



Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

CATEGORICAL EXCLUSION FROM ENVIRONMENTAL REVIEW

Birmingham Water Works Board
Jefferson County

SRF Project No. FS010122-17

March 26, 2025

The Alabama Department of Environmental Management has made up to **\$292,607,500** in financial assistance available to the Birmingham Water Works Board (BWVB) using funds from the FY 2022-FY2026 Drinking Water State Revolving Fund Bipartisan Infrastructure Legislation (DWSRF-BIL) Lead Service loan program. In accordance with State and Federal regulations that govern the program, the Alabama Department of Environmental Management has conducted a review to assess the potential impacts upon the environment that may result from implementation of this project.

The Birmingham Water Works Board (BWVB) proposes to replace lead service lines throughout the drinking water distribution system. The proposed project will consist of replacing all known lead service lines in the distribution system. Completion of this proposed project will improve drinking water quality and help maintain compliance with EPA and ADEM regulations.

The Alabama Department of Environmental Management has determined that the project qualifies for a Categorical Exclusion (CE) from further environmental study under the guidelines specified by the State Environmental Review Process (SERP) which specifically include actions which are solely directed toward minor rehabilitation of existing facilities, functional replacement of equipment, or towards the construction of new ancillary facilities adjacent or appurtenant to existing facilities. However, this decision may be reconsidered if significant adverse information concerning the potential environmental impacts of the project is discovered.

Comments relative to this project should be submitted in writing to Mrs. Chavon R. Jones, SRF Section, Permits and Services Division, Alabama Department of Environmental Management, Post Office Box 301463, Montgomery, Alabama 36130-1463, no later than 30 days after the date of this public notice. The Alabama Department of Environmental Management will not take formal action to proceed with the project without carefully evaluating any public comments opposing the project.

Sincerely,

Lance R. LeFleur,
Director

LRL/EJR/CRJ/kbh

Attachment



Birmingham Office
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Office
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)

Coastal Office
1615 South Broad Street
Mobile, AL 36605
(251) 450-3400
(251) 479-2593 (FAX)

Birmingham Water Works Board

SRF# FS010122-17

The Categorical Exclusion is promulgated in the State Environmental Review Process (SERP) in Part IV, Section C: Categorical Exclusions for Drinking Water State Revolving Fund Projects: (Italicized sections apply.)

1. The following drinking water projects are eligible for categorical exclusions:
 - a. *Actions intended solely for minor rehabilitation, functional replacement, or ancillary facilities adjacent or appurtenant to existing facilities.*
 - b. Minor construction, including:
 - (1) New wells or replacement wells for water supply purposes if ancillary to the existing system;
 - (2) Improvements not intended to increase capacity of the system;
 - (3) Facilities for the disinfection of public water supplies;
 - (4) Facilities such as looping that will result solely in the provision of adequate public water system pressure;
 - (5) *Construction of water tanks;*
 - (6) Construction of new water lines in previously disturbed areas within one mile of the existing distribution system.
 - c. Projects where funding is being provided for planning and/or engineering costs only (in which case the requirements of IV.C.1.a-d do not apply).
2. In order to determine if a drinking water project is eligible for a CE, all of the following must not apply:
 - a. The action is known or expected to directly or indirectly adversely impact any of the following:
 - (1) Cultural or historical resources;
 - (2) Endangered or Threatened Species and/or their critical habitats;
 - (3) Environmentally important natural resource areas such as floodplains, wetlands, prime agricultural land, or aquifer recharge zones.
 - b. The action is not cost effective.
 - c. The action will cause significant public controversy.
 - d. The action will create a new or expanded surface drinking water source.

This project complies with the above requirements and has been determined to be eligible for a Categorical Exclusion.



ALABAMA HISTORICAL COMMISSION

468 South Perry Street
Montgomery, Alabama 36130-0900

Lisa D. Jones
Executive Director
State Historic Preservation Officer

Tel: 334-242-3184
Fax: 334-242-1083

March 7, 2024

Doug Stockham
3600 1st Avenue North
Birmingham, AL 35222

Re: AHC 24-0588
Birmingham Water System Improvements - System-wide
Jefferson County

Dear Mr. Stockham:

We concur with the above referenced project provided all construction activities will occur within **existing and previously disturbed** highway right-of-way and/or other previously disturbed areas. For the purposes of this letter, previous disturbance is defined as mechanical disturbance to either culturally sterile subsoil, or the maximum depth of the proposed undertaking. It should be noted that agricultural plowing does not typically meet this threshold of disturbance, nor do previously undisturbed portions of the ROW that require clearing of additional vegetation. Any area that is to be involved and does not fall into one of the above categories will require a cultural resource assessment by a professional archaeologist. Submit the resulting report to our office for review and determination prior to project initiation.

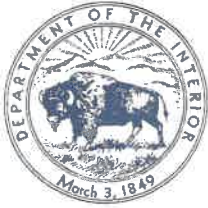
Consultation with the State Historic Preservation Office does not constitute consultation with Tribal Historic Preservation Offices, other Native American tribes, local governments, or the public. If archaeological materials are encountered during construction, the procedures codified at 36 CFR 800.13(b) will apply. Archaeological materials consist of any items, fifty years old or older, which were made or used by man. These items include but are not limited to, stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal, and glass objects. The federal agency or the applicant receiving federal assistance should contact our office immediately. If human remains are encountered, the provisions of the Alabama Burial Act (*Code of Alabama* 1975, §13A-7-23.1, as amended; Alabama Historical Commission Administrative Code Chapter 460-X-10 Burials) should be followed. This stipulation shall be placed on the construction plans to ensure contractors are aware of it.

We appreciate your commitment to helping us preserve Alabama's historic archaeological and architectural resources. Should you have any questions, please contact Amanda McBride at 334.230.2692 or Amanda.McBride@ahc.alabama.gov. Have the AHC tracking number referenced above available and include it with any future correspondence.

Sincerely,

Lee Anne Hewett
Deputy State Historic Preservation Officer

LAH/AMH/nj



United States Department of the Interior

FISH AND WILDLIFE SERVICE

1208-B Main Street
Daphne, Alabama 36526

APR 12 2024

IN REPLY REFER TO:

2024-0059734

Mr. Douglass W. Stockham IV, P.E.
System Development, Manager
3600 1st Avenue North
Birmingham, AL 35222

Dear Mr. Stockham IV:

Thank you for your letter dated March 4, 2024, requesting review on the Birmingham Water Works Board's (BWVB) proposed water system improvements, system-wide, across ten districts and municipalities in Jefferson County, Alabama. We understand this project includes approximately 37,315 feet of water mains and 4,147 water services. Water main pipe replacements will typically include the replacement of an existing pipe that ranges in diameter from 2-inch to 8-inch (cast iron unlined & galvanized steel) with larger 4-inch to 8-inch diameter pipe. The water mains are located entirely within the roadway rights-of-way, within previously developed areas. Replacement of each water main requires approximately 3-ft wide, 4-ft deep trench and disturbance will be located within the existing roadway right-of-way.

We have reviewed your information and are providing the following comments in accordance with the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

Endangered, Threatened, Proposed and Candidate Species

The proposed project is within the range of the Flattened Musk Turtle (*Sternotherus depressus*), Black Warrior Waterdog (*Necturus alabamensis*), Rush Darter (*Etheostoma phytophilum*), and Watercress Darter (*E. nuchale*).

Watercress and Rush Darters

The following general locations of the proposed water main replacement project are near listed fish species locations. You have stated that the work will be on the roadways along the concrete curb and the sidewalk, if there is one, and adjacent landscaped areas.

Project	SRF
5625 Avenue Q	SLO-7
921 19 th PL SW	SLO-8
1446 17 th ST SW	SLO-16
1359 15 th PL SW	SLO-16
8533 2 nd AVE S	SLO-32

300 80 th ST N	ALO-28
327 78 th ST N	SLO-28
316 75 th ST N A	SLO-30

Due to the sensitive species, including watercress and rush darter, Black Warrior waterdog, and flattened musk turtle, in the areas of these specific projects, it is very important to protect water quality by maintaining best management practices and erosion controls. If any work for this portion of the Waterline Improvement Project will occur in waterways or impact waterways, please contact our office for further consultation.

We recommend incorporating the following measures into the development design to protect the species and water quality:

- Implement best management practices to minimize erosion and prevent sedimentation into waterways, both during and after construction.
- Develop an erosion control plan tailored to the site. All erosion controls should be inspected routinely, especially during and immediately following significant rain events, to ensure no impacts to nearby surface waters and aquatic habitat. Immediate corrective action should be taken if erosion or sedimentation is observed.
- Retain as much natural vegetation as possible by clearing and grubbing only necessary areas.
- Immediately revegetate any disturbed areas with a native species or an annual grass.
- To the extent feasible, complete any work that results in exposed earth during periods when significant rainfall is not predicted.

For information regarding best management practices, consult the Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas (2018), available on-line at:
<https://alconservationdistricts.gov/resources/erosion-and-sediment-control/>.

If you have any questions or need additional information, please contact Ms. Jennifer Grunewald of my staff at jennifer_grunewald@fws.gov. Please refer to the reference number located at the top of this letter in future phone calls or written correspondence.

Sincerely,



William J. Pearson
Field Supervisor
Alabama Ecological Services Field Office



April 17, 2024

Douglass W. Stockham IV, P.E.
Birmingham Water Works
3600 1st Avenue North
Birmingham, AL 35222

Dear Mr. Stockham:

Re: Birmingham Water Works - Water System Improvements – System-wide Project

This letter is in response to your letter requesting our review on the subject project. The Regional Planning Commission of Greater Birmingham (RPCGB) does not know of any reason to oppose, and therefore concurs with the project. Thank you for giving us the opportunity to comment.

Sincerely,

Charles E. Ball, AICP
Executive Director



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, MOBILE DISTRICT
600 VESTAVIA PARKWAY, SUITE 203
VESTAVIA HILLS, AL 35216

June 3, 2024

North Branch
Regulatory Division

SUBJECT: Department of the Army Pre-Application Consultation, File Number SAM-2024-00254-LET, Birmingham Water Works – water system improvements, Jefferson County, Alabama

Birmingham Water Works
Attention: Mr. Douglass Stockham
3600 1st Avenue North
Birmingham, Alabama 35222

Transmitted electronically doug.stockham@bwwb.org

Dear Mr. Stockham:

This is in response to your letter dated March 4, 2024, requesting Department of Army (DA), U.S. Army Corps of Engineers (USACE) review of the proposed replacement of approximately 37,315 linear feet of water mains and the piping associated with 4,147 customer service line replacements. The work would occur at multiple locations within the existing Birmingham Water Works water distribution system service area in Jefferson County, Alabama. This project has been assigned file number **SAM-2024-00254-LET**, which should be referenced in all future correspondence regarding this project.

Section 404 of the Clean Water Act requires that a Department of the Army (DA) permit be obtained prior to the placement or discharge of dredged and/or fill material into waters of the United States (U.S.), including wetlands (33 U.S.C. 1344). Based on our review of the project information submitted it is unclear if the project would require any discharges into jurisdictional waters of the U.S. due to the small scale of the work area maps provided. If no discharges of dredged and/or fill material would be necessary, then a DA permit would not be required.

If any discharges of fill material into waters of the U.S. or wetlands would be necessary to conduct the proposed work, it appears that Nationwide Permit 3 (NWP 3) for Maintenance may be applicable to the proposed water line replacements and no further coordination with the USACE would be required provided the work would be conducted in compliance with all terms and conditions of Nationwide Permit 3. A copy of NWP 3 is enclosed for reference as further planning, design, and implementation of the proposed work is undertaken.

The statements contained herein do not convey any property rights or any exclusive privileges, and do not authorize any injury to property or obviate the requirements to obtain other local, State, or Federal approvals required by law for the activities discussed above.

We appreciate your cooperation with the USACE Regulatory Program. Please contact me at (205) 213-9623 (cell) or at leslie.e.turney@usace.army.mil if you have any questions concerning this matter. For additional information about our Regulatory Program, you may visit our web site at <http://www.sam.usace.army.mil/Missions/Regulatory.aspx>. Also, please take a moment to complete our customer satisfaction survey located under the Menu header on the right side of our webpage. Your responses are appreciated and will allow us to improve our services.

Sincerely,

Leslie E. Turney
Chief, North Branch

Enclosures



March 4, 2024

U.S. Army Corps of Engineers, Regulatory
Mobile District – North Branch
600 Vestavia Parkway, Suite 203
Vestavia Hills, AL 35216
Email: CESAM-RD@sam.usace.army.mil

Subject: **Water System Improvements – System-wide
Birmingham, Alabama
Request for Concurrence Letter**

Dear Sir/Madam:

The Birmingham Water Works (BWW) is in the process of applying for a State Revolving Loan from the Alabama Department of Environmental Management (ADEM) to help finance water system improvements throughout Birmingham, across ten (10) districts and municipalities. The work includes replacing approximately 37,315 feet of water mains and 4,147 water services. This project is necessary due to aging water system infrastructure in the BWW's distribution system.

Water main pipe replacements will typically include the replacement of an existing pipe that ranges in diameter from 2-inch to 8-inch (cast iron unlined & galvanized steel) with larger 4-inch to 8-inch diameter pipe. The water mains are located entirely within the roadway rights-of-way, within previously developed areas. Replacement of each water main requires approximately 3-ft wide, 4-ft deep trench and disturbance will be located within the existing roadway right-of-way.

Replacement of water services (typically 1-inch diameter Type "K" Copper Pipe or 1-inch Municipex (PEXa) pipe) requires approximately 12-inch wide, 36-inch deep trench at each water service location and will extend from water main to meter box and extend approximately 6 feet from the meter box to the customer's existing plumbing system. The water service pipes will generally be in proximity of the main water line.

A list of specific projects and locations is provided in Attachment 1 and maps showing project locations are provided in Attachment 2. Representative photographs of the project areas are provided in Attachment 3. Based on preliminary review of the project areas, no jurisdictional waterways occur within the project areas.

The loan application questions the effect of the work on any floodplain, floodway, and wetlands that may be impacted during the work. Based on the facility locations indicated on the enclosed maps and work being performed in existing road rights-of-way and previously disturbed areas, please review the attached information, and provide any necessary comments. U.S. Army Corps of Engineers (USACE) concurrence is required to complete the environmental review of the loan application.

Thank you for your attention to this matter. Your prompt response would be greatly appreciated. If you have any further questions or need additional information, please call me at (205) 244-4186 or email me at doug.stockham@bwwb.org.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Douglass W. Stockham IV', is positioned above the printed name.

Douglass W. Stockham IV, P.E.
System Development, Manager

Enclosures: Attachment 1 – Tables
 Attachment 2 – Figures
 Attachment 3 – Representative Photographs

Table 1. Service Line Replacements

District/ City	Project Designation	Project Name	Project Location	Zip Code	Adjacent Roadways	Services/Houses
District 2/ Birmingham	SLO-31	Lakewood	South East Lake: City of Birmingham	35206	5th Ave S / 6 th Ave S / 9 th Ave S / 10 th Ave S / 80th St S / 81st St S / Rugby Ave / 78th St S	198
	SLO-32	South Highlands	South East Lake: City of Birmingham	35206	2nd Ave S / 4th Ave S / 5th Ave S / 6th Ave S / 7 th Ave S / 8th Ave S / 83rd Pl S / 85th St S / 82 nd St S / 84 th St S	152
District 4/ Birmingham	SLO-18	Norwood 1	Norwood: City of Birmingham	35234	15th Ave N / 17th Ave N / Norwood Blvd / 26 th St N / 27 th St N / 28th St N / 29th St N / Carraway Blvd	108
	SLO-19	Norwood 2	Norwood: City of Birmingham	35234	Norwood Blvd / 35th St N / 36th St N / Norwood Cir / 15 th Ave N	77
	SLO-20	East Avondale / Woodlawn	East Avondale / Woodlawn / Kingston: City of Birmingham	35212 35222	2nd Ave S / 47th St N / 48 th St N / 47th Pl N / 48th St N / Messer Airport Hwy	117
	SLO-21	Avon Park	East Birmingham / Kingston / Woodlawn: City of Birmingham	35222 35212 35234	Coosa St / 39th St N / 42nd Pl N / 8 th Ave N / 11th Ave N / 12 th Ave N / 13th Ave N / 48 th St N	106

Table 1. Service Line Replacements

District/ City	Project Designation	Project Name	Project Location	Zip Code	Adjacent Roadways	Services/Houses
	SLO-22	Collegeville / Inglenook	Collegeville / Inglenook: City of Birmingham	35217 35207	31st Way N / 35th Ave N / 36 th Ave N / 39th Pl N / 40th Ter N / 41st Ave N / 33 rd Ter N / Vanderbilt Rd / Inglenook St / 40 th Pl N	106
	SLO-23	Mountain Park	Inglenook: City of Birmingham	35217	41st Ave N / 42nd Ave N / 43rd Ave N / 44th Ave N / 43rd St N / 43rd Pl N / 44 th St N / 42 nd St N / 45 th Ave N / 40 th Ct N	143
	SLO-24	Ingle Terrace	Inglenook: City of Birmingham	35217	40th Pl N / 41st Pl N / 41st Way N / 42nd St N / 43rd Ave N / 46 th Ave N / 44 th Ave N / 47 th Ave N	82
	SLO-25	East Boyles	Inglenook: City of Birmingham	35217	Inglenook St / 42nd Ave N / 43rd Ave N / Main St (Vanderbilt Pl) / Harmon St / 49th Ct N / 49th Ter N / 50th Ave N / 42nd Pl N / Hale Ave / Vanderbilt Rd	125
	SLO-28	Lake Highlands	North East Lake: City of Birmingham	35206	3 rd Ave N / 4th Ave N / 5th Ave N / 80 th St N / 78 th St N / 81 st St N / 82 nd St N / 86 th St N	169
District 5/ Birmingham	SLO-13	College Hills 1	College Hills: City of Birmingham	35204	6 th St W / 9th Ct W / 7th St W / 8th Ter W / 10 th Ave W	94

Table 1. Service Line Replacements

District/ City	Project Designation	Project Name	Project Location	Zip Code	Adjacent Roadways	Services/Houses
	SLO-14	College Hills 2	College Hills: City of Birmingham	35204	10th Ct W / 10th Ave W / 9th Ct W / 3rd St W / 8th Ave W / 5th Pl W / 10th Ct W / 6th St W	110
	SLO-17	Fountain Heights	East Thomas / Enon Ridge / Fountain Heights / Evergreen / Druid Hills: City of Birmingham	35204 35234	1st St N / 2nd St N / 11th Ave N / 11th Ct N / 14th Ct N / 3rd Pl N / 15th Ave N / 15th Ct N / 15th Ct N / 17th St N / 19th St N / Portage Ave / 22nd St N / 3rd St N / 5th St N / 19th St N / 17th Ct N	164
	SLO-29	2nd Ave S East Lake	East Lake: City of Birmingham	35206 35212	2nd Ave S / 68th St S / 72nd St S / 74th St S / 76th St S	158
	SLO-30	Wahouma / East Lake	Wahouma / East Lake: City of Birmingham	35206	72nd St S / 75th St N / 76th St N / 3rd Ave N / Kimberly Ave	70
District 6/ Birmingham	SLO-15	Arlington - West End	Arlington - West End: City of Birmingham	35211	Woodland Ave SW / 12th St SW / 14th SW	65
	SLO-16	West End / Titusville	West End Manor / Arlington - West End / North and South Titusville: City of Birmingham	35205 35211	Omega St S / 15th Pl SW / 17th St SW / Delta St S / 16th Way SW / 1st St S / 6th Ave S / Center St S / 8th Ave S / 4th Ave S	270

Table 1. Service Line Replacements

District/ City	Project Designation	Project Name	Project Location	Zip Code	Adjacent Roadways	Services/Houses
District 7/ Birmingham	SLO-8	West End	Central Park / Oakwood Place: City of Birmingham: City of Birmingham	35211 35208	Court S / Alabama Ave SW / 49th St SW / 19th Pl SW / 19 th St SW	131
District 8/ Birmingham	SLO-4	Oak Hills	Belview Heights: City of Birmingham	35208 35064	Valley Rd Pl / Valley Rd / 41 st St Ensley / 43rd St Ensley / 44th St Ensley / Court K / Ave I / Court I / Ave H / Ave K / Franklin Ave / Court J / 41 st St	124
	SLO-5	Belview Heights	Belview Heights: City of Birmingham / City of Fairfield	35208 35064	44 th St Ensley / 46th St Ensley / 46 th St / Maple St / Oakland Ave / Lloyd Noland Pkwy / Farrell Ave	164
	SLO-7	Central Park	Belview Heights / Central Park: City of Birmingham	35208 35228	Ave Q / 47 th St Ensley / 50th St Ensley / Ave O / Ave M / Ave K (Monte Sano Dr.) / Vinesville Rd / Bessemer Rd / Martin Ave / Court O	152
	SLO-9	Ensley Highlands	Ensley Highlands: City of Birmingham	35208 35218	28th St Ensley / 29th St Ensley / 30th St Ensley / Ave S / Ave R	92
	SLO-10	Ensley Highlands / Fairview / Rising	Ensley Highlands / Fairview / Rising - West Princeton: City of Birmingham	35208 35218	23rd St Ensley / 24th St Ensley / 26th St Ensley / 28 th St Ensley / Ave T / Ave W / Ave Y / Ave Z / Fayette Ave	162

Table 1. Service Line Replacements

District/ City	Project Designation	Project Name	Project Location	Zip Code	Adjacent Roadways	Services/Houses
	SLO-11	Bush Hills / Fairview	Bush Hills / Fairview: City of Birmingham	35208 35204	4th Ter W / 12th St W / 5th Ave W / 6th Ave W / 7 th Ave W / 15 th St W / 11 th St W / 12 th Ave W / Graymont Ave W	132
	SLO-12	Bush Hills	Bush Hills: City of Birmingham	35208	Bush Blvd / Bush Blvd W / Bush Cir / Eufala Ave / Border St / 17 th St W	107
District 9/ Birmingham	SLO-1	Pratt City	Pratt City: City of Birmingham	35214	Pratt Hwy / 5th Way / Ave G / Elba Ave	91
	SLO-2	Wylam Park	Wylam / Ensley: City of Birmingham	35218 35224	Jersey St / Buffalo St / Ave C / Ave D / 25 th St Ensley / 30 th St Ensley/ 9 th Ave Wylam	142
Fairfield	SLO-3	Fairfield City Park	Belview Heights: City of Birmingham / City of Fairfield	35064 35218	40th Pl / 41st St / 44 th St / Lloyd Noland Pkwy / Court G / Pike Rd / Valley Rd	89
	SLO-6	Miles College	City of Fairfield	35064 35208	Pine Pl / Holly Ct / 55th St / 58th St / 61st St / Court G / Farrell Ave / Ave D / Myron Massey Blvd / Court F	154
Tarrant	SLO-26	Bartonville	City of Tarrant	35217	Bell Ave / Fulton Ave / Jackson Blvd / Overton Ave / Mississippi St / Hall St / Spring St / Pinson Valley Pkwy	114

Table 1. Service Line Replacements

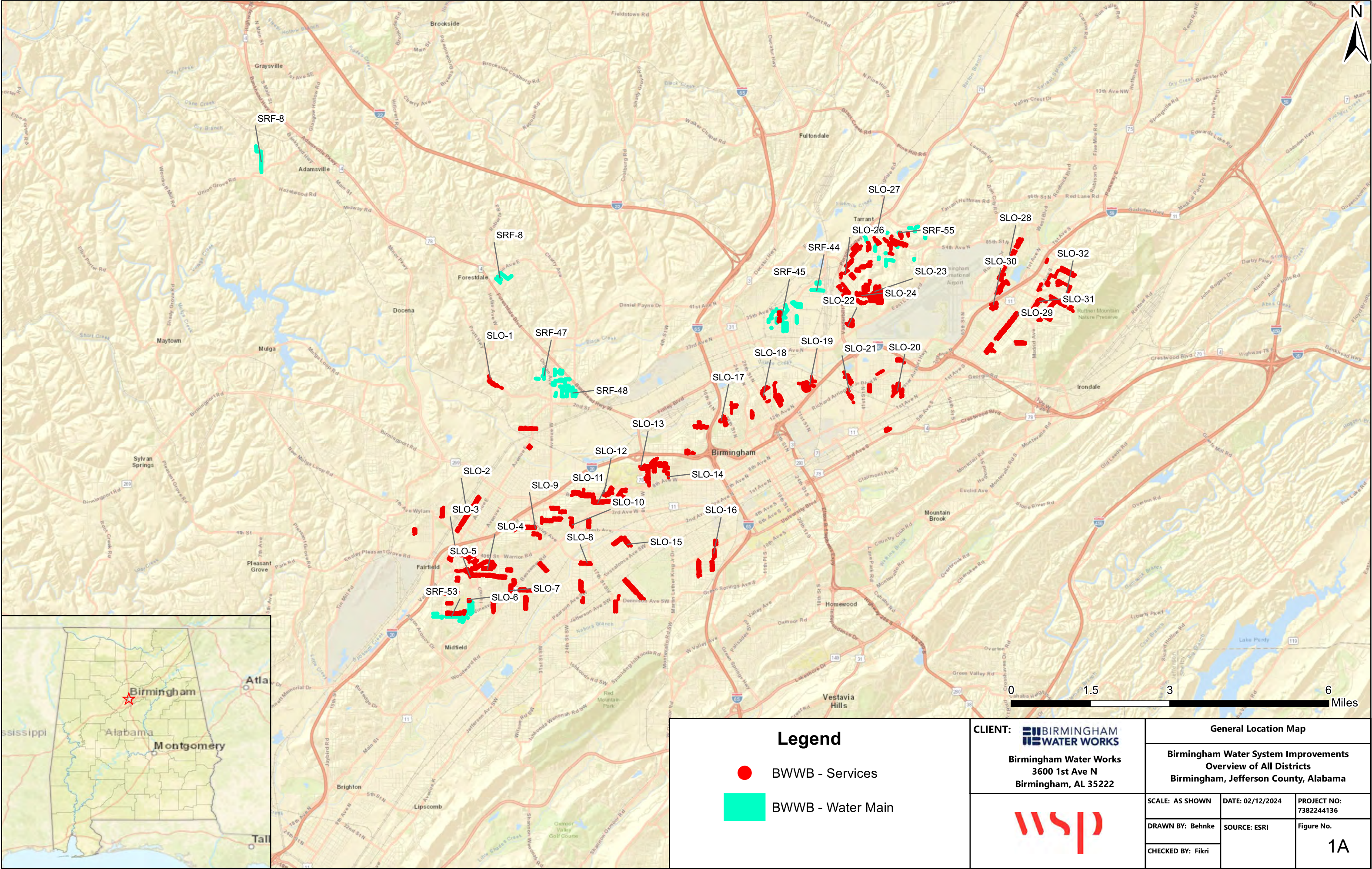
District/ City	Project Designation	Project Name	Project Location	Zip Code	Adjacent Roadways	Services/Houses
	SLO-27	Oak Park	City of Tarrant	35217	Elm Ave / Thomason Ave / Wharton Ave / Auburn Ave / Etowah St / East Lake Blvd / Damon St / McCaskill St / Forest St / Jackson Blvd / Jefferson Blvd / Linthicum St / Portland St / Virginia St / Pinson St	177

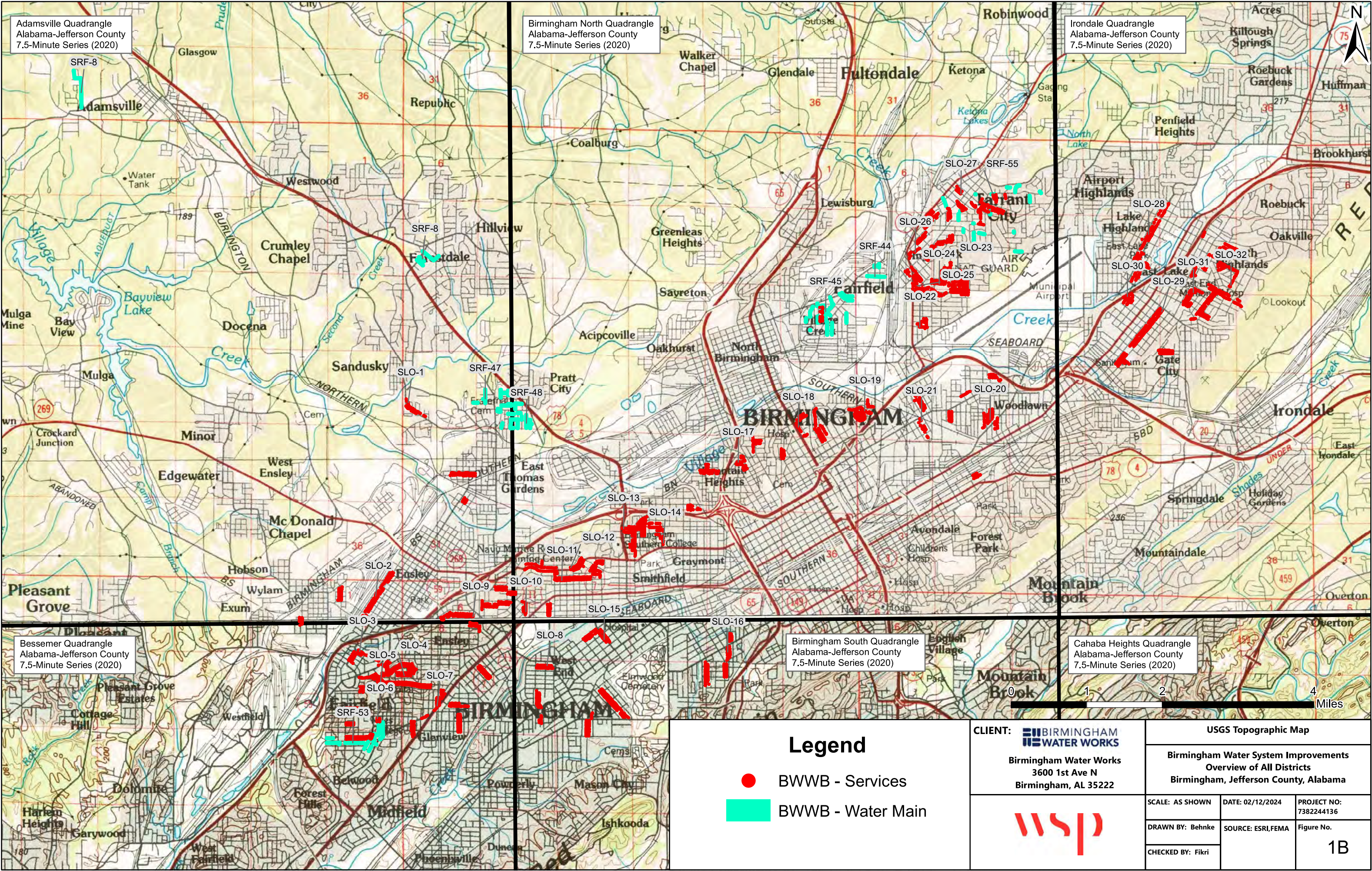
Table 2. Main Water Line Replacement Projects

District/ City	Project Designation	Project Name	Project Location	Zip Code	Project Roadways	Length of Water Main Replacement (ft)
District 4/ Birmingham	SRF-44	Collegeville Phase 1	Harriman Park, Collegeville: City of Birmingham	35207	45th Ave N / 43rd Ave N / 35th Ave N / 34th St N / 33rd Pl N / 36th Pl N / 37th St N / 34th Pl N / 34th Ter N	4,401
	SRF-45	Collegeville Phase 2 – Area 1 Collegeville Phase 2 – Area 2	Collegeville: City of Birmingham	35207	30th Pl N / 30th Way N / 31st Pl N / 32nd St N / 32nd Pl N / Pearl Ave / 34th Ter N / 34 Ct N / 33rd Ave N	5,146
District 9/ Birmingham	SFR-47	North Pratt Phase 1	North Pratt: City of Birmingham	35214	Hamilton Ave / Mildread Ave / Hattie St / Nelson Ave / Trilby St / Going Ave / Columbia Pl / Maple Ave / Lafayette St / Lacey Rd	5,055
	SRF-48	North Pratt Phase 2	North Pratt: City of Birmingham	35214	Crooked St / Adams St / Beall St / Miles Ave / Elm St / Mitchell St / Page Ave / Beech Ave / Cherry Ave	4,711

Table 2. Main Water Line Replacement Projects

District/ City	Project Designation	Project Name	Project Location	Zip Code	Project Roadways	Length of Water Main Replacement (ft)
Adamsville	SRF-8	Longview Drive / Villa Esta Drive - Area 1 Longview Drive / Villa Esta Drive - Area 2	City of Adamsville / City of Forestdale	35005 35214	Longview Drive / Garrett Cir / Villa Esta Drive / Echo Terrace / Choctaw Drive	5,439
Fairfield	SRF-53	Fairfield Community Phase 5	Fairfield	35064 35208	61st St / 62nd St / Court F / Myron Massey Blvd / 60th Pl / Court G / Ave H / 56th St	7,604
Tarrant	SFR-55	Tarrant Community Phase 3	Tarrant	35217	Highland St / Mountain Cir / Birmingham St / Princeton Ave N / Waverly St / Faye Dr / Bristol St / Portland St / Elm Ave / Burgin Ave / Auburn Ave? / Elizabeth Ave, Linthicum Cir / Danbury Cir / West St	4,959







Legend

- BWWB - Services
- BWWB - Water Main

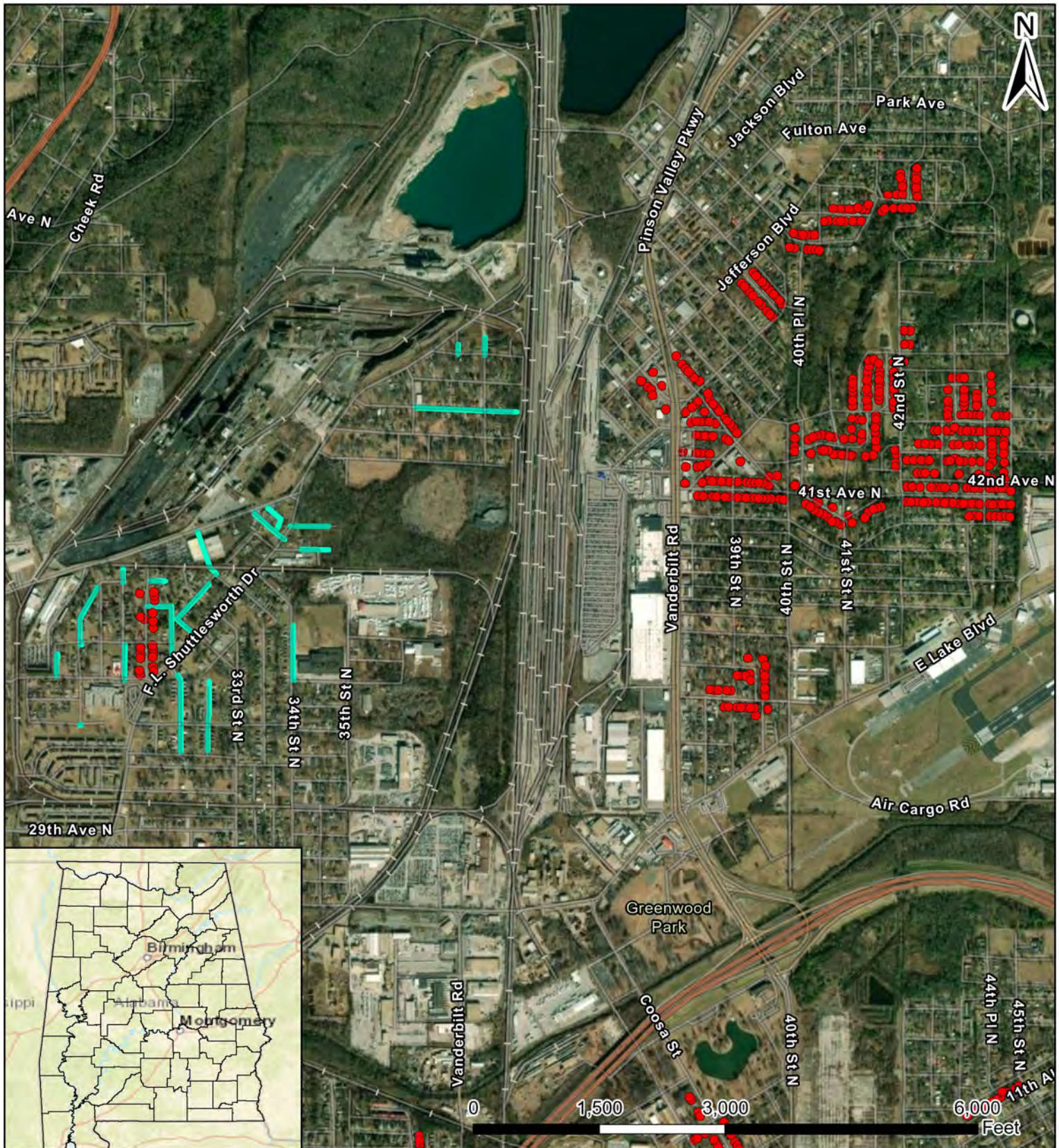
CLIENT:  **BIRMINGHAM WATER WORKS**
 Birmingham Water Works
 3600 1st Ave N
 Birmingham, AL 35222

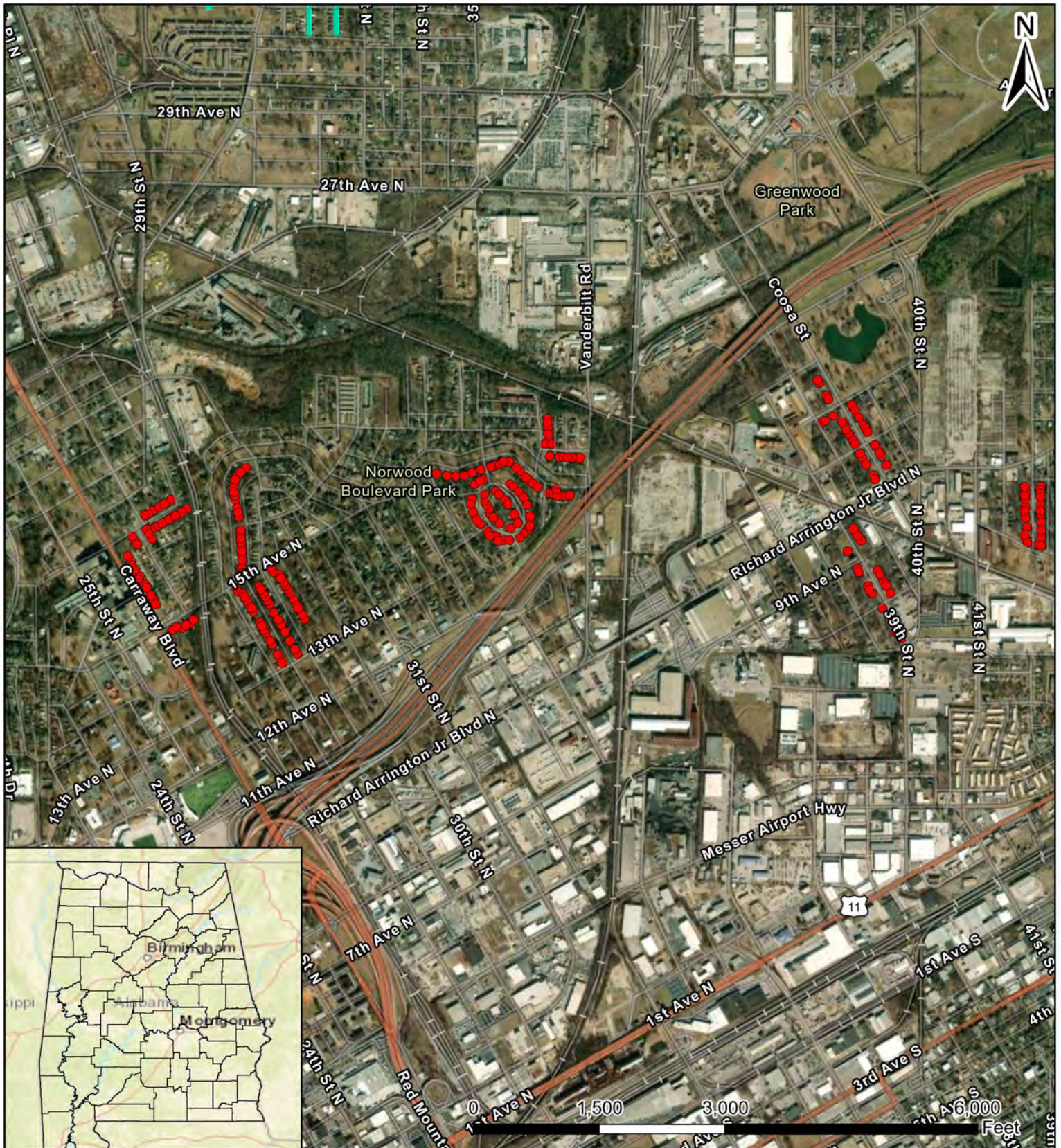


Site Location Map

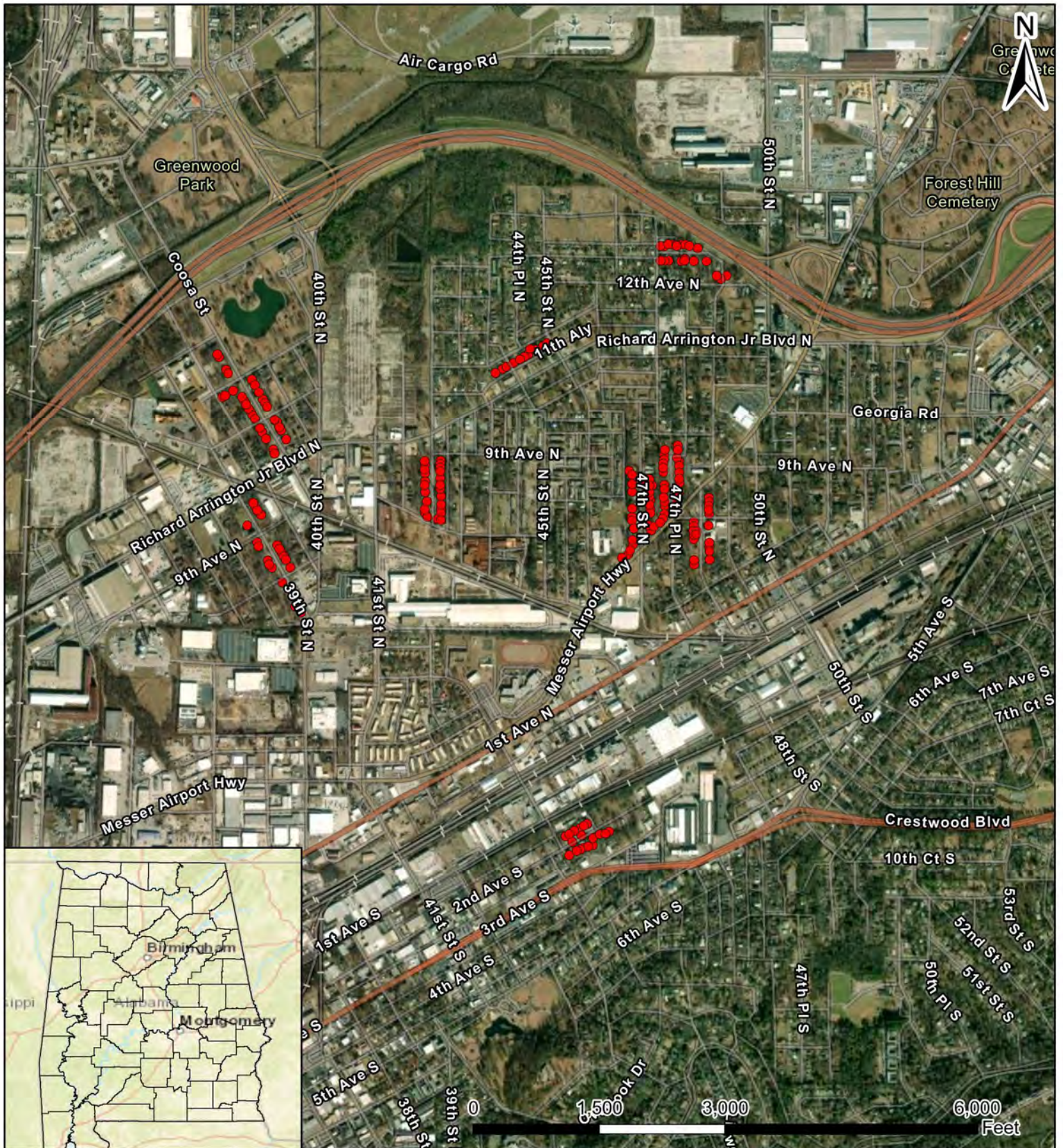
**Birmingham Water System Improvements
 District 2
 Birmingham, Jefferson County, Alabama**

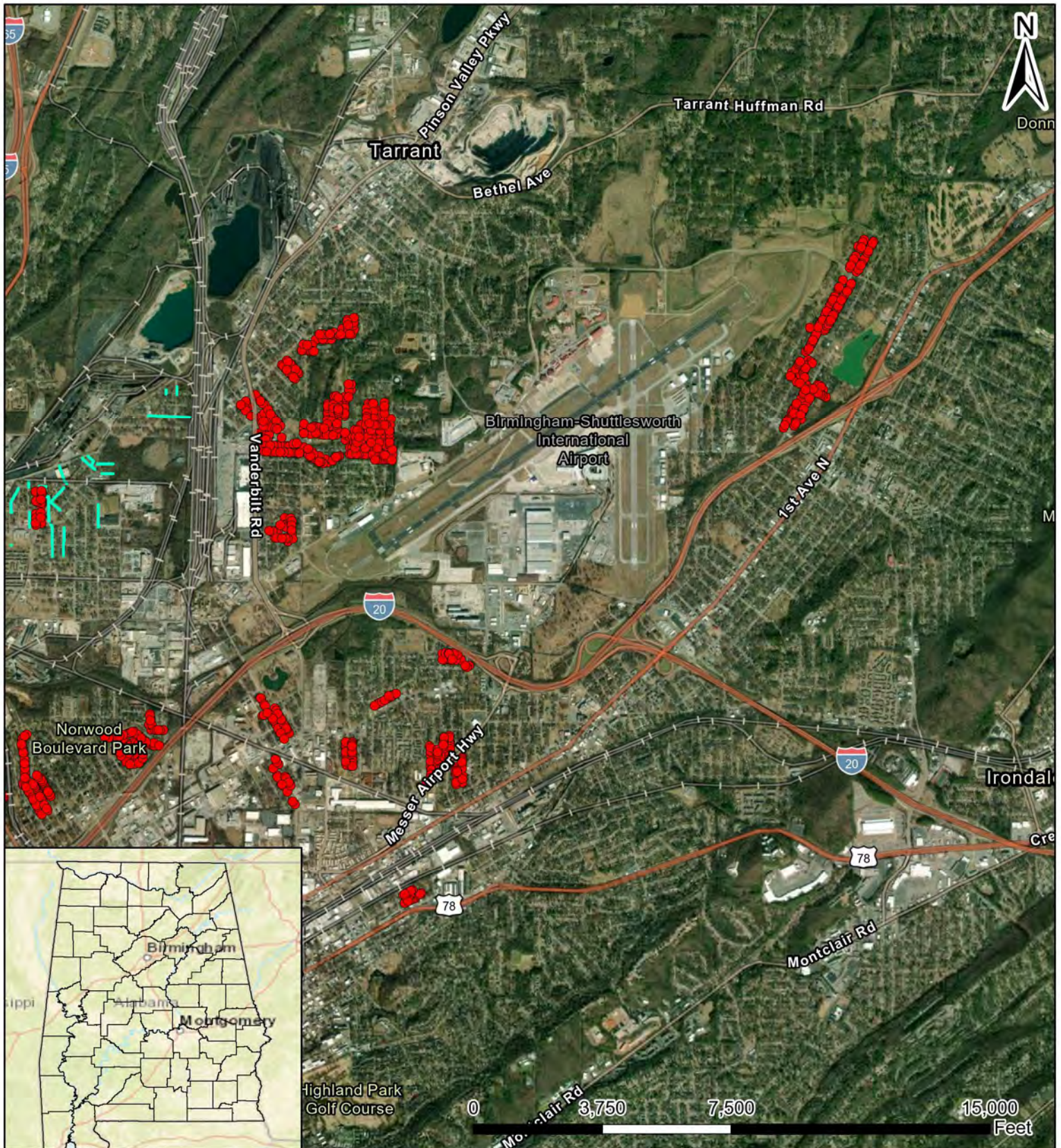
SCALE: AS SHOWN	DATE: February 2024	PROJECT NO:
DRAWN BY: Nenstiel	SOURCE: ESRI, USGS (2020), BWWB	Figure No.
CHECKED BY: Fikri		2.1





<div><div>Legend</div><div><div><div></div><div>BWWB - Services</div></div><div><div></div><div>BWWB - Water Main</div></div></div></div>	<div><div>CLIENT:</div><div><div><div></div><div>BIRMINGHAM</div><div>WATER WORKS</div></div><div>Birmingham Water Works</div><div>3600 1st Ave N</div><div>Birmingham, AL 35222</div></div></div>	<div><div>Site Location Map</div><div>Birmingham Water System Improvements</div><div>District 4</div><div>Birmingham, Jefferson County, Alabama</div></div>		
	<div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><</div></div>			





Legend

- BWWB - Services
- BWWB - Water Main

CLIENT:



Birmingham Water Works
3600 1st Ave N
Birmingham, AL 35222



Site Location Map

Birmingham Water System Improvements
District 4
Birmingham, Jefferson County, Alabama

SCALE: AS SHOWN

DATE:
February 2024

PROJECT NO:

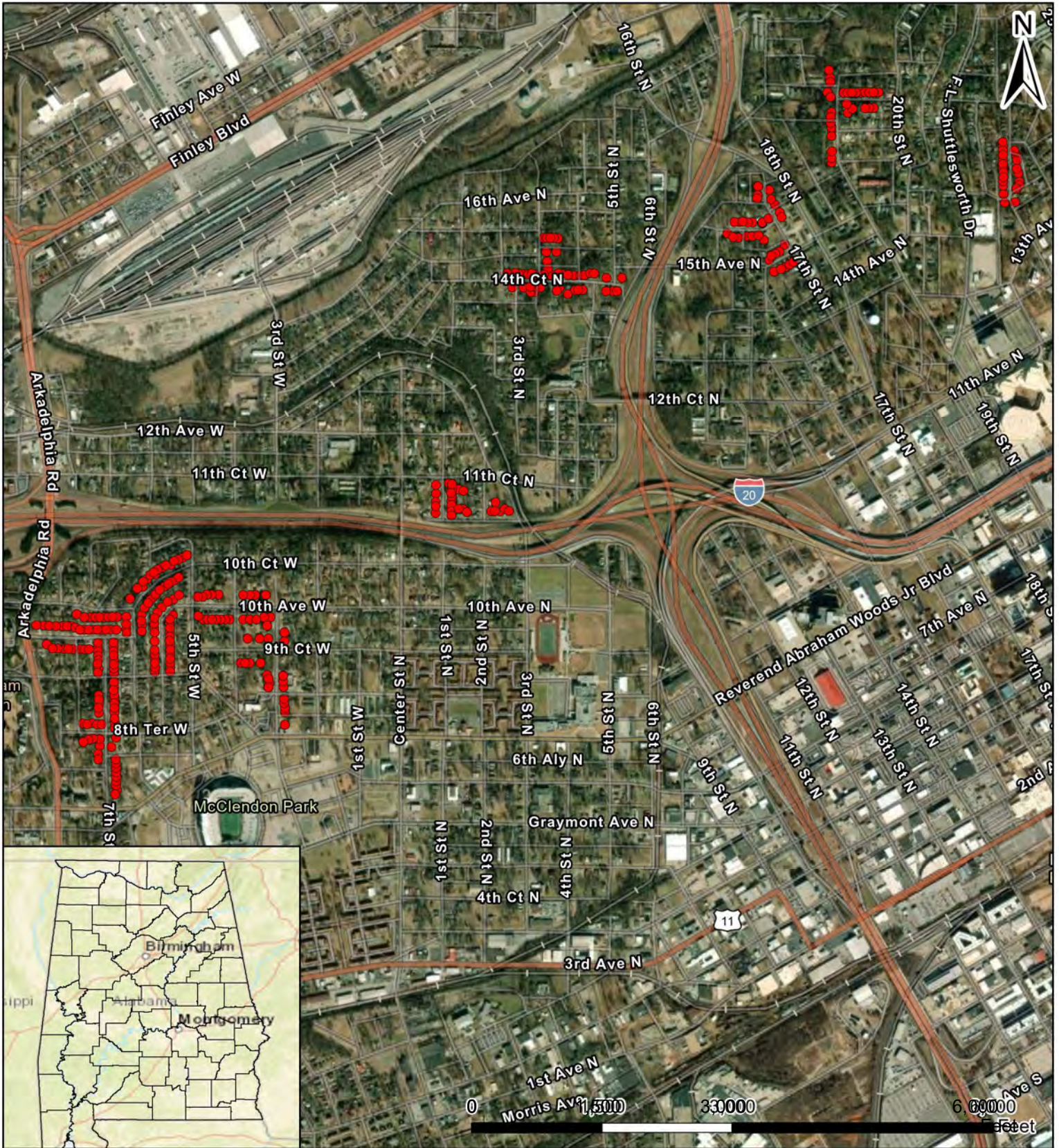
DRAWN BY: Nenstiel

SOURCE: ESRI,
USGS (2020),
BWVB

CHECKED BY: Fikri

Figure No.

2.2D



Legend

- BWWB - Services
- BWWB - Water Main

CLIENT:



Birmingham Water Works
3600 1st Ave N
Birmingham, AL 35222



Site Location Map

Birmingham Water System Improvements
District 5
Birmingham, Jefferson County, Alabama

SCALE: AS SHOWN

DATE:
February 2024

PROJECT NO:

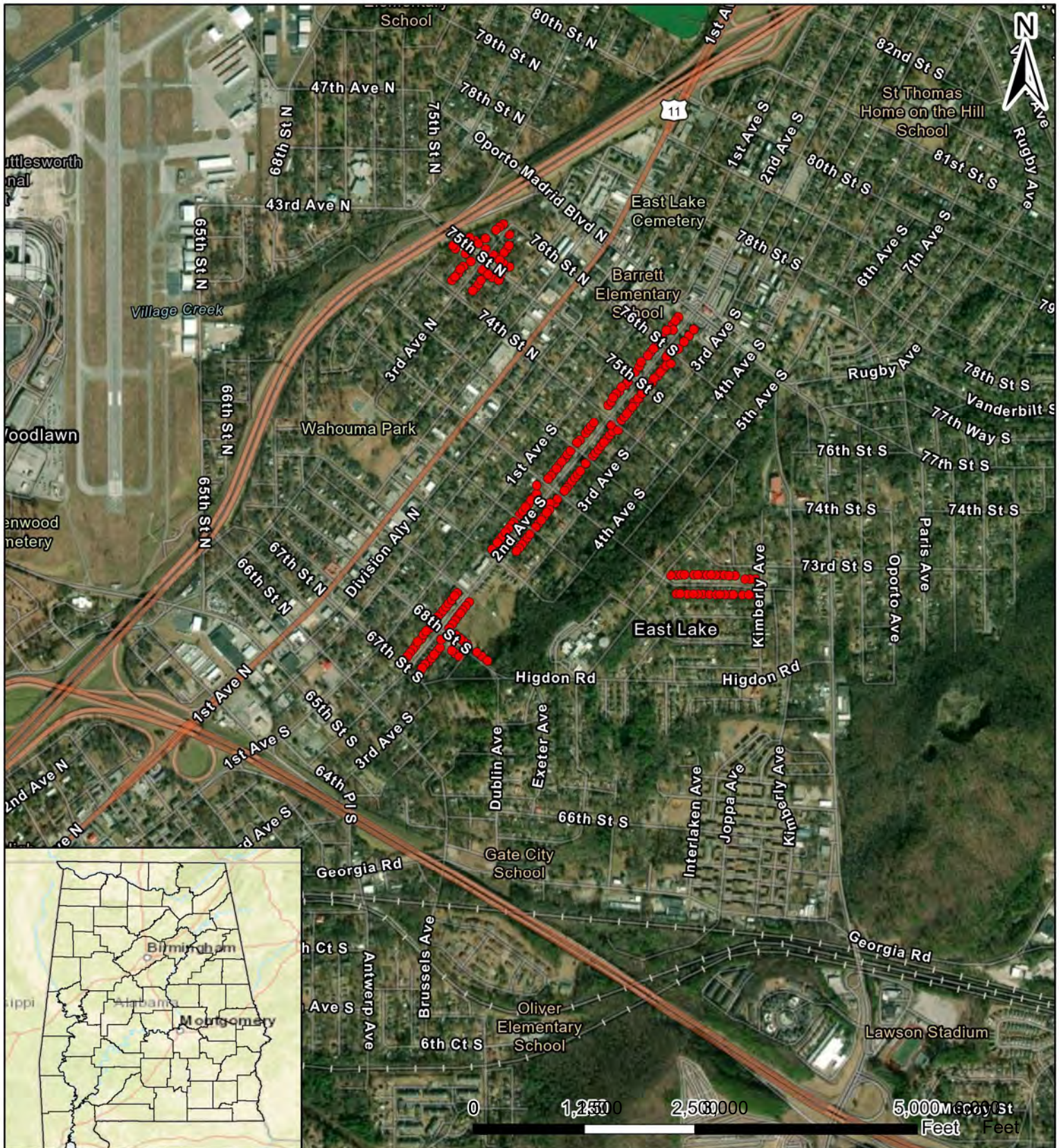
DRAWN BY: Nenstiel

SOURCE: ESRI,
USGS (2020),
BWWB

CHECKED BY: Fikri

Figure No.

2.3A



Legend	CLIENT:  Birmingham Water Works 3600 1st Ave N Birmingham, AL 35222			Site Location Map Birmingham Water System Improvements District 5 Birmingham, Jefferson County, Alabama		
<div data-bbox="113 1785 138 1816" style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></div> BWWB - Services <div data-bbox="81 1837 162 1869" style="display: inline-block; width: 30px; height: 15px; background-color: red; margin-right: 5px;"></div> BWWB - Water Main				SCALE: AS SHOWN	DATE: February 2024	PROJECT NO:
				DRAWN BY: Nenstiel	SOURCE: ESRI, USGS (2020), BWWB	Figure No.
				CHECKED BY: Fikri		2.3B



Legend

- BWWB - Services
- BWWB - Water Main

CLIENT: **BIRMINGHAM WATER WORKS**
 Birmingham Water Works
 3600 1st Ave N
 Birmingham, AL 35222



Site Location Map

Birmingham Water System Improvements
 District 6
 Birmingham, Jefferson County, Alabama

SCALE: AS SHOWN	DATE: February 2024	PROJECT NO:
DRAWN BY: Nenstiel	SOURCE: ESRI, USGS (2020), BWWB	Figure No.
CHECKED BY: Fikri		2.4A



Legend

- BWWB - Services
- BWWB - Water Main

CLIENT:



Birmingham Water Works
3600 1st Ave N
Birmingham, AL 35222



Site Location Map

Birmingham Water System Improvements
District 7
Birmingham, Jefferson County, Alabama

SCALE: AS SHOWN

DATE:
February 2024

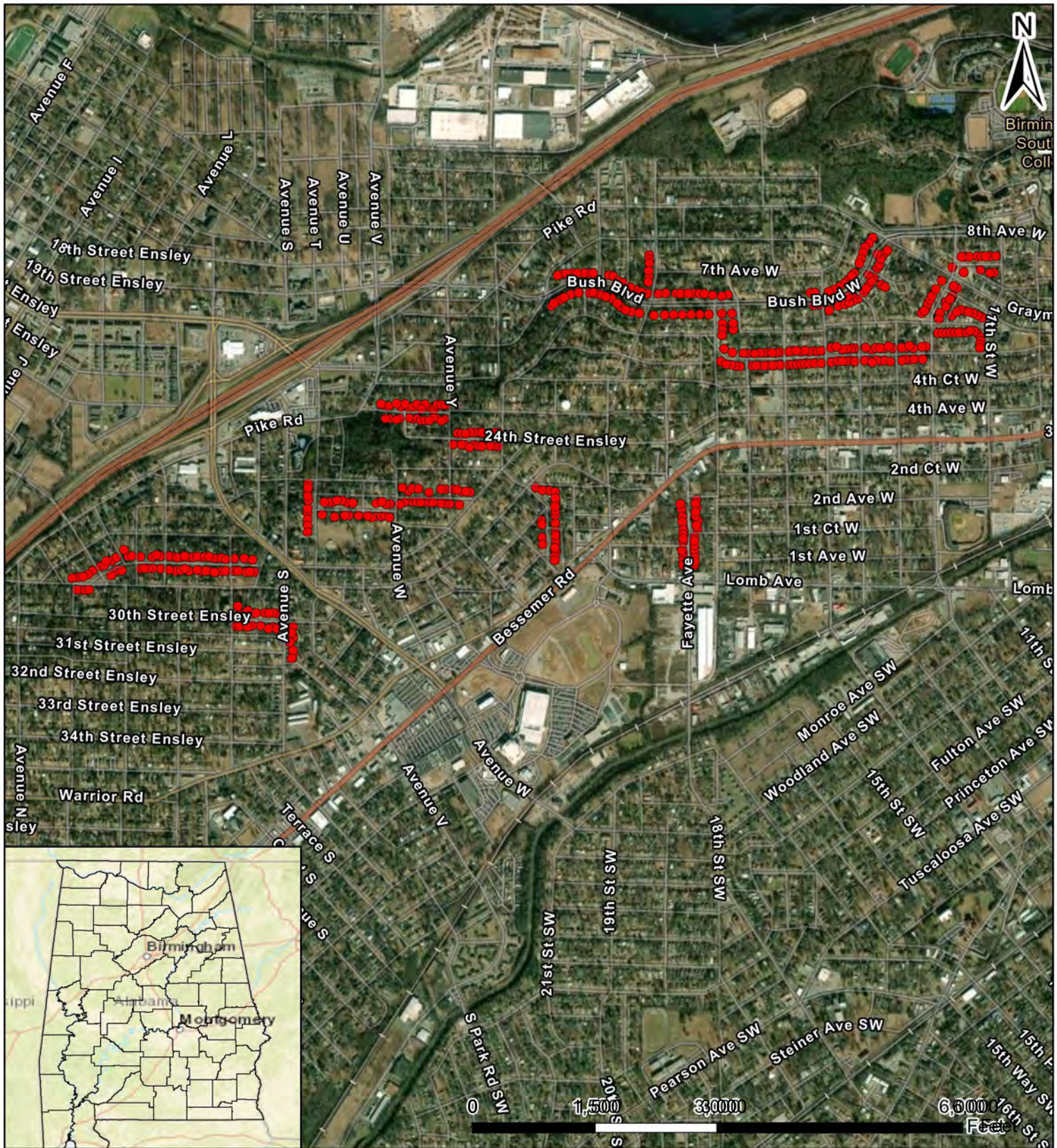
PROJECT NO:

DRAWN BY: Nenstiel

SOURCE: ESRI,
USGS (2020),
BWWB

Figure No.

2.5



Legend

- BWWB - Services
- BWWB - Water Main

CLIENT:



Birmingham Water Works
3600 1st Ave N
Birmingham, AL 35222

Site Location Map

Birmingham Water System Improvements
District 8
Birmingham, Jefferson County, Alabama

SCALE: AS SHOWN

DATE:
February 2024

PROJECT NO:

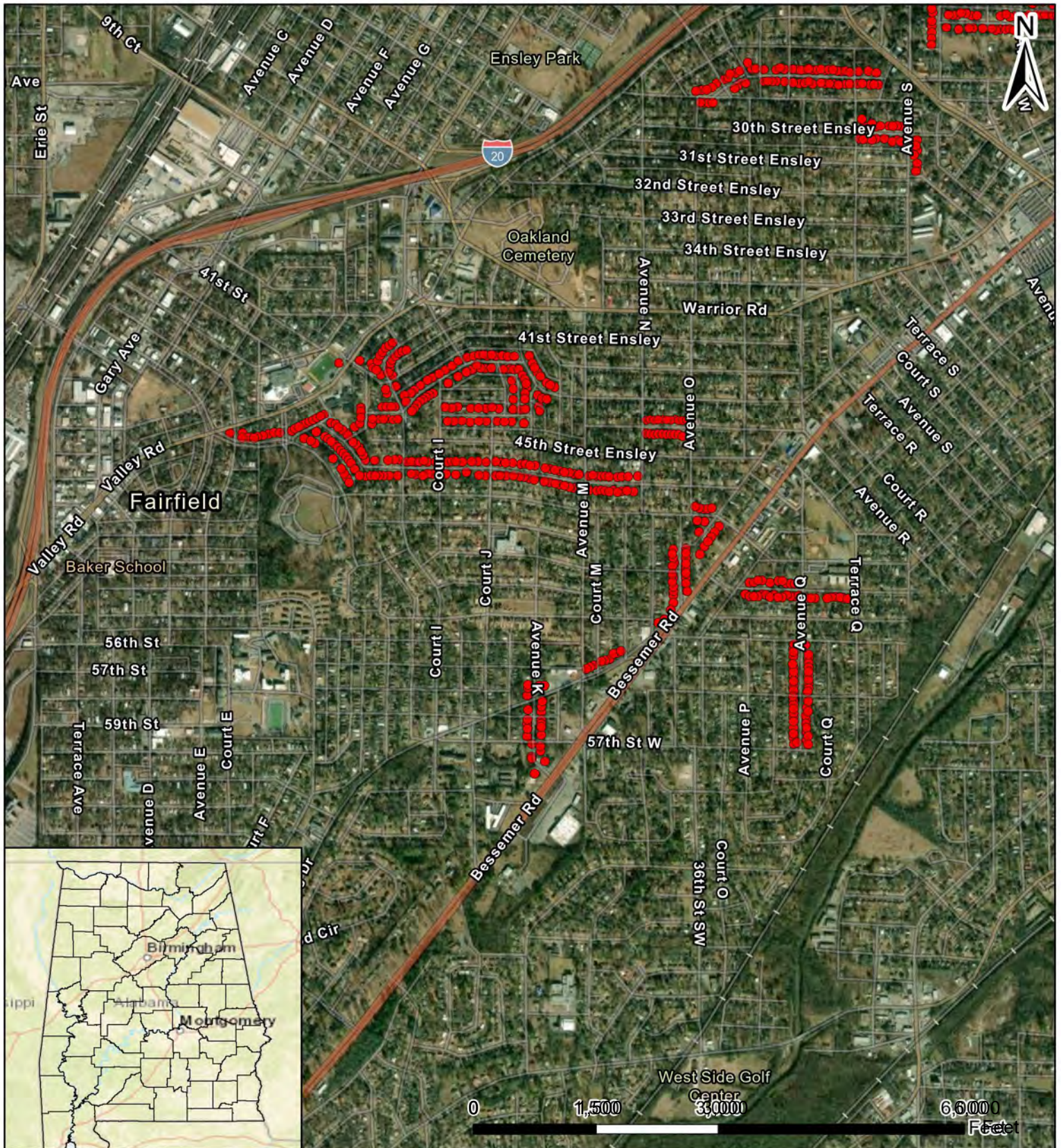
DRAWN BY: Nenstiel

SOURCE: ESRI,
USGS (2020),
BWWB

Figure No.

CHECKED BY: Fikri

2.6A



Legend

- BWWB - Services
- BWWB - Water Main

CLIENT:



Birmingham Water Works
3600 1st Ave N
Birmingham, AL 35222



Site Location Map

Birmingham Water System Improvements
District 8
Birmingham, Jefferson County, Alabama

SCALE: AS SHOWN

DATE:
February 2024

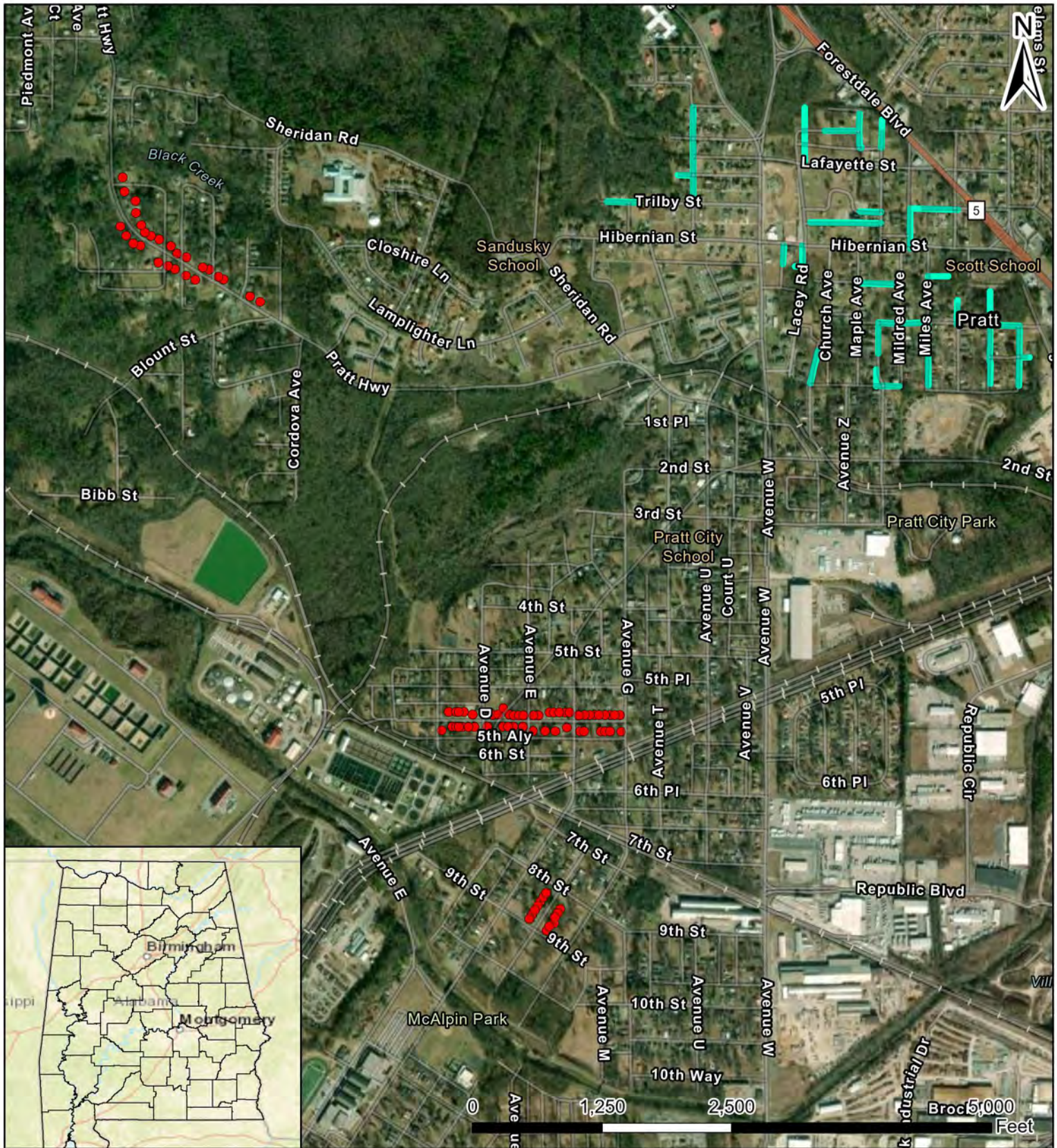
PROJECT NO:

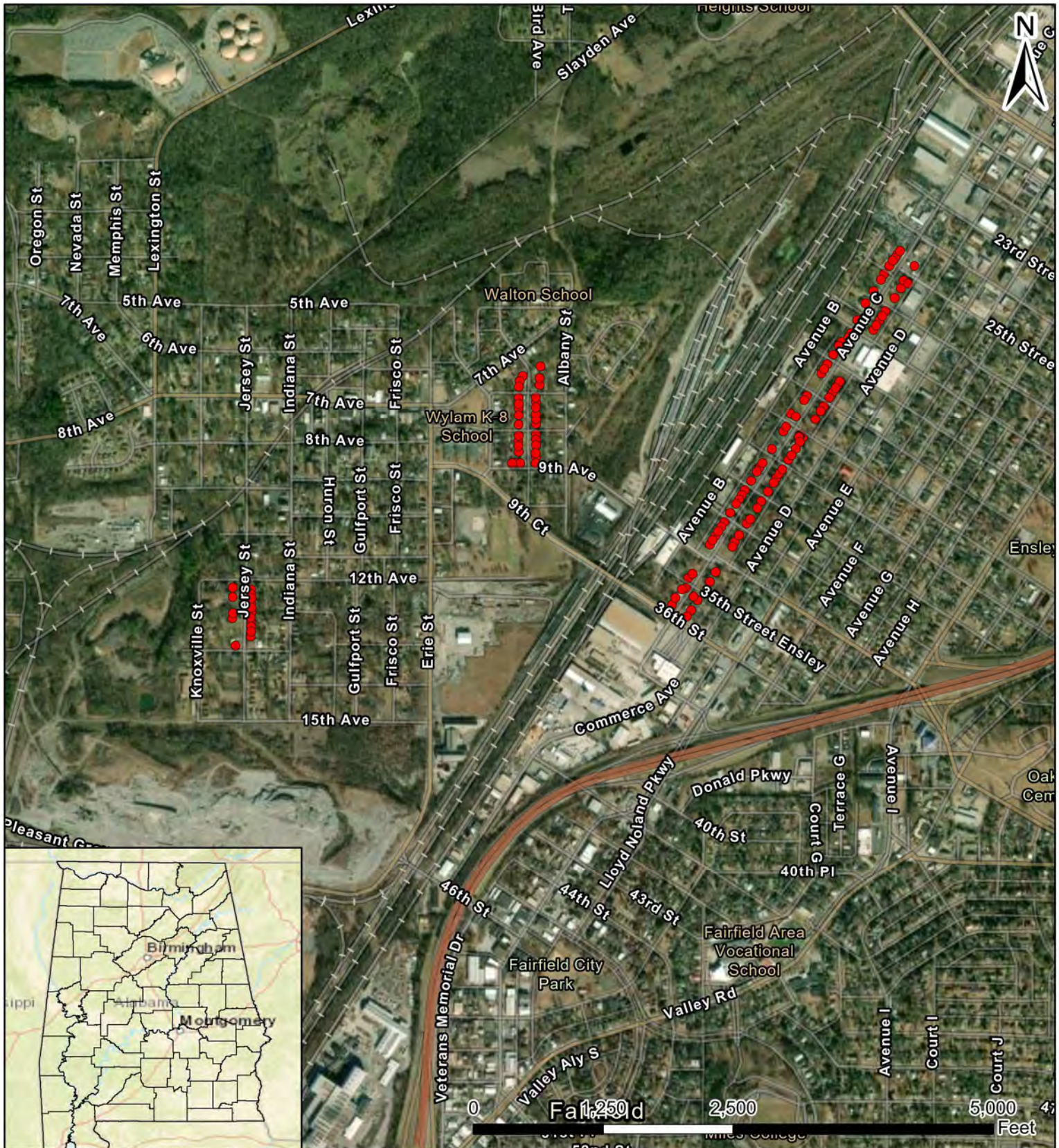
DRAWN BY: Nenstiel

SOURCE: ESRI,
USGS (2020),
BWWB

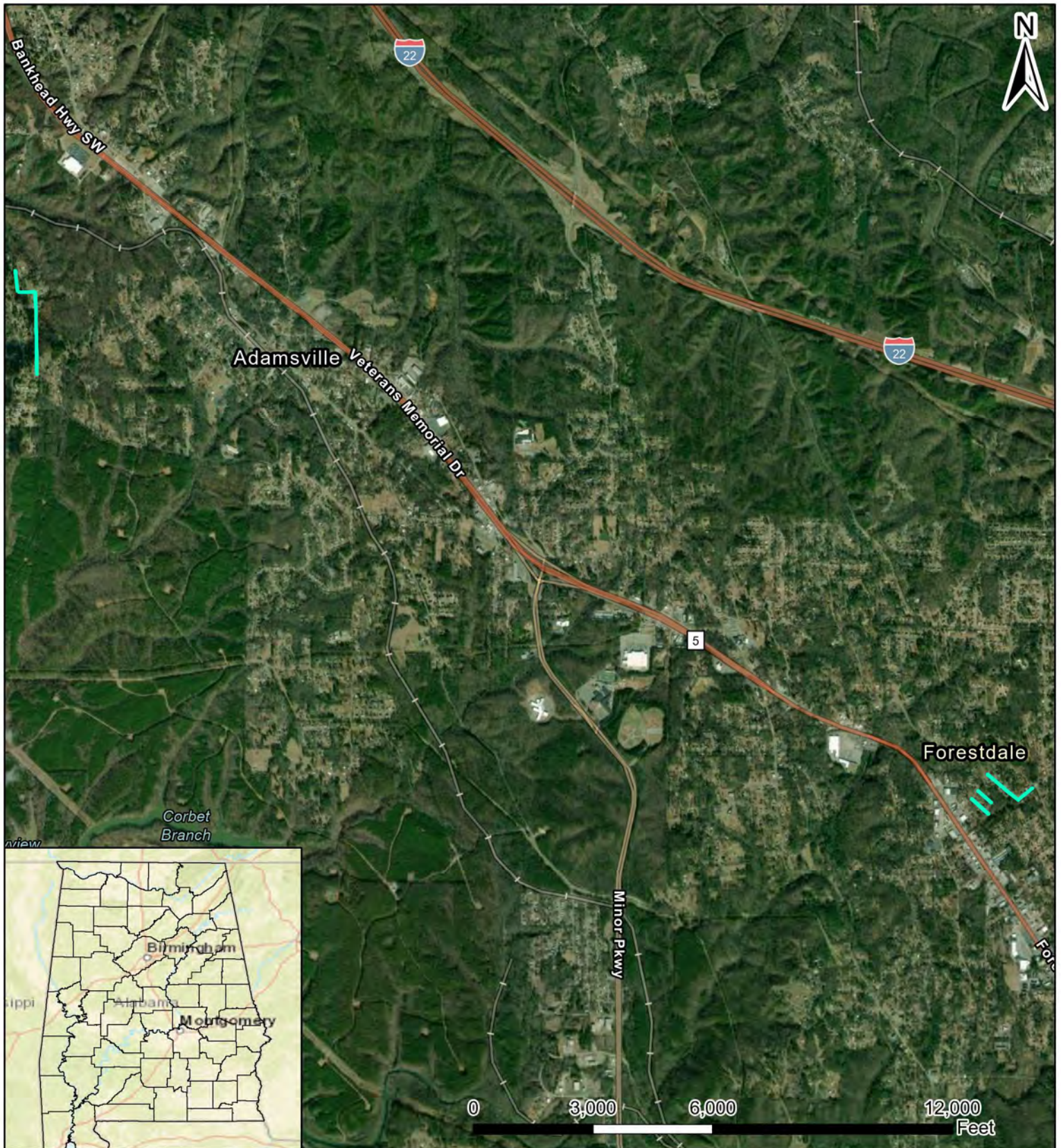
Figure No.

2.6B

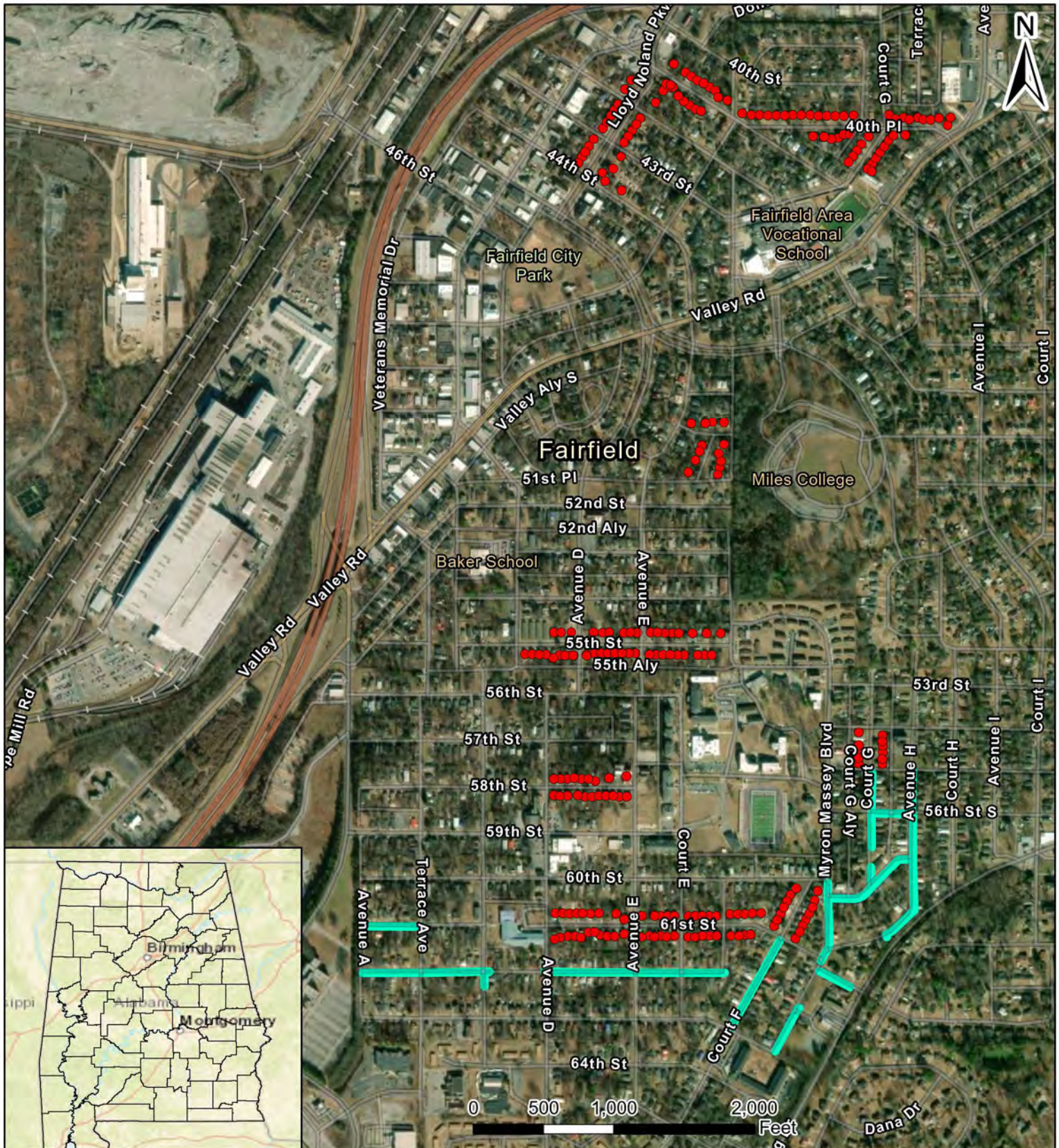




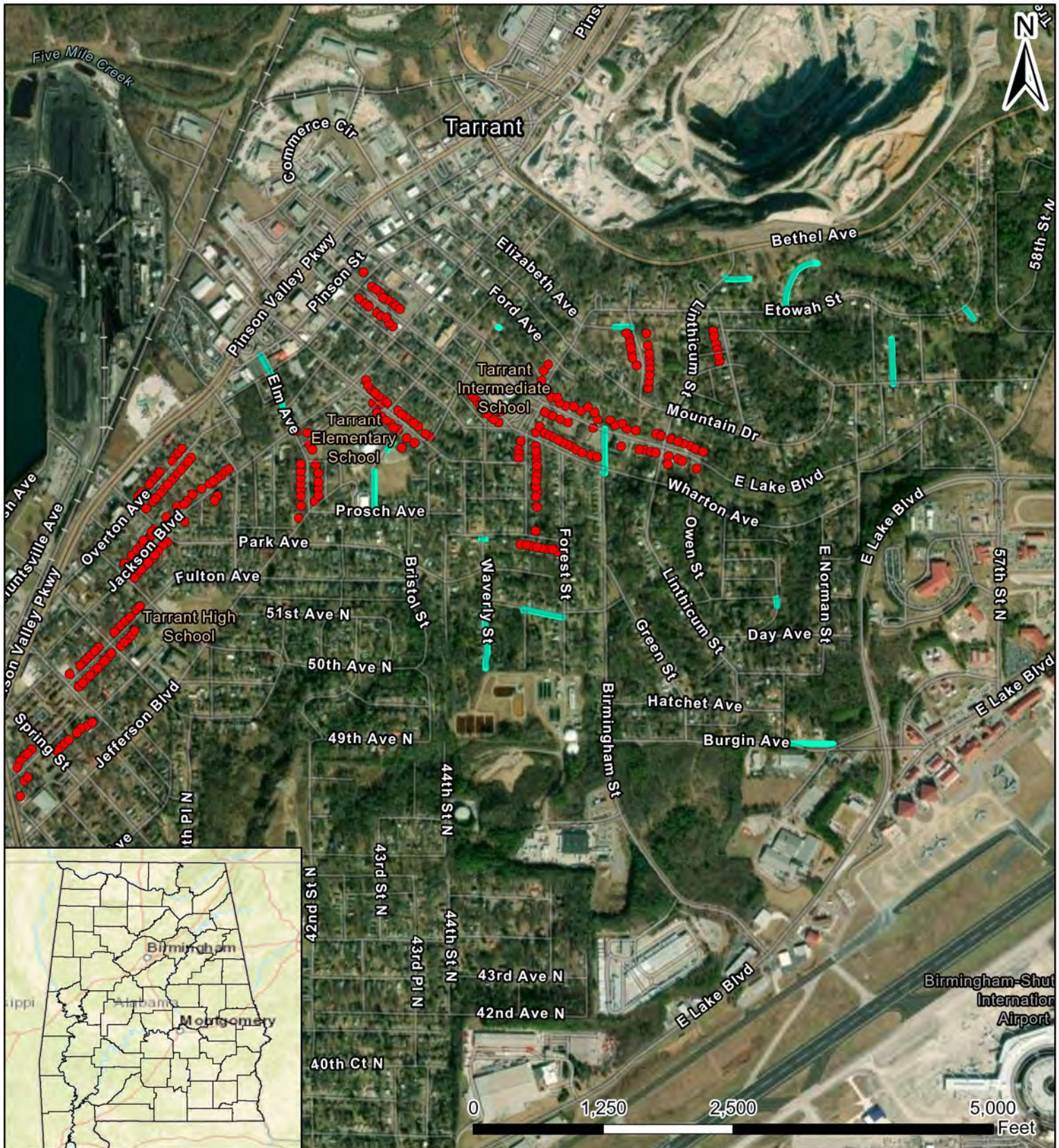
<div>Legend</div> <div><div><div></div></div> BWWB - Services</div> <div><div></div> BWWB - Water Main</div>	<div>CLIENT:</div> <div><div><div></div></div> BIRMINGHAM WATER WORKS</div> <div>Birmingham Water Works</div> <div>3600 1st Ave N</div> <div>Birmingham, AL 35222</div>	Site Location Map		
		Birmingham Water System Improvements District 9 Birmingham, Jefferson County, Alabama		
	<div><div></div></div>	SCALE: AS SHOWN	DATE: February 2024	PROJECT NO:
		DRAWN BY: Nenstiel	SOURCE: ESRI, USGS (2020), BWWB	Figure No.
CHECKED BY: Fikri			2.7B	



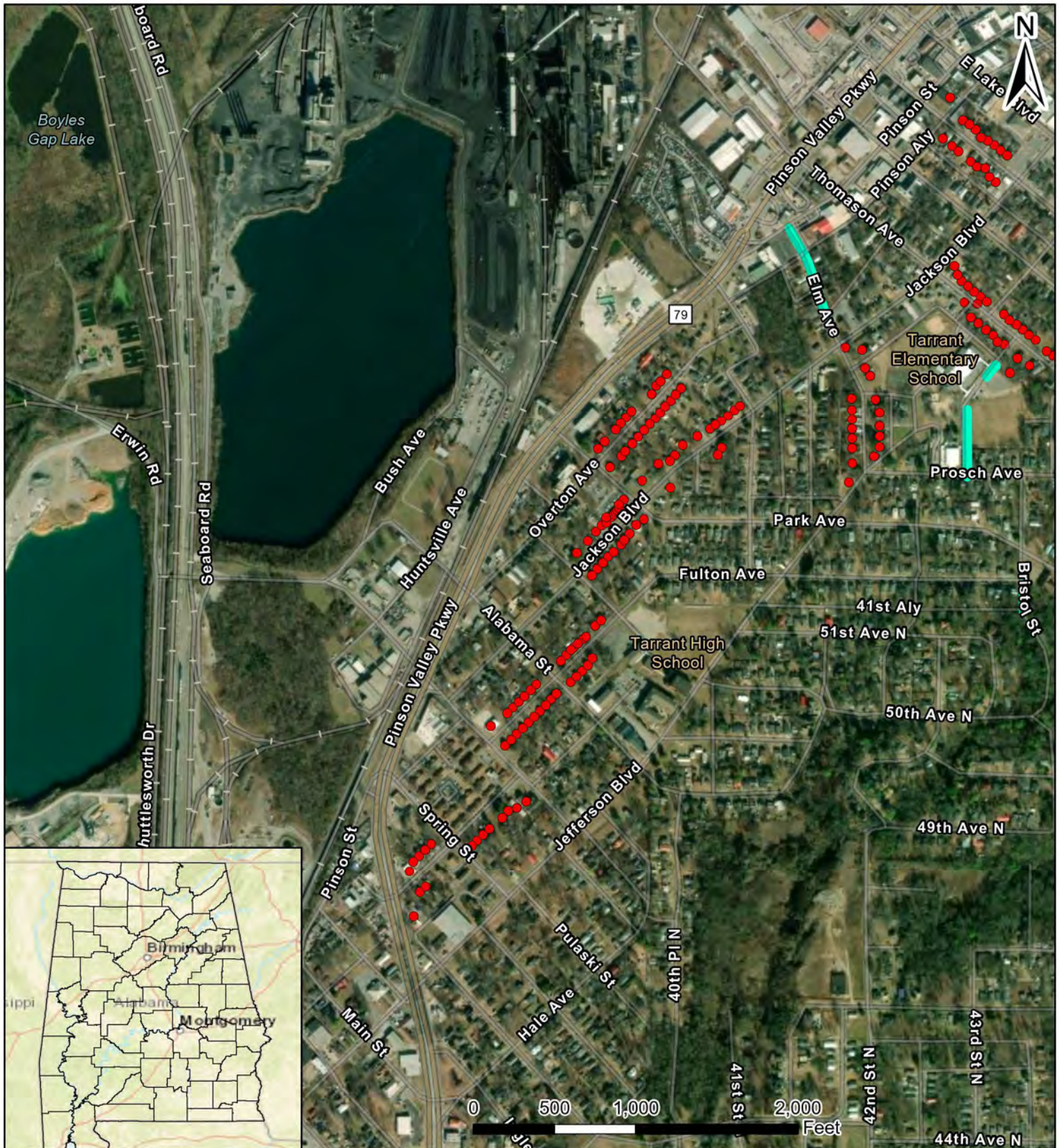
<h1>Legend</h1> <div><div></div> BWWB - Services</div> <div><div></div> BWWB - Water Main</div>	<div>CLIENT: </div> <div>Birmingham Water Works</div> <div>3600 1st Ave N</div> <div>Birmingham, AL 35222</div>	<h2>Site Location Map</h2>		
		<div>Birmingham Water System Improvements</div> <div>Adamsville</div> <div>Adamsville, Jefferson County, Alabama</div>		
		SCALE: AS SHOWN	DATE: February 2024	PROJECT NO:
		DRAWN BY: Nenstiel	SOURCE: ESRI, USGS (2020), BWWB	Figure No.
		CHECKED BY: Fikri		2.8



Legend <div> <div></div> BWWB - Services </div> <div> <div></div> BWWB - Water Main </div>	CLIENT: Birmingham Water Works 3600 1st Ave N Birmingham, AL 35222		Site Location Map Birmingham Water System Improvements Fairfield Birmingham, Jefferson County, Alabama	
			SCALE: AS SHOWN DATE: February 2024 PROJECT NO:	Figure No. 2.9
			DRAWN BY: Nenstiel CHECKED BY: Fikri	SOURCE: ESRI, USGS (2020), BWWB



Legend <div> <div></div> BWWB - Services </div> <div> <div></div> BWWB - Water Main </div>	CLIENT: Birmingham Water Works 3600 1st Ave N Birmingham, AL 35222	Site Location Map Birmingham Water System Improvements Tarrant Tarrant, Jefferson County, Alabama
		SCALE: AS SHOWN DATE: February 2024 PROJECT NO:
	DRAWN BY: Nenstiel SOURCE: ESRI, USGS (2020), BWWB	Figure No.
	CHECKED BY: Fikri	2.10A



Legend

- BWWB - Services
- BWWB - Water Main

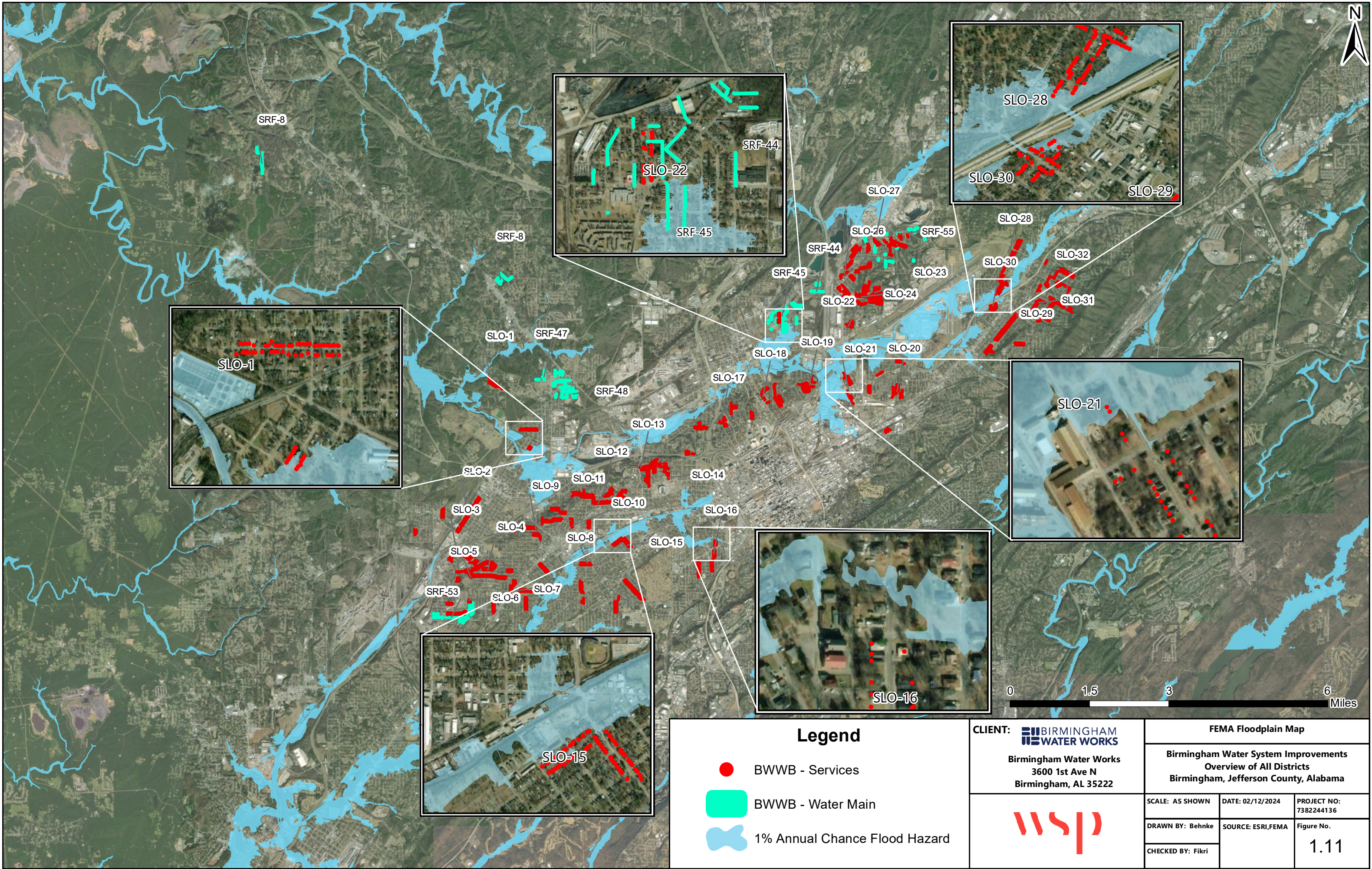
CLIENT: **BIRMINGHAM WATER WORKS**
 Birmingham Water Works
 3600 1st Ave N
 Birmingham, AL 35222



Site Location Map

Birmingham Water System Improvements
 Tarrant
 Tarrant, Jefferson County, Alabama

SCALE: AS SHOWN	DATE: February 2024	PROJECT NO:
DRAWN BY: Nenstiel	SOURCE: ESRI, USGS (2020), BWWB	Figure No.
CHECKED BY: Fikri		2.10B



Legend

- BWWB - Services
- BWWB - Water Main
- 1% Annual Chance Flood Hazard

CLIENT: **BIRMINGHAM WATER WORKS**
Birmingham Water Works
3600 1st Ave N
Birmingham, AL 35222



FEMA Floodplain Map

**Birmingham Water System Improvements
Overview of All Districts
Birmingham, Jefferson County, Alabama**

SCALE: AS SHOWN	DATE: 02/12/2024	PROJECT NO: 7382244136
DRAWN BY: Behnke	SOURCE: ESRI, FEMA	Figure No.
CHECKED BY: Fikri		1.11