



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO ATTENTION OF
ECW-15J

VIA ELECTRONIC MAIL
RETURN RECEIPT REQUESTED

Justin Ladner, President
Illinois American - East St. Louis
300 N. Waterworks Drive
Belleville, IL 62223
Justin.ladner@amwater.com

Subject: Safe Drinking Water Act EPA Inspection Report

Dear Justin Ladner:

On October 19, 2022, the U.S. Environmental Protection Agency conducted a compliance evaluation inspection of Illinois American - East St. Louis ("System"), PWSID IL1635040 located in Belleville, Illinois. The purpose of the inspection was to make observations about the site conditions, operation, and monitoring of the System to evaluate compliance with the Safe Drinking Water Act ("SDWA") and SDWA Section 1431 Unilateral Administrative Order, dated August 2, 2021. Please see the enclosed copy of our inspection report.

EPA appreciates the opportunity to work with you to provide drinking water that meets or exceeds national drinking water standards. Should you find anything in the report that you disagree with, or you wish to provide an update, please provide a detailed response within 30 days after receipt of the inspection report.

If you have questions or concerns regarding this letter or believe any part of the report is not accurate, please contact James Adamiec of my staff at (312) 886-0815 or adamiec.james@epa.gov.

Sincerely,
Elizabeth
Murphy

Elizabeth Murphy
Supervisor, Section 3
Water Enforcement and Compliance Assurance Branch

Digitally signed by
Elizabeth Murphy
Date: 2022.11.14
14:30:06 -06'00'

cc:

James Blessman, IEPA
Gayle Renth, IEPA
Elizabeth Murphy, EPA
Gillian Asque, EPA
Rachel Bretz, Illinois American - East St. Louis



REGION 5 Enforcement and Compliance Assurance Division

INSPECTION REPORT

Inspection Entry Date/Time:	October 18, 2022 / 1345	Announced: Yes				
Inspection Exit Date/Time:	October 19, 2022 / 1150	Access: Granted				
Weather:	Fair					
Media:	Water					
Statute(s)/Program(s):	Safe Drinking Water Act, Title 35 Illinois Administrative Code					
Type of Inspection:	CEI – Compliance Evaluation					
In-Person Inspection:	Yes					
System Name: Illinois American - East St. Louis						
System Physical Address: 300 N. Waterworks Drive, Belleville, IL 62223						
Facility/Site Identifier: 110013002035						
(City, state, zip code) Belleville, IL 62223						
County/Borough/Parish: St. Clair County						
Facility GPS Coordinates: 38.524531 , -90.039263						
Environmental Justice Area: Yes, for parts of the service area						
PWS ID: IL1635040						
Persons Participating in Inspection:						
Name	Title/Organization	Phone	Email	Present in Opening Conf.	Present in Closing Conf.	Present during Site Walkthrough
James Adamiec	Lead Inspector, EPA	312-886-0815	Adamiec.james@epa.gov	Yes	Yes	Yes
Thomas Swenson	Inspector, EPA	312-886-5265	Swenson.thomas@epa.gov	Yes	Yes	Yes
James Blessman	Inspector, IEPA	618-346-5120	James.t.blessman@illinois.gov	Yes	Yes	Yes
Sam Saucier	Manager, Water Quality	800-422-2782	Sam.saucier@amwater.com	Yes	Yes	Yes
Rachel Bretz	Director, Water Quality	800-422-2782	Rachel.bretz@amwater.com	Yes	Yes	Yes
Jeffrey King	Manager, Engineering	800-422-2782	Jeffrey.king@amwater.com	Yes	No	Yes, in part
Padma Paan	Manager, Engineering	800-422-2782	Padman.paan@amwater.com	Yes	No	No
Joseph Alvin	Manager, Operations	800-422-2782	Joseph.ahlvin@amwater.com	No	No	Yes, in part
Lead Inspector:						
James Adamiec		JAMES ADAMIEC Digitally signed by JAMES ADAMIEC Date: 2022.11.09 08:16:10 -06'00'				

	Region 5	Adamiec.james@epa.gov	312-886-0815
Supervisor Review:			
Elizabeth Murphy	Elizabeth Murphy	Digitally signed by Elizabeth Murphy Date: 2022.11.14 14:28:37 -06'00'	
	Region 5	Murphy.elizabeth@epa.gov	312-353-4227

SECTION I – INTRODUCTION

This Section describes the site entry, authority, and purpose of the inspection the system, and the system.

Site Entry and Inspection Objectives

EPA inspectors arrived at the **Ex 7f (Water Infra)** intake structure of Illinois American - East St. Louis (the “System” or “IAW”) at approximately 1:45 pm on October 18, 2022, for an announced inspection. A full opening conference was held on October 19, 2022, at 8:30 AM at the main office for the system, located at 300 N. Waterworks Dr, Belleville, IL 62223. James Adamiec presented credentials to System representatives and informed them that this was a Region 5 inspection to determine compliance with the Primacy Agency requirements and the Safe Drinking Water Act (SDWA). The inspection was conducted under the authority of the SDWA Section 1445. This report is based on information supplied by System representatives, observations made by the Region 5 inspector(s), and records and reports maintained by the System and Region 5 including: direct observations made by the Region 5 inspector(s), photographs taken by Region 5 inspector(s), physical evidence collected by the Region 5 inspector(s), measurements taken by Region 5 inspector(s), verbal or written statements made by information supplied by System representatives during or subsequent to the on-site Inspection, and materials, processes, data, photographs, or documents shown, demonstrated, or submitted to the Region 5 inspector(s) by System representatives during or subsequent to the on-site Inspection. In addition, information gathered prior to or subsequent to the Inspection from a review of USEPA, State, and public records may be included in this report.

The scope of the inspection was an onsite review of the water source, facilities, equipment, operation, maintenance, and monitoring compliance of a public water supply (PWS) to evaluate the adequacy of the PWS, its sources and operations, and the distribution of safe drinking water. The inspection was focused on verifying compliance with the SDWA Section 1431 Unilateral Administrative Order, dated August 2, 2021 (the “UAO”).

System Description

The Illinois Environmental Protection Agency maintains the Drinking Water Watch website which provides a record of the System’s owner, operator, and size. According to Illinois Drinking Water Watch, the System is

Inspection Date(s): October 18-19, 2022

owned by Illinois American Water, serves a population of approximately 139,879 people and has 51,100 service connections. The PWSID number is IL1635040. No violations have been recorded within the last five years. The System is a community water system as defined by 40 C.F.R., Part 141 Subpart A. EPA inspectors confirmed that system information had not recently changed.

The System is a surface water system and the source water is the Mississippi River. System customers include municipalities and consecutive systems, schools, and both residential and commercial customers.

System Information

System information was collected through a records review or statements made by System representatives during the inspection supplied. This information is organized into discussion topics and the topics are designated with a reference number. Each entry then indicates whether the discussion topic is an Area of Concern (AOC). AOCs are further discussed in Section V.

Reference #: IN-001	Topic: Background Information	AOC: No
<p>The System uses two surface water intakes to provide raw water to two treatment plants, located in East St. Louis and Granite City. Different processes are used at each treatment plant but generally include initial grit removal at the intakes, pre-chlorination and pre-ammonia disinfectant, aluminum sulfate coagulation, settling, filtration using granular activated carbon, fluoridation with hydrofluorosilicic acid, and post-chlorine and post-ammonia disinfection. System assets include multiple booster pump stations and above ground water storage tanks.</p> <p>In February 2021, IAW put a newly installed ultraviolet (UV) disinfection system into service at the East St. Louis Treatment Plant. This project was accompanied by a short-term switch to free chlorine and system-wide flushing. The UV system was installed with the goal of complying with the requirements of the Long Term 2 Enhanced Surface Water Treatment Rule.</p> <p>IAW's service area includes portions of the City of Cahokia Heights, where the System operates water mains, valves and hydrants, the Edgemont booster station, two above ground storage tanks, and system interconnections. IAW's service lines within the City of Cahokia Heights are constructed of asbestos cement, polyvinyl chloride, galvanized metal, and cast iron.</p>		

Reference #: IN-002	Topic: Customer Communication	AOC: No
<p>The System reported that, within the last year, they have taken steps to improve their community outreach and communication efforts for customers located within the City of Cahokia Heights. These efforts include posting a sandwich board during construction projects which contain staff contact information (see photo log for an example), delivering monthly newsletters to residents, and hosting open house events.</p>		

SECTION II – OBSERVATIONS

This section describes the various areas of the water system toured by EPA and the observations made by visual inspecting sites and assets.

Area(s)

EPA conducted a tour of the system and visually inspecting the following areas:

Area	Description
Ex 7f (Water Infra) Intake	A raw water intake owned and operated by IAW. The UAO identified several significant deficiencies here.
Warehouse	This location is used to store bottled water and equipment used for compliance with the UAO.
Distribution System	Various locations within Cahokia Heights that are part of IAW’s service area.
East St. Louis Treatment Plant	The treatment plant utilizing the recently installed UV system.

Observations(s)

The EPA inspection team made observations by visually the areas identified above. All observations grouped by the areas inspected and are designated with a reference number. Each entry then indicates whether the observation is an Area of Concern (AOC). AOCs are further discussed in Section IV. A photograph log can be found in Appendix A. Observations may not be in sequential order in which they were observed.

Area: Ex 7f (Water Infra) Intake	
Reference #: OB-001	AOC: No
During an April 2021 EPA inspection, it was observed that the interior of the Ex 7f (Water Infra) Intake building had areas of flaking paint that may have made system components more susceptible to corrosion. This observation was repeated in the UAO. In March 2022, this area was repainted. During this inspection, EPA inspectors confirmed that the painting project has been completed.	
Photo(s): Yes Appendix A Photos # 6-8	
Reference #: OB-002	AOC: No
During an April 2021 EPA inspection, monitoring equipment, which is used for non-regulatory water characterization, was inoperative. This observation was repeated in the UAO. In March 2022, the sample trough, conductivity probe, and pH probe was replaced. The equipment underwent a calibration on July 26,	

Inspection Date(s): October 18-19, 2022

2022, and is on a regular calibration schedule from a contractor. During this inspection, EPA inspectors confirmed that the equipment was functioning and was monitoring water temperature, conductivity, and pH.	
Photo(s): Yes Appendix A Photo # 1-5	

Area: Warehouse - Ex 7f (Water Infra) Belleville, IL	
Reference #: OB-003	AOC: No
This warehouse is used to store bottled water in accordance with IAW's Alternative Water Source Plan created in response to the UAO. In the event of pressure loss, a violation of the revised total coliform rule, or a water emergency, bottled water from this supply can be delivered to customers within the City of Cahokia Heights. During the inspection, there were approximately 4.5 pallets loaded with bottled water. IAW staff confirmed that additional bottled water can be ordered from a contract supplier, Absopure.	
Photo(s): Yes Appendix A Photo # 9-12	
Reference #: OB-004	AOC: No
The warehouse and nearby office building can be used to store spare parts, including, continuous pressure monitoring equipment for use on hydrants, and sandwich boards used to provide community members with contact information regarding construction in their neighborhood. During this inspection, EPA inspectors confirmed that IAW had pressure monitoring equipment and community information displays on hand.	
Photo(s): Yes Appendix A Photo # 13-17	

Area: Distribution System	
Reference #: OB-005	AOC: No
EPA inspectors observed some parts of IAW's service area within the City of Cahokia Heights, including areas that were located near historical occurrences of sanitary sewer overflows. The City of Cahokia Heights did not report any sanitary sewer overflows during the time EPA inspectors were onsite. EPA inspectors verified the physical location of several bacterial sampling stations and checked total chlorine levels. Sampling details are provided under Section IV: Sampling and Field Monitoring Activities.	
Photo(s): Yes Appendix A Photo # 18-24	

Area: East St. Louis Treatment Plant	
Reference #: OB-006	AOC: No
EPA inspectors observed the new UV system but did not inspect the entire treatment plant. There are four UV reactors, including three in service at all times and one used as a backup. Each reactor is capable of	

Inspection Date(s): October 18-19, 2022

treating 18.7MGD with a combined total of 74.8MGD. Lamp hours, water flow rates, and other operating parameters, are monitoring using a SCADA system.

Photo(s): No
Appendix A Photo N/A

SECTION III – RECORDS

The section identifies the records EPA reviewed before and during the inspection. All records are designated with a reference number. Each entry then indicates whether the record reviewed is an AOC. AOCs are further discussed in Section V. Records may not be in sequential order in which they were reviewed.

Record: IAW Email to EPA dated August 4, 2021	AOC: No
Reference #: RR-001	
On August 4, 2021, IAW’s Justin Ladner sent an email to EPA’s Jim Adamiec confirming that IAW intended to comply with the UAO.	

Record: Monthly Bacterial Sampling Results	AOC: No
Reference #: RR-002	
EPA reviewed records of bacterial sampling results from September 2021 - September 2022 and confirmed there were no violations of the Revised Total Coliform Rule. IAW also submitted bacterial samples for that same time period that were taken within 24 hours of sanitary sewer overflows or main break repairs. These sample results were submitted to EPA for compliance with the UAO.	

Record: Continuous Pressure Monitoring Data	AOC: No
Reference #: RR-003	
EPA reviewed continuous and transient pressure monitoring data taken throughout IAW’s system in the City of Cahokia Heights from September 2021 - September 2022. There were some instances of low pressure due to power outages or construction projects. During reported low pressure events, IAW issued boil orders to impacted customers and implemented their Alternative Water Source Plan. This data was submitted to EPA on a monthly basis for compliance with the UAO.	

Record: AWSP	AOC: No
Reference #: RR-004	
IAW developed an alternative water source plan, dated August 17, 2021, detailing how an emergency water supply would be provided to customers in the event of bacterial contamination or a loss of pressure within the distribution system. The plan also called for onsite storage, which EPA inspectors confirmed was present during the system walkthrough.	

Inspection Date(s): October 18-19, 2022

Record: RTCR Sample Site Plan	AOC: No
Reference #: RR-005	
Bacterial samples are collected from locations detailed in the current Sample Site Plan, dated June 8, 2022. This sample site plan was revised several times following the UAO to add locations in and around Cahokia Heights and in areas where sanitary sewer overflows were known to occur, including the “Ping Pong” neighborhood.	

Record: Miscellaneous System Data	AOC: No
Reference #: RR-006	
On August 31, 2021, IAW provided EPA with miscellaneous system data as required by the UAO. EPA reviewed these records when they were received and again prior to this inspection. These records included a distribution atlas with average pipe depths, plus records of line breaks, low-pressure events, fire flows, and flushing from 2018-present.	

Record: Construction Projects in Cahokia Heights	AOC: No
Reference #: RR-007	
During the inspection, IAW provided a list of construction projects taking place in the City of Cahokia Heights since late October 2019 (see attachment 1). During the site walkthrough, EPA inspectors were in the area of the project described as, “N. 82 nd & N. 80 th Water Main Replacement Project (Ping Pong Neighborhood).”	

SECTION IV – SAMPLING AND FIELD MONITORING ACTIVITIES

The section describes sampling and field monitoring activities. All samples are designated with a reference number.

EPA inspector, Jim Adamiec, used a Hach Pocket Colorimeter to monitor for total chlorine at several bacterial sampling locations designated in The System’s sample site plan. These locations were part of The System’s service area that is located within the boundaries of the City of Cahokia Heights. The System did not collect comparison samples. Sample results for total chlorine are given in real time.

<i>Sample Date/Time</i>	<i>Reference #</i>	<i>Samplers Initials</i>	<i>Sample Location</i>	<i>Parameter</i>	<i>Results (mg/L)</i>	<i>Regulatory Limit (mg/L)</i>
10/19/2022 At ~9:30 AM	SA-001	JA	 82 nd Street	Total Cl	1.61	1.0 - 4.0
10/19/2022 At ~ 10:15 AM	SA-002	JA	 Lake Drive	Total Cl	1.87	1.0 - 4.0
10/19/2022 At ~ 10:40 AM	SA-003	JA	 Mississippi	Total Cl	2.20*	1.0 - 4.0
10/19/2022 At ~ 10:40 AM	SA--004	JA	 Mississippi	Total Cl	3.00	1.0 - 4.0

Inspection Date(s): October 18-19, 2022

*Sample SA-003 was collected using the low range setting, which only detects chlorine to a maximum of 2.20 mg/L. Sample SA-004 was a retest at the same location using the correct high range setting.

SECTION V – AREAS OF CONCERN

This inspection did not identify any areas of concern.

SECTION VI – CLOSING CONFERENCE AND FOLLOW UP

This section describes the closing conference, records that were requested to be provided following the inspection, and provides a log of communication following the inspection.

Closing Conference

EPA inspectors held a closing conference with System personnel at 11:50 AM on October 19, 2022. During the closing conference, Jim Adamiec discussed the observations identified during the inspection. Observations have not yet been evaluated for a formal compliance determination.

Follow Up

At the time of the inspection, EPA inspectors did not request any follow up documentation.

Communication Log

EPA exchanged some emails with the system following the inspection to ask several follow up questions. In one email exchange, IAW staff indicated that company’s long term plans would include continued communication with the City of Cahokia Heights area. Additionally, IAW staff confirmed that as a matter of standard practice, a stockpile of bottled water would be stored for emergency distribution.

Date	Type	Point of Contact	Description (Including Documents Name, if applicable)	Contain PII	Contains CBI
11/2/22	Email	Sam Saucier	Clarification on UV treatment capacity	No	No
11/8/22	Email	Rachel Bretz	General information on community newsletters	No	No

LIST OF APPENDICES AND ATTACHMENTS

APPENDICES

- 1. Photo Log

ATTACHMENTS

- 1. List of IAW construction projects in Cahokia Heights

Illinois American - East St. Louis

Inspection Date(s): October 18-19, 2022

APPENDIX 1: PHOTOLOG

IL1635040

EPA Inspection 10-18/19-2022

All photos taken by Thomas Swenson, Inspector, U.S. EPA



1: RIMG1601

Description: Illinois American **Ex 7f (Water Infra)** Intake Monitoring Panel

Location: Illinois American **Ex 7f (Water Infra)** Intake

Date/Time: 10-18-2022

Illinois American - East St. Louis

Inspection Date(s): October 18-19, 2022



2: RIMG1602

Description: Illinois American **Ex 7f (Water Infra)** Intake Monitoring Panel

Location: Illinois American **Ex 7f (Water Infra)** Intake

Date/Time: 10-18-2022



3: RIMG1603

Description: Zoom in of Illinois American **Ex 7f (Water Infra)** Intake Monitoring Panel

Location: Illinois American **Ex 7f (Water Infra)** Intake

Date/Time: 10-18-2022

Illinois American - East St. Louis

Inspection Date(s): October 18-19, 2022



4: RIMG1604

Description: Zoom in of Illinois American **Ex 7f (Water Infra)** Intake Monitoring Panel

Location: Illinois American **Ex 7f (Water Infra)** Intake

Date/Time: 10-18-2022



5: RIMG1605

Description: Illinois American **Ex 7f (Water Infra)** Intake Monitoring Panel

Location: Illinois American **Ex 7f (Water Infra)** Intake

Date/Time: 10-18-2022

Illinois American - East St. Louis

Inspection Date(s): October 18-19, 2022



6: RIMG1606

Description: Painted Walls at Illinois American Ex 7f (Water Infra) Intake

Location: Illinois American Ex 7f (Water Infra) Intake

Date/Time: 10-18-2022



7: RIMG1607

Description: Painted Walls at Illinois American Ex 7f (Water Infra) Intake

Location: Illinois American Ex 7f (Water Infra) Intake

Date/Time: 10-18-2022



8: RIMG1608

Description: Painted Pipe at Illinois American **Ex 7f (Water Infra)** Intake

Location: Illinois American **Ex 7f (Water Infra)** Intake

Date/Time: 10-18-2022



9: RIMG1609

Description: Emergency Water Supply

Illinois American - East St. Louis

Inspection Date(s): October 18-19, 2022

Location: Illinois American Warehouse

Date/Time: 10-19-2022



10: RIMG1610

Description: Emergency Water Supply

Location: Illinois American Warehouse

Date/Time: 10-19-2022



11: RIMG1611

Description: Emergency Water Supply

Location: Illinois American Warehouse

Date/Time: 10-19-2022

Illinois American - East St. Louis
Inspection Date(s): October 18-19, 2022



12: RIMG1612
Description: Emergency Water Supply
Location: Illinois American Warehouse
Date/Time: 10-19-2022



13: RIMG1613
Description: Hydrant Flushing Sign
Location: Illinois American Warehouse
Date/Time: 10-19-2022

Illinois American - East St. Louis
Inspection Date(s): October 18-19, 2022

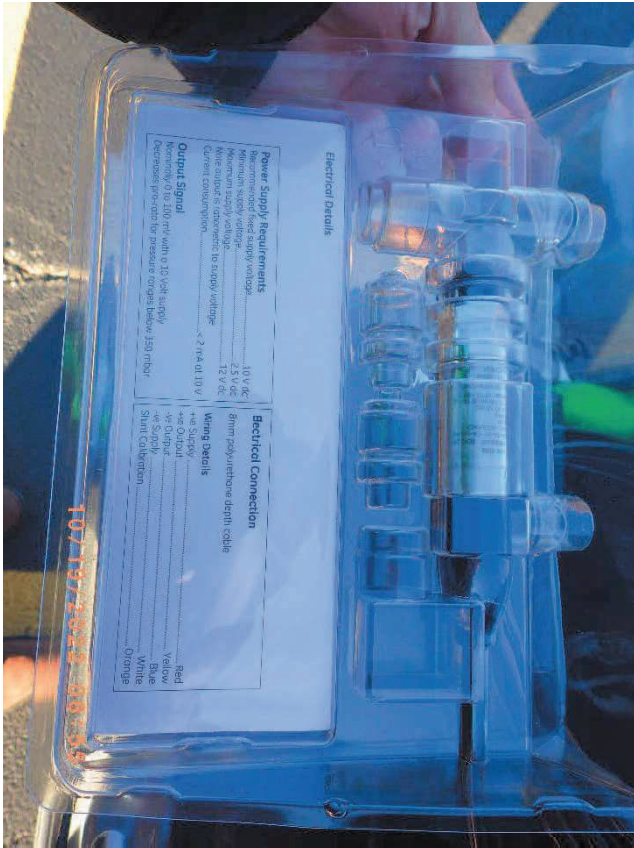


14: RIMG1614
Description: Pressure Monitoring Equipment
Location: Illinois American Warehouse
Date/Time: 10-19-2022



15: RIMG1615
Description: Pressure Monitoring Equipment
Location: Illinois American Warehouse
Date/Time: 10-19-2022

Illinois American - East St. Louis
Inspection Date(s): October 18-19, 2022



16: RIMG1616
Description: Pressure Monitoring Equipment
Location: Illinois American Warehouse
Date/Time: 10-19-2022



17: RIMG1617
Description: Pressure Monitoring Equipment

Illinois American - East St. Louis

Inspection Date(s): October 18-19, 2022

Location: Illinois American Warehouse

Date/Time: 10-19-2022



18: RIMG1618

Description: Water Main Replacement Project

Location: N 82nd & N 80th

Camera Direction:

Date/Time: 10-19-2022



19: RIMG1619

Description: Water Main Replacement Project

Illinois American - East St. Louis

Inspection Date(s): October 18-19, 2022

Location: N 82nd & N 80th

Date/Time: 10-19-2022



20: RIMG1620

Description: Water Main Replacement Project

Location: N 82nd & N 80th

Date/Time: 10-19-2022



21: RIMG1621

Description: Bacterial Sampling Station 1

Location: [REDACTED] N. 82nd

Date/Time: 10-19-2022



22: RIMG1622

Description: Bacterial Sampling Station 1

Location: [REDACTED] N. 82nd

Date/Time: 10-19-2022

Photos of sample station 2 have been omitted from this report because they contain images of staff members



23: RIMG1626

Description: Bacterial Sampling Station 2

Location: [REDACTED] Lake Drive

Date/Time: 10-19-2022

Illinois American - East St. Louis

Inspection Date(s): October 18-19, 2022



24: RIMG1627

Description: Bacterial Sampling Station 2

Location: [REDACTED] Lake Drive

Date/Time: 10-19-2022

**Illinois American Water Company
Cahokia Heights Service Area
Engineering Projects**

(Language copied from monthly newsletters sent to customers in Cahokia Heights)

East St. Louis Water Treatment Plant Projects

Presently, these are major construction projects at the water treatment plant:

- Ultraviolet (UV) disinfection installation, a new treatment technology that will support continued delivery of safe drinking water to customers. As part of the project, four new Calgon UV reactors (three in service and one backup) will be installed. They will be capable of treating up to 75 million gallons of water a day. UV technology is effective in inhibiting infection-causing microorganisms and adds another layer of protection for customers. The project will also help meet more stringent water quality regulations.
- New high-service pump station to replace the aging equipment onsite currently.
- Two, new five-million-gallon clearwell tanks for a total of 10 million gallons of storage.
- New chemical feed building and other improvements to the chemical feed systems.
- New residual pump station to remove solids more efficiently from the raw water supply.

The company's goal is to have the projects completed by end of 2022, weather permitting and if all products are available timely. The estimated investment for all projects is \$115 million.

Water Main Replacement Projects

Completed Projects

Oakland and State Street Looping | Completed: Oct 2020

This project allowed for more interconnections of the water system and supports water pressure and fire flows. This project was located at two sites. The first site is along North 68th Street. Here, the project connects the existing water line on Elm Street, continues along North 68th Street, crosses State Street and connects to the existing 16-inch ductile iron pipe parallel to and north of State Street. The other site is located on Oakland Street where it connects existing water line on North 73rd Street and Glenwood Avenue.

47th Street and State Street Water Main Replacement Project | Completed: Nov 2020

This project replaced approximately 543 feet of water main with 6-inch ductile iron water main.

Small Main Replacement (N. 74th, Pershing, N. 72nd and Park) | Completed: Spring 2021

This water main replacement project was at Pershing Blvd, North 74th Street, North 72nd Street, Park Place, North 69th Street, and North 68th Street. This project supports the overall water system serving Centreville - Cahokia Heights.

N. 38th and State St. Water Main Replacement Project | Completed: Oct 2019

This project, located along north 38th Street, consists of the installation of 210 feet of 6-inch ductile iron water main.

52nd, 53rd, 54th, 55th and Belmont Water Main Replacement Project | Completed: Oct 2019

This water main replacement project is located north of State Street and south of Summit Avenue and between North 51st Street and east to North 59th Street. This project replaced galvanized pipe of various sizes on North 52nd, North 53rd, North 54th, North 55th, Ohio Avenue and Summit Avenue.

Lake Drive (N. 47th to N. 56th) Water Main Replacement Project

This project, located on Lake Drive, is intended to replace approximately 1,000 feet of 2-inch galvanized pipe with 6-inch water main and continue approximately 1,890 feet to connect to 8-inch water main at N. 47th Street.

Laura Avenue Water Main Replacement Project (Piat Place Neighborhood)

This project is located on Laura Avenue between N. 59th Street and N. 63rd Street, then turning north along N. 63rd Street stopping at State Street. This project replaced approximately 1,400 feet of parallel 2-inch cast iron water mains on N. 63rd Street with larger 6-inch water main and approximately 1,375 feet of 2-inch galvanized pipe on Laura Avenue with 4-inch water main. This area has experienced past water main breaks.

State Street (N. 32nd to N. 38th) Water Main Replacement Project

This project retired a 10-inch water main located on State Street between N. 32nd and N. 38th streets. There is a parallel 12-inch water main located on State Street that provides water service to the area, allowing the 10-inch water line that was installed in 1908 to be retired.

Lake Drive

This water main replacement project, which started in January 2022, is replacing approximately 5,060 feet of aging water main with new 6-inch ductile iron pipe. The area has experienced several water main breaks in recent years. The project scope is within the following areas:

North 58th Street: from Lake Drive to Belmont Avenue

North 57th Street: from Lake Drive to State Street

Beachland Place: from Lake Drive to North 57th Street

Short Street: from Beachland Place to North 57th Street

This project is being performed by Kassen Excavating, Inc. Crews will work efficiently and safely to minimize the length of the project.

South 50th Street Water Main Improvements

The project scope of work includes improvements to the existing water mains along South 50th Street between Bond Avenue and Converse Avenue. Improvements include the addition of approximately 700 feet of 8-inch ductile iron pipe to create water main loops to eliminate dead end mains within the subject project area in Cahokia Heights. This project was completed in June 2022.

Under Construction Projects

Lake Drive (N. 57th to N. 63rd) Water Main Looping Project (Piat Place Neighborhood)

This project, located along Lake Drive between N. 57th Street and N. 63rd Street, will connect adjoining water mains with 1,850 feet of 4-inch water main.

N. 82nd & N. 80th Water Main Replacement Project (Ping Pong Neighborhood)

This replacement project is located along N. 80th and N. 82nd streets bordered by Bluff Drive to the northeast and N. 80th Street to the south. This project will replace approximately 3,000 feet of 2-inch galvanized pipe with 4-inch water main and loop the two water mains to improve redundancy in the area.

Lake Drive (N. 35th to N. 43rd) Water Main Looping Project

This looping project is intended to complete the loop along Lake Drive to allow for more interconnection of the system and support fire flows in the area. This project is located along Lake Drive between 8-inch water main located at N. 35th Street and continues along Lake Drive where it will connect to the 6-inch water main located at N. 43rd Street. Connections to side streets from N. 35th to N. 41st will be included to improve redundancy in the area.