was not detected at the reporting limit

NA – Not Analyzed

#### 2 SAMPLING METHODOLOGY:

First Draw Samples - Without allowing any water to spill until sample collection, samples were collected with a relatively slow flow rate in 250 mL bottles prepared with Nitric Acid (HNO<sub>3</sub>) as a preservative.

Flush Samples – After collection of first draw samples the water was allowed to flow at a relatively slow rate for thirty second to flush the fixture and close piping. The flush samples are intended to test the plumbing further upstream from the fixture (behind walls).

The samples were packaged in a cooler and shipped to EMSL Analytical, Inc. in Cinnaminson, NJ for total lead in potable water analysis (method E200.8 IOC).

#### 3 DISCUSSION OF RESULTS:

One (1) first draw sample result was above 15 ppb. The associated flush sample was below 15 ppb. This indicates the source of lead is related to the fixtures themselves, not in the main building plumbing.

#### 4 **RECOMMENDATIONS:**

Short term:

- Take any outlets with elevated results out of service.
- Conduct further evaluation, flushing, and testing of outlets with elevated results.

Contact Omega Environmental to discuss specific recommendations.

Long Term:

- If additional testing shows similar results (first draw results above 15 ppb) consider replacing the spout of the fountains (may contain brass, adding to lead levels), installing filters (if practical), or fixture replacement.
- Repeat full building testing on an annual basis. Generally, this should be performed in August prior to the start of the school season.
- Develop a Lead in Water Management Plan in accordance with the 2006 EPA 3Ts for Reducing Lead in Drinking Water in Schools.

# A. Lead in Water Laboratory Reports



200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: La

Omega Environmental Services 280 Huyler Street South Hackensack, NJ 07606

Phone: (201) 489-8700 Fax: (201) 489-8797

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/27/2021. The results are tabulated on the attached data pages for the following client designated project:

Arch of Newark/ St. Joseph/ Fed Cap/ 21-26070

The reference number for these samples is EMSL Order #012108506. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

Report amended 08/26/2021 10:55:02 Replaces initial report from 08/10/2021 20:33:05 Sample location revised per client request.

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report (may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

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8/26/2021



 200 Route 130 North, Cinnaminson, NJ 08077

 Phone/Fax:
 (856) 303-2500 / (856) 858-4571

 <a href="http://www.EMSL.com">http://www.EMSL.com</a>
 EnvChen</a>

EMSL Order: 012108506 OMEG50 CustomerID: CustomerPO: 21-26070

ProjectID:

Attn: Lab Omega Environmental Services 280 Huyler Street South Hackensack, NJ 07606

Phone: (201) 489-8700 (201) 489-8797 Fax: Received: 7/27/2021 09:00 AM

Project: Arch of Newark/ St. Joseph/ Fed Cap/ 21-26070

#### **Analytical Results**

		Analytical	results					
Client Sample Description	n 01 FD 1st floor Girl's Bathroom Sink	(Left)	Collected:	7/21/2021 9:26:00 AM	Lai	b ID:	012108506-0	0001
Method	Parameter	Result	RL Unit	ts	Prep Date & Ar		Analysi Date & Ana	
METALS								
200.8	Lead	6.84	1.00 µg/L	-	8/9/2021	VD	8/10/2021 12:52	VD
Client Sample Description	n 02 FD 1st floor Girl's Bathroom Sink	(Center)	Collected:	7/21/2021 9:28:00 AM	Lai	b ID:	012108506-0	0003
Method	Parameter	Result	RL Unit	ts	Prep Date & Ar		Analysi Date & An	
METALS								
200.8	Lead	7.38	1.00 µg/L	-	8/9/2021	VD	8/10/2021 13:00	VD
Client Sample Description	n 03 FD 1st floor Girl's Bathroom Sink	(Right)	Collected:	7/21/2021 9:29:00 AM	Lai	b ID:	012108506-0	0005
Method	Parameter	Result	RL Unit	ts	Prep Date & Ar		Analysi Date & An	
METALS								
200.8	Lead	5.40	1.00 µg/L		8/9/2021	VD	8/10/2021 13:03	VD
Client Sample Description	n 04 FD 1st floor Boy's Bathroom Sinl	k (Left)	Collected:	7/21/2021 9:32:00 AM	Lai	b ID:	012108506-0	0007
Method	Parameter	Result	RL Unit	ts	Prep Date & Ar		Analysi Date & Ana	
METALS								
200.8	Lead	1.79	1.00 µg/L		8/9/2021	VD	8/10/2021 13:06	VD
Client Sample Description	n 05 FD 1st floor Boy's Bathroom Sinl	k (Center)	Collected:	7/21/2021 9:34:00 AM	Lai	b ID:	012108506-0	0009
Method	Parameter	Result	RL Unit	rs	Prep Date & Ar		Analysi Date & An	
METALS								
200.8	Lead	3.14	1.00 µg/L		8/9/2021	VD	8/10/2021 13:08	VD

ChemSmplw/RDL/NELAC-2.19.0.0 Printed: 8/26/2021 10:55:02 AM

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EnvChemistry2@emsl.com

EMSL Order: 012108506 OMEG50 CustomerID: CustomerPO: 21-26070 ProjectID:

Phone: (201) 489-8700 (201) 489-8797

7/27/2021 09:00 AM

Attn: Lab Omega Environmental Services 280 Huyler Street South Hackensack, NJ 07606

Project: Arch of Newark/ St. Joseph/ Fed Cap/ 21-26070

Fax:

Received:

	Ar	nalytical	Results					
Client Sample Description	06 FD 1st floor Boy's Bathroom Sink (Right)		Collected:	7/21/2021 9:36:00 AM		b ID:	012108506-0	0011
Method	Parameter	Result	RL Unit	s	Prej Date & Ai		Analysi Date & An	
METALS								
200.8	Lead	4.06	1.00 μg/L		8/9/2021	VD	8/10/2021 13:13	VD
Client Sample Description	07 FD 1st floor Director's Office Sink		Collected:	7/21/2021 9:38:00 AM		b ID:	012108506-0	0013
Method	Parameter	Result	RL Unit	s	Prej Date & Ai		Analysi Date & An	
METALS								
200.8	Lead	2.15	1.00 μg/L		8/9/2021	VD	8/10/2021 13:19	VD
Client Sample Description	08 FD 1st floor Principal's Office Bathroom		Collected:	7/21/2021 9:42:00 AM		b ID:	012108506-0	0015
Method	Parameter	Result	RL Unit	s	Prep Date & A		Analysi Date & An	
METALS								
200.8	Lead	7.73	1.00 μg/L		8/9/2021	VD	8/10/2021 13:21	VD
Client Sample Description	09 FD 1st floor Main Office Boy's Bathroom		Collected:	7/21/2021 9:46:00 AM		b ID:	012108506-0	0017
Method	Parameter	Result	RL Unit	s	Prej Date & Ai		Analysi Date & An	
METALS								
200.8	Lead	6.54	1.00 μg/L		8/9/2021	VD	8/10/2021 13:24	VD
Client Sample Description	10 FD 1st floor Main Office Girl's Bathroom		Collected:	7/21/2021 9:48:00 AM		b ID:	012108506-0	0019
Method	Parameter	Result	RL Unit	s	Prej Date & Ai		Analysi Date & An	
METALS								
200.8	Lead	5.66	1.00 μg/L		8/9/2021	VD	8/10/2021 13:29	VD

ChemSmplw/RDL/NELAC-2.19.0.0 Printed: 8/26/2021 10:55:02 AM



200 Route 130 North, Cinnaminson, NJ 08077 

EMSL Order: 012108506 CustomerID: OMEG50 CustomerPO: 21-26070

ProjectID:

Attn: Lab Omega Environmental Services 280 Huyler Street

South Hackensack, NJ 07606

(201) 489-8700 Phone: (201) 489-8797 7/27/2021 09:00 AM Received:

Project: Arch of Newark/ St. Joseph/ Fed Cap/ 21-26070

Analyt	ical	Results
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		Analytical	Results					
Client Sample Description		afeteria Kitchen Small Hand Wash	Collected:	7/21/2021 9:50:00 AM		b ID:	012108506-0	0021
Method	Parameter	Result	RL Unit	's	Prep Date & A		Analysi Date & An	
METALS								
200.8	Lead	2.04	1.00 µg/L		8/9/2021	VD	8/10/2021 13:36	VD
Client Sample Description		afeteria Kitchen Triple Sink Right	Collected:	7/21/2021 9:52:00 AM		b ID:	012108506-0	0023
Method	Parameter	Result	RL Unit	's	Prej Date & Al		Analysi Date & An	
METALS								
200.8	Lead	ND	1.00 µg/L		8/9/2021	VD	8/10/2021 13:44	VD
Client Sample Description		afeteria Kitchen Prep Sink (Left)	Collected:	7/21/2021 9:54:00 AM		b ID:	012108506-0	0025
Method	Parameter	Result	RL Unit	's	Prej Date & Al		Analysi Date & An	
METALS								
200.8	Lead	2.03	1.00 µg/L		8/9/2021	VD	8/10/2021 13:46	VD
Client Sample Description		afeteria Kitchen Ice Machine	Collected:	7/21/2021 9:56:00 AM		b ID:	012108506-0	0027
Method	Parameter	Result	RL Unit	s	Prej Date & Al		Analysi Date & An	
METALS								
200.8	Lead	ND	1.00 µg/L		8/9/2021	VD	8/10/2021 13:49	VD
Client Sample Description		irl's Bathroom Sink	Collected:	7/21/2021 9:58:00 AM		b ID:	012108506-0	0029
Method	Parameter	Result	RL Unit	's	Prep Date & A		Analysi Date & An	
METALS								
200.8	Lead	16.2	1.00 µg/L		8/9/2021	VD	8/10/2021 13:51	VD

ChemSmplw/RDL/NELAC-2.19.0.0 Printed: 8/26/2021 10:55:02 AM

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200 Route 130 North, Cinnaminson, NJ 08077 

EMSL Order: 012108506 OMEG50 CustomerID: CustomerPO: 21-26070

ProjectID:

(201) 489-8700

(201) 489-8797

7/27/2021 09:00 AM

Attn: Lab Omega Environmental Services 280 Huyler Street

South Hackensack, NJ 07606

Project: Arch of Newark/ St. Joseph/ Fed Cap/ 21-26070

**Analytical Results** 

Phone: Fax:

Received:

Client Sample Description	15 FL Basement Girl's Bathroom Sink			7/21/2021 :58:00 AM	Lab	ID:	012108506-0	030
Method	Parameter	Result	RL Units		Prep Date & An		Analysis Date & Ana	
METALS								
200.8	Lead	9.14	1.00 µg/L	-	8/9/2021	VD	8/10/2021 13:53	VD
Client Sample Description	16 FD Basement Boy's Bathroom Sink			7/21/2021 :02:00 AM	Lab	ID:	012108506-0	031
Method	Parameter	Result	RL Units		Prep Date & An		Analysis Date & Ana	

2.82

1.00 µg/L

8/9/2021

VD

8/10/2021

13:54

VD

#### Definitions:

METALS

200.8

MDL - method detection limit

Lead

J - Result was below the reporting limit, but at or above the MDL ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)
 D - Dilution Sample required a dilution which was used to calculate final results

# OrderID: 012108506

## Lead Chain of Custody EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

012/08506

PHONE: (800) 220-3675

Customer ID:  Company Name: Omega Environ	mental	Billin E Con	74.0	ga Environmental		
Company Name: Omega Environ Contact Name: Street Address: 280 Huyler Street	imentai	0	g Contact	ga Environmental		
Street Address: 280 Huyler Stre	act	Stre		luyler Street		
	. NJ 07606 Country: U	ISA B City	2001	ackensack, NJ 0760	e Icov	intry: USA
City, State, Zip: S. Hackensack Phone: 201-489-8700	, 143 07000	ISA Pho	0.116	489-8700	0	7 00/
Email(s) for Report 1 - b Common			ZU 1-4			
Lab@omega-e	env.com, sarahh@omega-env	Project Informatio	apte	omega-env.com		
roject Arch of Newark/ S	t Joseph/ Fed Can/ 2	THE RESIDENCE OF THE PARTY OF T		Purchase		
MSL LIMS Project ID:	t. Josephi i eu Capi z	US State	where	Order: State of Connecticut (CT) must se	elect project loca	ation:
applicable, EMSL will ovide)		samples	collected: NJ	Commercial (Taxable)		iential (Non-Taxable
ampled By Name: Sarah Hutchir	Sampled By Signature:	Sauch	bilit	5	No. of Sampl in Shipmen	iles 32
		urn-Around-Time (T	AT)	-0	100	T-00/T-00
3 Hour 6 Hour Please of	24 Hour 32 Hour all sheed for large projects and/or turnaround times 6 Hou	48 Hour	72 Hour	96 Hour mpiles must be submitted by 11:30am.	1 Week	2 Week
MATRIX	METHOD	INST	RUMENT	REPORTING LIMIT	SE	LECTION
HIPS 14 by wt. ppm (mg/kg) mg/cm²	SW 846-7000B	Flame Ato	mic Absorption	0.008% (80ppm)		
Reporting Limit based on a minimum .25g sample weight	SW 846-6010D*	IC	P-OES	0.0004% (4ppm)		
esi amihin nediri	NIOSH 7082	Flame Ato	mic Absorption	4µg/filter	-	
ID.		7 100 7 100		- Parinter		
JR .	NIOSH 7300M / NIOSH 7303M		P-OES	0.5µg/filter		
	NIOSH 7300M / NIOSH 7303M	100000000000000000000000000000000000000	CP-MS	0.05µg/filter	-	
VIPE ASTM NON-ASTM	SW 846-7000B	Flame Ato	mic Absorption	10µg/wipe		
f no box is checked, non-ASTM Wipe is ssumed	SW 846-6010D*	IC	P-OES	1.0µg/wipe		
CLP	SW 846-1311 / 7000B / SM 3111B		mic Absorption	0.4 mg/L (ppm)		
	SW 846-1311 / SW 846-6010D*		P-OES	0.1 mg/L (ppm)	-	
PLP	SW 846-1312 / 7000B / SM 3111B SW 846-1312 / SW 846-6010D*		mic Absorption P-OES	0.4 mg/L (ppm) 0.1 mg/L (ppm)	+	H
	22 CCR App. II, 7000B		mic Absorption	40mg/kg (ppm)	-	
TLC	22 CCR App. II, SW 846-6010D*		P-OES	2mg/kg (ppm)		
TLC	22 CCR App. II, 7000B	2.555333355572	mic Absorption	0.4 mg/L (ppm)		
manus	22 CCR App. II, SW 846-6010D* SW 846-7000B	1/2	P-OES mic Absorption	0.1 mg/L (ppm)	-	H
oil	SW 846-7000B SW 846-6010D*		P-OES	40mg/kg (ppm) 2mg/kg (ppm)		H
Vastewater	SM 3111B / SW 846-7000B		mic Absorption	0.4 mg/L (ppm)		
Inpreserved	EPA 200.7	IC	P-OES	0.020 mg/L (ppm)		
reserved with HNO3 PH<2	EPA 200.5	IC	P-OES	0.003 mg/L (ppm)	-	
poreserved	of another transportation	38	CP-MS	0.001 mg/L (ppm)		
reserved with HNO3	C7127		XXXXXXXXXX	Supplies (Walleton)		7
SP/SPM Filter	40 CFR Part 50	IC	P-OES	12 µg/filter		Ц
ther:					1	
Sample Number	Sample Location	,		olume / Area	Date / Tim	ne Sampled
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Saran Hutchins	101 (1010) (1010	1 12:30	CP 718	261217:55 pm		~
elinquished by:	Date/Time:	Reci	Fillepin	07127121 Dete	9 : 00	w
ontrolled Document - COC-25 Lead R16 4/19/2021	*6010C Availabl			1-11-1	1 10	

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# Lead Chain of Custody EMSL Order Number / Lab Use Only

012/08506

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: CinnaminsonLeadLab@emsl.com

	Date/Time	a	Received by:		hed by:
	Date/Time .	a	Received by:	S Date/Time 7/21/21 12:30	shed by Sarah Hutchins
		eipt	Sample Condition Upon Receipt		
€	7 0 dar	<u>_</u>	Trees	Main Office Boy's Bethrough	FD
	0942			11 11	
	0942		Khoom	Principal's office bethroom	60
	0938			1 11 11	
	0938			Director's Office Sink	67 Fb Di
	0936		- ,	11 11	
	0136		XK CON	Boy'S Bathroom Sink (rish)	
	0534			" " "	FL
	0534		K (center)	Bay's Bathroom Sink Kenter	
	0932			1	
	0432		(tas)	Boy's Bathroom Sink (Laft)	04 FD B
	6930			" " "	
	1260		K (RIGHT)	Girl's Bathroom Sink Probt	0 07 60
	8290			11 11 11	02 FL
	8200		ak (Conter)	id's Bathroom S.	02 FD 6
	9260		(14+>	Girl's Buthroom Six (Left)	01 FL 6
1st Floor	1/21 0926	250mL	(Laft)	irl's Bathroom sink	02 FD 6
Notes	Date / Time Sampled	Volume / Area		Sample Location	Sample Number
NOT SAMPLED & CERTAIN	Result > 1 Sppb	aw Sample +	ing first Dr	14+85+ Aush Sample if the corresponding First Draw Sample Result > 1 6ppb	J+est Aush Sampl

Lead Chain of Custody

EMSL Analytical, Inc.

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