

November 29, 2021

Rodney Thacker
Construction Administrator
Illinois Department of Corrections
1301 Concordia Ct.
Springfield, IL 62702

Re: IDOC-EPA Water testing
Preliminary Report
Stateville Correctional Center

Dear Mr. Thacker:

I am submitting this preliminary report to provide a status of our work completed to date concerning the testing of the potable water sources within the Stateville Correctional Center (Stateville). Our proposed scope of work was to be completed in two phases. The first phase included a review of the recent analytical results for potable water samples and testing of the same locations.

The sampling program at the Stateville facility is conducted on a semiannual schedule in accordance with the Illinois Environmental Protection Agency (EPA) requirements for community water supplies. In June of 2021, samples were collected from potable water taps within the Stateville facility by a third-party vendor and delivered to Suburban Laboratories for analysis. Five of the samples for copper exceeded the regulatory Action Level (AL) of 1,300 ug/L. A second sampling event was conducted by the third-party vendor in October 2021. During that time, Andrews Engineering was contracted to review the June analytical results and conduct an independent sampling event.

Andrews staff arrived at the Stateville facility at 10:00am on Thursday, November 4, 2021. Steven Edwards and Angelo Buscaglia, both of Andrews Engineering, Inc., were escorted to the office of the Chief Engineer, Mr. Jermiagh (Jerry) Daly. Upon meeting Chief Daly, the validation sampling procedure was discussed before being escorted to the potable water tap locations. The procedure included Mr. Buscaglia collecting the samples while Mr. Edwards oversaw the efforts and documented with notes and photos. The samples were collected after each faucet was opened and run for approximately five (5) minutes. After the five minutes, Mr. Buscaglia opened the lab provided bottle and filled the sample container. Seven (7) samples were taken within areas accessible by the general prison population, four (4) samples were taken from the NRC Electricians, Carpenter and Plumber's facility, one (1) sample from the NRC Motor Pool bathroom, three (3) samples in the NRC Powerhouse and the remaining five (5) collected in the NRC Facility.

In total, twenty (20) samples were collected. Mr. Buscaglia placed the samples in a sealed cooler containing ice and delivered the samples to the Eurofins TestAmerica analysis lab in University Park, IL. Documentation of the sampling protocol and laboratory procedures will be provided in a separate report with the analytical results when sampling is completed.

A table and graph of sampling results for lead and copper were provided to you by email on November 12th. The table includes the results from five (5) previous sampling events and the recent sampling event performed by Andrews Engineering. The accompanying graph illustrates the trends in concentrations for the four (4) locations that exceeded the copper AL of 1,300 ug/L in the recent Andrews event. Lead concentrations at each of the 20 sampling locations were less than the AL of 15 ug/L. The graph and table are included with this update.

The following locations exceeded the copper AL of 1,300. All values are given in ug/L.

LP2J047	VISITOR'S CENTER BATHROOM	2,900
LP2J038	NRC LOCKSMITH OFFICE SINK	1,500
LP2J051	MSU ELECTRICIAN ROOM	2,300
LP2J046	MSU INMATE VISITING BATHROOM*	2,700

The MSU Inmate Visiting Bathroom is the only location of the four (4) that historically had elevated concentrations of copper detected in the tap samples. The most recent testing result is 2,700 ug/L and is 30 to 60 ug/L from the mean and median of the historical data. The remaining three (3) locations do not have a history of copper concentrations exceeding the AL.

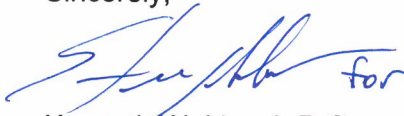
As we discussed in conference calls November 10 and 11, 2021 the testing results from the October sampling event are not consistent with the historical analytical results. Based on the results of the Andrews sampling event, the entire October event appears to be an outlier. The analytical results do not require immediate action under 40 CFR Part 141 Subpart I, Lead and Copper Rule. However this information must be included in the annual consumer confidence report. I recommend a follow up sampling event using consistent sampling and analysis protocols for seven (7) of the twenty (20) tap water locations.

Our scope of work included a second phase to complete follow up testing and provide written recommendation for preventative measures necessary to comply with the Lead and Copper Rule. Andrews's staff will prepare a document containing recommended sampling procedures consistent with recommendations and guidance published by the US EPA, Illinois EPA and Department of Public Health.

In addition we will prepare a plan to evaluate the existing plumbing, source water (service) connection and provide recommendations based on our findings. I would like to schedule a site visit to document the former and conduct the follow up sampling event the week of December 8, 2021.

We can discuss at any time. I can be reached directly at (217) 862-2505.

Sincerely,



Kenneth W. Liss, L.P.G.
President

KWL:ndd



Illinois Department of Corrections Stateville Correctional Center Analytical Results

Sample ID	Sample Location	12/9/2019 (ug/L)		6/20/2020 (ug/L)		12/12/2020 (ug/L)		6/29/2021 (ug/L)		10/26/2021 (ug/L)		Andrews 11/7/2021 (ug/L)	
		Lead	Copper	Lead	Copper	Lead	Copper	Lead	Copper	Lead	Copper	Lead	Copper
ACTION LEVEL		15	1300	15	1300	15	1300	15	1300	15	1300	15	1300
LP3R019	CHIEF ENGINEER OFFIC	2.63	615	< 2	< 100	< 2	< 100	2.49	312	3.87	< 100	1.5	61
LP2J044	ROLL CALL RM. BATHROOM	< 2	< 100	7.55	< 100	2.8	< 100	2.27	< 100	8.09	< 100	0.63	21
LP3R020	TRAINING SCHOOL	3.77	< 100	5.66	178	7	< 100	5.05	176	5.68	< 100	3.7	44
LP3S002	PC VISITING ROOM	5.33	1240	14.3	1240	3.88	335	11.5	1020	< 2	192	1.2	190
LP3R013	MAINTANENCE SHOP	< 2	1190	< 2	1630	< 2	1410	< 2	1600	< 2	923	0.43	320
LP3S003	ADMINISTRATION BLDG	7.09	126	2.26	151	3.3	113	4.59	185	14.9	194	8	110
LP2J047	VISITOR'S CENTER BATHROOM	3.67	349	3.28	302	7.27	447	3.95	303	35.9	1820	8.3	2900
LP2J025PROBL	NRC NEW POWERHOUS	< 2	1420	< 2	2090		2030	< 2	1090	< 2	686	0.51	860
LP2J028	NRC MAIN BOILER RM.	< 2	946	< 2	1410	< 2	955	< 2	945	< 2	811	0.72	210
LP2J048	NEW POWER HOUSE BATHROOM	< 2	466	2.69	736	< 2	1220	< 2	566	11.7	383	0.47	350
LP2J038	NRC LOCKSMITH OFFICE SINK	< 2	1360	< 2	942	< 2	1120	5.57	1180	2.23	850	1.7	1500
LP2J027	NRC MAINT. PLUM. SHO	< 2	1560	< 2	1250	6.31	1450	< 2	1210	39.5	3170	1.9	710
LP2J051	MSU ELECTRICIAN ROOM			2.92	1020	< 2	1230	< 2	776	< 2	683	1.8	2300
LP2J036	NRC REFRIGERATION SHOP	< 2	283	4.38	367	4.55	1060	2.6	532	3.67	1120	1.6	1300
LP2J039	MOTOR POOL BATHROOM	< 2	918	7.92	1070	3.03	1360	2.74	1100	3.91	113	1.6	250
LP2J023	CONTROL CENTER BATH	< 2	1220	2.8	1550	< 2	1920	< 2	1970	28.3	1600	1	520
LP2J035	NRC LOBBY BATHROOM	< 2	1360	< 2	502	< 2	2580	< 2	1880	128	2440	0.42	1300
LP2J026	NRC REC. DOCK BATHR	< 2	269	< 2	1880	< 2	351	< 2	186	366	3280	0.29	480
LP2J025	NRC OFFICERS DINING	< 2	305	< 2	419	3.35	467	3.71	1910	226	3520	0.34	340
LP2J046	MSU INMATE VISITING BATHROOM	< 2	3520	< 2	2760	2.23	2080	3.79	2590	30.6	2120	1.2	2700
LP2J040	NRC SOUTH SALLY PORT TOWER #108	< 2	1420										
XLE7102621	X House									3.48	847		
E71102621	E Block									0	631		
D538102621	D Block									0	280		
C237102621	C Block									2.83	347		
B214102621	B Block									2.02	265		
DIET102621	Kitchen Area									9.73	467		
HC102621	Hospital Break Area									2.26	352		

Comments:

< = not detected at or above the laboratory detection limit.

LP3S002 10/26/2021 results were revised to lab report values. From Pb = 11.5 & Cu = 1020 to Pb = 0 (ND) & Cu = 192

ILLINOIS DEPARTMENT OF CORRECTIONS STATEVILLE CORRECTIONAL CENTER

