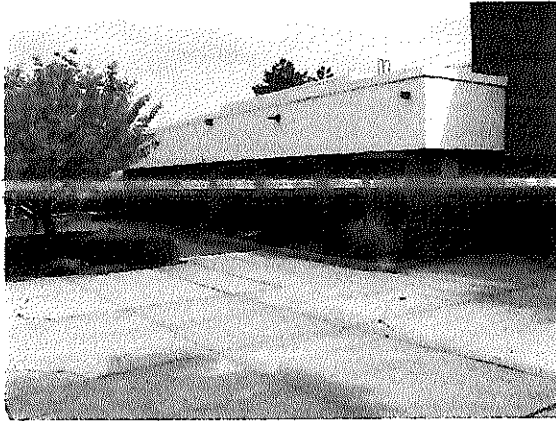


Attendees:

Robert Fahley, BPS Engineer
Erwin Smieszek, EPA New Jersey Office – Sampling Lead

Building Photo and Description:



Bayonne High School – Ice Rink is a sports facility built in 1986. To the left is a photo of the front entrance taken by EPA.

BPS Sampling/Analytical Results/Remediation:

BPS staff conducted sampling of Bayonne High School – Ice Rink on April 7, 2014. Sampling began on the 1st floor and then the 2nd floor where BPS collected 500mL first draw samples for a total of 10 sampled outlets. Analytical results were compared to the EPA Lead and Copper Rule (LCR) action limit of 15ppb. Two (2) results exceeded the 15ppb action limit, the fountain in the girls locker room (290ppb) and the fountain in the boys locker room (81ppb – scanned result is not clear). Both fountains were replaced and retested by BPS.

EPA Objective and Observations:

Although BPS had conducted sampling, analysis and remediation of some outlets within BPS, the approach used did not follow the Region 2 Children's Health Initiative - EPA 3T's Lead in Drinking Water program. The objective of the pre-sampling walk-thru is to locate the cold water (CW) potable outlets and determine if these outlets are leaking and require repair (see underlined outlets below) by BPS prior to EPA sampling. EPA also noted whether the outlets were remediated (i.e. removed, replaced).

The attached floor diagram displays the approximate locations of the building's water main entry, water meter and potable water outlets. The water main (roadway between ice rink and annex) enters the 1st floor where the water meter is located, and continues to the remainder of the building. There is no in-line water filter or central chiller (to pre-chill the water) prior to water distribution. Plumbing diagrams are not available, therefore, EPA made an educated guess as to the water piping layout and water distribution through-out the building (see floor diagram).

All CW outlets were observed for leaks, drips, spray pattern, color, temperature (warm/cold), tempered water devices, screens, point of use (POU) filters. There are no outside drinking fountains, water features or lawn sprinkler system.

Note: Some bathrooms have outlet motion sensors and are tempered.

Note: Bathrooms/Custodial outlets are not sampled and are only noted if repair is required.

1 st Floor	Room	Water Main (enters from roadway between Annex and Ice Rink) and Meter (Brass)
	Hallway	Chiller outside Locker Room D. No compressor.
	Locker Rm A	Chiller. No compressor.
	Locker Rm Home	Chiller. No compressor.
	Hallway	Chiller outside Men/Women Bathrooms.
	Gym	Chiller (facing left). No compressor.
		Chiller (facing right). No compressor.
	Boys Locker Rm	Bubbler. BPS replaced.
	Girls Locker Rm	Bubbler. BPS replaced.
	Aux Gym	<u>Chiller turned off. BPS did not sample. Should be sampled.</u>
	Hallway	Chiller in Main Hallway (across from Elevator). No compressor.
2 nd Floor	Hallway	Chiller outside Men/Women Bathrooms.
	Dance	<u>Bubbler not working (sign – do not use). BPS did not sample. Should be sampled.</u>

Note: Some bathrooms have outlet motion sensors and are tempered.

Note: Bathrooms/Custodial outlets are not sampled and are only noted if repair is required.

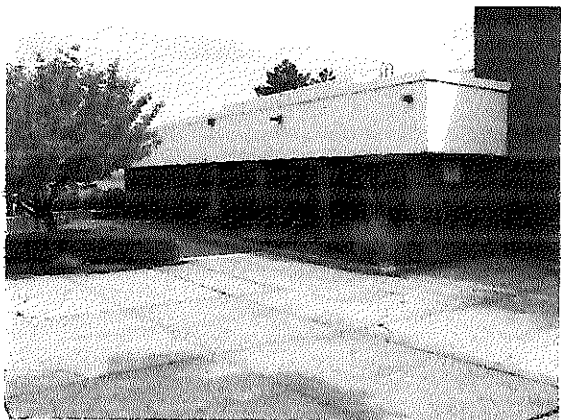
1 st Floor	Room	Water Main (enters from roadway between Annex and Ice Rink) and Meter (Brass)
	Hallway	Chiller outside Locker Room D. No compressor.
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	Boys Locker Rm	Bubbler. BPS replaced.
	Girls Locker Rm	Bubbler. BPS replaced.
	Aux Gym	<u>Chiller turned off. BPS did not sample. Should be sampled.</u>
	Hallway	Chiller in Main Hallway (across from Elevator). No compressor.
2 nd Floor	Hallway	Chiller outside Men/Women Bathrooms.
	Dance	<u>Bubbler not working (sign – do not use). BPS did not sample. Should be sampled.</u>

Aux Gym & Dance Room - PERMANENTLY Shut down

Attendees:

Mike Kubert, BPS Superintendent Buildings & Grounds Foundation
Scott Nolan, BPS BOE Code Compliance Supervisor
Mike Plaskon, BPS Engineer
Erwin Smieszek, EPA New Jersey Office – Sampling Lead
Robert Morrell, EPA New Jersey Office – Sampler

Building Photo and Description:



Bayonne High School – Ice Rink is a sports facility built in 1986. To the left is a photo of the front entrance taken by EPA on June 3, 2015.

Pre-Sampling Walk-thru:

On Wednesday, June 3, 2015, Erwin Smieszek (Lead) conducted a Lead in Drinking Water pre-sampling walk-thru of Richard Korpi Ice Rink. See June 4, 2015 pre-sampling report for objectives and observations.

Sampling Day Introductions/General Conditions

Prior to the sampling event, it was determined that the BPS would not be flushing the outlets.

On Monday, April 18, 2016, EPA Inspectors Erwin Smieszek (Inspection Lead) and Robert Morrell conducted a Lead in Drinking Water sampling event at the Richard Korpi Ice Rink. EPA met and presented credentials to BPS Mike Kubert, Scott Nolan and Mike Plaskon. Mr. Kubert, Mr. Nolan and Mr. Plaskon accompanied EPA during the sampling event. Mr. Kubert stated that no water was used from the building since after the building was locked at 7:30pm by Jessie Gallagher on April 17, 2016. There were no do not use water signs posted at the Door #38 entrance/exit area where EPA/BPS entered to indicate that water sampling was to be conducted.

Sampling Design/Process and Observations:

The water main is located on the first floor. Water sampling would begin with the outlet closest to the water main and continue downstream (see Chain of Custody and Floor Diagrams).

A field reagent blank (FRB) was collected in the Hallway by Locker Room D (near sample 01/02) and then water samples were collected. For each outlet sampled, initial and follow-up (30 second) cold-water samples were collected in separate pre-cleaned certified HDPE 250mL wide mouth

containers. Sample codes were either written with permanent marker or labels were placed under each (or next to) sampled outlet. Mr. Smieszek provided sampling observations to Mr. Kubert as sampling progressed. Additional sampling information can be found on the attached Floor Diagram and Chain of Custody (COC) form.

	Sample Number	Location	Comments (also see Floor Diagrams/Chain of Custody)
1 st Floor.	00	Hallway by Locker Room D	Field Reagent Blank.
1 st Floor	1/2	Hallway Chiller by Locker Room D	Elkay m/n E8RC-8-1 s/n 850239280 Chiller appears to be older model and is not listed in 3Ts Appendix E. No POU filter observed.
Note 1: Locker Room A chiller and Locker Room 1 chiller were removed. Note 2: Locker Room A Bathroom sink had a cold water drip every 2 seconds.			
1 st Floor	3/4	Hallway Chiller by Stairwell 50	Elkay m/n EZSDWS-1F s/n 160124971 Chiller has bubbler and bottle dispenser. Sampled bubbler. No POU filter observed.
Note: Custodial slop sink (between girls/boys bathroom) had cold water drip.			
1 st Floor	5/6	Chiller in Girls Gym (Community Education)	Two chillers. Sampled Left chiller. Elkay. No POU filter observed.
Note 1: Boys Locker room fountain and Girls locker room fountain each had Lexan (plexi-glass) secured by screws. The Lexan covered the entire fountain so that they could not be used. No samples collected. Both fountains are to be removed per M. Kubert. Note 2: Auxiliary Gym chiller was shut off. No samples collected.			
1 st Floor	7/8	Hallway Chiller by Elevator	Elkay m/n EHFS_A_8_1 s/n 920632565 No POU filter observed.
Note 1: 2 nd Floor Hallway Chiller by Men's/Women's Bathroom was removed. Note 2: 2 nd Floor Dance Room Elkay Chiller was shut off. No samples collected.			

No sampling deviations were made from the EPA Quality Assurance Project Plan (QAPP). No photos were taken.

After sampling complete, bathrooms were checked (sinks/toilets – motion sensor) for water leaks. Mr. Kubert stated on March 23, 2016 that BPS has for the past few weeks begun a daily flushing routine at all schools. School custodians will flush all outlets (except bathrooms/slop sinks) prior to student arrival for approximately 60 seconds.

Four (4) potable water outlets, for a total of eight (8) (initial and follow-up) plus one (1) Field Reagent Blank were collected. All samples were preserved with nitric acid (HNO₃) to a pH < 2 at the EPA Laboratory.

Attachments

- Chain of Custody (1 page)
- Building Floor Diagrams (2 pages)

CLIENT INFORMATION

Name: Bayonne Public Schools
Address: 669 Avenue A, Bayonne, NJ 07002
Client Rep: Dr. Patricia McGeehan, Superintendent of Schools

EPA INFORMATION

Name: US Environmental Protection Agency - Region 2
Address: 2890 Woodbridge Ave., Edison, NJ 08837
Proj. Mgr: John Kushwara

LDG/PROJECT INFORMATION

LDG ID: _____
LDG No./Name: Richard Korpi Ice Rink
LDG Address: 669 Avenue A, Bayonne NJ 07002
Contact Name & Numbers: Mike Kubert 201.858.5582 mkubert@bboed.org
Yr. Built: 1986 **(1) Yr. 1st Add.:** _____ **(2) Yr. 2nd Add.:** _____ **(3) Yr. 1st Mod.:** _____ **(4) Yr. 2nd Mod.:** _____

INSPECTOR(S): Erwin Smieszek (Lead) & Bob Morrell

SAMPLING DATE: Monday, April 18, 2016

SAMPLE DATA

Sample Description ID (ID must match container label)						Outlet Information					
Sample #	Floor	Functional Space Code	INBY	Room Number	Construc. Code	Sample/Outlet Code	Sampled Outlet Location/Coordinates number and Serial number	Model	0 Seconds	30 Seconds	Time of collection (24hr)
EJS											
00	IR	FRBLANK					Richard Korpi (Sample #142)				0447
01	01	HABY LR RD 01 B					Empty w/ 1 ERK-A 9/18/02 239282				0447
02	01	HABY LR RD 02 B					empty filter by Luker (no ID)				
03	01	HABY STS 01 A					empty w/ 1 ERK-A 9/18/02 241971				0452
04	01	HABY STS 02 B					empty filter by Luker (no ID) - no results				
05	01	GY IN GIRL 01 B					ERK-A 200ml water in well - sampled 4/18/16				0505
06	01	GY IN GIRL 02 B					no results				
07	01	HABY ELEV 01 A					empty w/ 1 ERK-A 9/18/02 424632585				0516
08	01	HABY ELEV 02 A					empty filter by Elewator				
EJS											

If containers are pre-cleaned/pre-certified 250mL wide-mouth HDPE bottles.

CHAIN OF CUSTODY

Relinquished By: Erwin J. Smieszek 4/18/16	Received By: 	Date/Time: 4/18/16 0800
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All samples are preserved in Lab by W. RICKERT @ 9:15 AM on 4/18/16.

Method of shipment/delivery: Fed-Ex Hand Delivery US Mail UPS Courier Other

INSTRUCTIONS TO THE LABORATORY

<input checked="" type="checkbox"/> Analyze all samples.	Lab: US EPA - Region 2 2890 Woodbridge Ave. Edison, NJ 08837 Contact: Ness Tirol	Report Results to:
<input checked="" type="checkbox"/> Follow QAPP instructions		Phone (732) 321-6686
<input type="checkbox"/> Lab to preserve with HNO ₃ at pH<2		Email: kushwara.john@epa.gov
<input type="checkbox"/> Other:		

Comments: Provide Laboratory Data Report (LDR)

CODES REFERENCE TABLES

Table 1. OUTLET/ PLUMBING/ SAMPLE CODE				Table 2. FUNCTIONAL SPACE	
CODE	TYPE OF OUTLET OR PLUMBING	INITIAL SCREENING (1 st DRAW) SAMPLE	FOLLOW-UP SAMPLES	CODE	FUNCTIONAL SPACE
S	Service Connection to Distribution Main	IS	1M	KI	Kitchen
A	Bubblers Without Central Chiller	1A	2A	GY	Gymnasium
B	Bubblers with Central Chiller	1B	2B	CF	Cafeteria
-	Central Chiller Unit	-	3B, 4B	TC	Teachers' Cafeteria
C	Water Cooler	1C	2C, 3C, 4C	BC	Boys' Cafeteria
D	Bottled Water Dispensers	1D	2D	GC	Girls' Cafeteria
E	Ice Making Machines	1E	2E	CR	Classroom
F	Water Faucets (Tap)	1F	2F	HA	Hallway
	Interior Plumbing			BR	Bathroom
G	Laterals	-	1G	GB	Girls' Bathroom
H	Headers	-	1H	BB	Boys' Bathroom
I	Loops	-	1I	RM	Room
J	Risers	-	1J	OF	Office
				LB	Laboratory
				LI	Library
				MO	Medical Office
				BO	Boiler Room
				LR	Locker Room
				NM	Natatorium
				WP	Water Meter Pump Room
				SS	Slop Sink

Table 3. FLOOR CODE	
CODE	FLOOR
SB	Sub-Basement
BS	Basement
MZ	Mezzanine
01	1 st Floor
02	2 nd Floor
03	3 rd Floor
04	4 th Floor, etc.

Table 4. CONSTRUCTION DATE CODE	
CODE	CONSTRUCTION
0	Original Construction
1	1 st Addition
2	2 nd Addition
3	1 st Modernization
4	2 nd Modernization

NOTE: EPA typically samples the highlighted outlets in Table 1.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory
2890 Woodbridge Avenue
Edison, New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

May 02, 2016

John Kushwara
Monitoring & Assessment Branch
DESA/MAB
Edison, NJ 08837

RE: BPS-Richard Korpi Ice Rink-1604030

Enclosed are the results of analyses for samples received by the laboratory on 04/18/2016. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1603046 and contact the laboratory.

Sincerely,

A handwritten signature in cursive script, appearing to read "John R. Bourbon".

John R. Bourbon
Chief, DESA/LB

<---Please click here to complete the EPA Region 2 Lab Project Survey--->



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: BPS-Richard Korpi Ice Rink-1604030

Project Number: 1603046

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAP established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAP Standards.

Condition Comments

None

Comment(s):

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: BPS-Richard Korpi Ice Rink-1604030

Project Number: 1603046

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
00 - IR-FRBLANK	1604030-01	Aqueous	04/18/2016 04:47	04/18/2016 08:00
0101HABYLKRD01B	1604030-02	Aqueous	04/18/2016 04:49	04/18/2016 08:00
0201HABYLKRD02B	1604030-03	Aqueous	04/18/2016 04:49	04/18/2016 08:00
0301HABYST5001B	1604030-04	Aqueous	04/18/2016 04:58	04/18/2016 08:00
0401HABYST5002B	1604030-05	Aqueous	04/18/2016 04:58	04/18/2016 08:00
0501GYINGIRL01B	1604030-06	Aqueous	04/18/2016 05:05	04/18/2016 08:00
0601GYINGIRL02B	1604030-07	Aqueous	04/18/2016 05:05	04/18/2016 08:00
0701HABYELEV01B	1604030-08	Aqueous	04/18/2016 05:16	04/18/2016 08:00
0801HABYELEV02B	1604030-09	Aqueous	04/18/2016 05:16	04/18/2016 08:00



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: BPS-Richard Korpi Ice Rink-1604030

Project Number: 1603046

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.8 SOP C-112 Rev 3.3	NELAP	Aqueous



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: BPS-Richard Korpi Ice Rink-1604030

Project Number: 1603046

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: 00 - IR-FRBLANK				
Sample ID: 1604030-01				
Metals ICPMS				
Lead	—	U	1.0	ug/L
Field ID: 0101HABYLKRD01B				
Sample ID: 1604030-02				
Metals ICPMS Hallway chiller by locker Room D				
Lead	1.1		1.0	ug/L
Field ID: 0201HABYLKRD02B				
Sample ID: 1604030-03				
Metals ICPMS Hallway chiller by locker Room D				
Lead	1.2		1.0	ug/L
Field ID: 0301HABYST5001B				
Sample ID: 1604030-04				
Metals ICPMS Hallway chiller by stairwell door 5C				
Lead	1.6		1.0	ug/L
Field ID: 0401HABYST5002B				
Sample ID: 1604030-05				
Metals ICPMS Hallway chiller by stairwell door 5C				
Lead	—	U	1.0	ug/L
Field ID: 0501GYINGIRL01B				
Sample ID: 1604030-06				
Metals ICPMS Main gym - left chiller				
Lead	2.3		1.0	ug/L
Field ID: 0601GYINGIRL02B				
Sample ID: 1604030-07				
Metals ICPMS				



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: BPS-Richard Korpi Ice Rink-1604030

Project Number: 1603046

Analyte		Result	Qualifier	Reporting Limit	Units
Field ID: 0601GYINGIRL02B		Sample ID: 1604030-07			
Metals ICPMS	Main gym - left chiller				
Lead	2nd draw	--	U	1.0	ug/L
Field ID: 0701HABYELEV01B		Sample ID: 1604030-08			
Metals ICPMS	Hallway chiller by elevator				
Lead	1st draw	--	U	1.0	ug/L
Field ID: 0801HABYELEV02B		Sample ID: 1604030-09			
Metals ICPMS	Hallway chiller by elevator				
Lead	2nd draw	--	U	1.0	ug/L