




Categorical Exclusion Subject to Section 58.5 Worksheet

Grantee	East Liverpool, Ohio
Grant Number	22 OH-20912
Activity Name	Thompson Ave Water Tank Improvements
Activity Location	Thompson Ave, East Liverpool, Ohio 43920
Activity Description and Outcomes: The project will include the necessary Engineering Design and Construction associated with improvements to portions of the City's primary water transmission mains that discharge directly from the City's Water Treatment Plant to the existing (3) million gallon Thompson Avenue water storage tank.	
Determination: <input checked="" type="checkbox"/> Categorical Exclusion Subject to Sec. 58.5 [per 24 CFR Section 58.35(a)] <input type="checkbox"/> Categorical Exclusion, Subsequently Exempt (No compliance or mitigation required for any of the listed statutes or authorities) [per 24 CFR Section 58.34(a)(12)]	
Preparer Name: Jason Matyac	
Signature 	Date: 12/9/2024

List of Attachments

<input checked="" type="checkbox"/> Location Map
<input checked="" type="checkbox"/> Site Photographs
<input type="checkbox"/> Copies of other Environmental Analyses (if applicable) List: <input type="text"/>
<input checked="" type="checkbox"/> Other Relevant Correspondence and Notifications (if applicable) List: <input type="text"/>
<input checked="" type="checkbox"/> Statutory Checklist Supporting Documentation
<input type="checkbox"/> Notice of Intent to Request Release of Funds (NOI/RROF)* Date: <input type="text"/> <i>*Not required if project converts to "Exempt" per 24 CFR 58.34(a)(12)</i>
<input type="checkbox"/> Request for Release of Funds (RROF)* Date: <input type="text"/> <i>*Or Certification of Determination of Subsequent Exemption For a Categorical Exclusion Project if project converts to "Exempt" per 24 CFR 58.34(a)(12)</i>
<input type="checkbox"/> Release of Funds (ROF) Date: <input type="text"/>
<input type="checkbox"/> Additional Documentation Describe: <input type="text"/>



Statutory Checklist Instructions:

For each of the environmental laws and authorities listed below, determine the level of compliance required and provide a narrative explanation and list of supporting documentation. **The narrative must explain decision-making and compliance procedures.** Attach all supporting documentation to this worksheet.

Statutory Checklist

Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5	Compliance Required?	Explanation and List of Compliance Documentation
<p>Historic Preservation</p> <p>Resources: State Historic Preservation Office HUD Historic Preservation</p>	<p>Yes</p>	<p>The project will include the necessary Engineering Design and Construction associated with improvements to portions of the City’s primary water transmission mains that discharge directly from the City’s Water Treatment Plant to the existing (3) million gallon Thompson Avenue water storage tank. The SHPO determined that the work would not affect any historic properties. No further coordination is necessary unless the project changes or new or additional historic properties are discovered during the implementation of the project. All four tribes with interest in Columbiana County, Ohio were identified and contacted on Oct. 7, 2024. As of the submission of this report, no responses have been received. See attached Tribal letters, SHPO letter, and Disturbance Assessment performed in accordance with Section 106 of the National Historic Preservation Act of 1966. See Appendix B.</p>
<p>Floodplain Management</p> <p>Resources: Floodplain Maps Floodplain Administrators HUD Floodplain Management</p>	<p>Yes</p>	<p>The Project is not located within a flood hazard area per the National Flood Hazard Layer (FIRMette). The area is designated as Zone X (i.e., Area of Minimal Flood Hazard) as shown in the FIRMette in Appendix C. The location is within FEMA FIRM Panel # 39029C0427E-eff. 5/2/2012.</p>
<p>Wetland Protection</p> <p>Resources: NRCS Web Soil Survey National Wetlands Inventory Ohio EPA Division of Surface Water US Army Corps of Engineers Regulatory (Permits)</p>	<p>Yes</p>	<p>National Wetland Inventory website has been utilized to determine about wetland resources in the study area. No wetlands or streams were identified within the project area during the desktop review and no wetlands were identified during field review, therefore, no permit or US Army Corps of Engineers (USACE) consultation needed. National Wetlands Inventory map shown in Appendix D.</p>

Statutory Checklist

Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5	Compliance Required?	Explanation and List of Compliance Documentation
HUD Wetlands Protection		
<p align="center">Coastal Zone Management</p> <p>Resources: Ohio Office of Coastal Management Ohio Coastal Atlas Map Viewer HUD Coastal Zone Management</p>	<p align="center">Yes</p>	<p>The project area is not located within a coastal zone area. See attached map in Appendix K.</p>
<p align="center">Sole Source Aquifers</p> <p>Resources: Ohio EPA Sole Source Aquifers in Ohio HUD Sole Source Aquifers</p>	<p align="center">Yes</p>	<p>This project area is not located near a sole source aquifer. See attached map in Appendix E.</p>
<p align="center">Endangered Species</p> <p>Resources: US Fish & Wildlife Service Section 7 information Endangered Species in Ohio Ohio Natural Heritage Database HUD Endangered Species</p>	<p align="center">Yes</p>	<p>The project will include the necessary Engineering Design and Construction associated with improvements to portions of the City’s primary water transmission mains that discharge directly from the City’s Water Treatment Plant to the existing (3) million gallon Thompson Avenue water storage tank. No endangered species will be affected during construction, trees with an 8 inch diameter or more will be removed from the project area, however, to protect the Indiana bat, northern long-eared bat, and tricolored bat potential habitats they will be removed between October 1st-March 31st and will not have any adverse effects on federally endangered, threatened, proposed or candidate species. See attached list of endangered species commonly found in Columbiana County, Ohio in Appendix F.</p>
<p align="center">Wild and Scenic Rivers</p> <p>Resources: ODNR Scenic Rivers HUD Wild and Scenic Rivers</p>	<p align="center">Yes</p>	<p>The project will include the necessary Engineering Design and Construction associated with improvements to portions of the City’s primary water transmission mains that discharge directly from the City’s Water Treatment Plant to the existing (3) million gallon Thompson Avenue water storage tank. The project area does not include any scenic river. See Appendix G for ODNR Scenic Rivers Map.</p>

Statutory Checklist

Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5	Compliance Required?	Explanation and List of Compliance Documentation
<p align="center">Air Quality</p> <p>Resources: Ohio EPA Asbestos Program Ohio EPA Notification of Demolition and Renovation HUD Air Quality</p>	<p align="center">Yes</p>	<p>The project will include the necessary Engineering Design and Construction associated with improvements to portions of the City’s primary water transmission mains that discharge directly from the City’s Water Treatment Plant to the existing (3) million gallon Thompson Avenue water storage tank. This activity will have no impact on air quality at or near the project area. Columbiana County is not listed as non-attainment area for CO, particulate matter less than 2.5 microns (PM2.5) and 10 microns (PM10), and Ozone Hot Spots. See Appendix L for Air Quality Map.</p>
<p align="center">Farmland Protection</p> <p>Resources: NRCS Farmland Protection Policy Act HUD Farmlands Protection</p>	<p align="center">Yes</p>	<p>The project will include the necessary Engineering Design and Construction associated with improvements to portions of the City’s primary water transmission mains that discharge directly from the City’s Water Treatment Plant to the existing (3) million gallon Thompson Avenue water storage tank. Project area is located within an Urban area, therefore no Farmlands will be disturbed in construction activity. See Appendix H for Farmland/Urbanized Area Map.</p>
<p align="center">Noise Abatement and Control</p> <p>Resources: HUD Noise Abatement and Control HUD Noise Guidebook HUD Day/Night Noise Level Electronic Assessment Tool HUD Sound Transmission Classification Assessment Tool ODOT Traffic Count Data Ohio Airport Information Airport Master Records and Reports PUCO/ORDC Railroad Information System Federal Railroad Administration Query by Location tool</p>	<p align="center">Yes</p>	<p>The work being performed will not cause noise levels in the neighborhood to increase beyond that of normal construction activities completed during daytime hours. No Noise analysis was conducted as the proposed project will not result in noise impact.</p>
<p align="center">Airport Clear Zones and Accident Potential Zones</p> <p>Resources: Ohio Airport Information HUD Airport Hazards Airport Master Records and Reports</p>	<p align="center">Yes</p>	<p>The project area is not located within 15,00 feet of a military airport or within 2,500 feet of a civilian airport. Airport closest to project area is 5.29 miles away. See Appendix I for Airport Distance to Project Area Map.</p>

Statutory Checklist

Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5	Compliance Required?	Explanation and List of Compliance Documentation
<p align="center">Explosive and Flammable Operations</p> <p>Resources: HUD Explosive and Flammable Facilities US EPA NEPAassist US EPA Envirofacts HUD Choosing an Environmentally Safe Site Acceptable Separation Distance Calculator Acceptable Separation Distance Guidebook</p>	<p align="center">Yes</p>	<p>The project will include the necessary Engineering Design and Construction associated with improvements to portions of the City’s primary water transmission mains that discharge directly from the City’s Water Treatment Plant to the existing (3) million gallon Thompson Avenue water storage tank. No Explosive activity will be involved in the project. Project Area is not within 150 feet of a BUSTR Site. See Appendix M for attached map.</p>
<p align="center">Site Contamination</p> <p>Resources: HUD Site Contamination US EPA NEPAassist US EPA Envirofacts Ohio Tank Tracking & Environmental Regulations HUD Choosing an Environmentally Safe Site</p>	<p align="center">Yes</p>	<p>The project will include the necessary Engineering Design and Construction associated with improvements to portions of the City’s primary water transmission mains that discharge directly from the City’s Water Treatment Plant to the existing (3) million gallon Thompson Avenue water storage tank. No site excavation is involved in this project, therefore, no toxic or radioactive materials are anticipated as a result of carrying out this project.</p>
<p align="center">Environmental Justice</p> <p>Resources: HUD Environmental Justice US EPA Environmental Justice US EPA EJSCREEN</p>	<p align="center">Yes</p>	<p>The project area and surrounding neighborhood does not suffer from adverse environmental conditions as a result of this project and the proposed action will not create an adverse and disproportionate environmental impacts or aggravate an existing impact.No impact is anticipated for the environmental justice. See Appendix J for attached EJ Maps.</p>

24 CFR Section 58.6 Requirements

Airport Runway Clear Zones and Clear Zones Notification

[24 C.F.R. Part 51.303(a)(3)]

Does the project involve the sale or acquisition of property located within a Civil Airport Runway Clear Zone or a Military Airfield Clear Zone?

No. **Attach Source Document:**

(Project complies with 24 CFR 51.303(a)(3).)

Yes. **Notice must be provided to buyer.** The notice must advise the buyer that the property is in a Runway Clear Zone or Clear Zone, what the implications of such a location are, and that there is a possibility that the property may, at a later date, be acquired by the airport operator. The buyer must sign a statement acknowledging receipt of this information. (for a sample notice, see the [HUD Exchange](#)) **(attach a copy of the signed notice)**

Coastal Barrier Resources Act

[Coastal Barrier Improvement Act of 1990 (16 U.S.C. 3501)]

Is the project located in a [coastal barrier resource area](#)?

No. **Cite or attach Source Document.**

(Proceed with project.)

Yes. Federal assistance may not be used in such an area.

Flood Disaster Protection Act*

[Flood Disaster Protection Act of 1973, as amended (42 U.S.C. 4001-4128)]

Does the project involve acquisition, construction or rehabilitation of structures located in a FEMA-identified Special Flood Hazard Area?

No. **Attach copy of [Flood Insurance Rate Map \(FIRM\)](#)**

Yes. **Attach copy of [Flood Insurance Rate Map \(FIRM\)](#)**

Is the community participating in the National Insurance Program (or has less than one year passed since FEMA notification of Special Flood Hazards)?

Yes. Flood Insurance under the National Flood Insurance Program must be obtained. If HUD assistance is provided as a grant, insurance must be maintained for the economic life of the project and in the amount of the total project cost (or up to the maximum allowable coverage, whichever is less). If HUD assistance is provided as a loan, insurance must be maintained for the term of the loan and in the amount of the loan (or up to the maximum allowable coverage, whichever is less).

(Attach a copy of the flood insurance policy declaration)

No. **Federal assistance may not be used in the Special Flood Hazard Area.**

**Per 24 CFR 58.6(a)(3), this requirement does not apply to State-administered CDBG, HOME, and ESG programs.*

Statement of Process and Status of Environmental Analysis

Instructions:

Provide a brief description of the administrative procedures associated with the construction and presentation of the environmental review record (ERR). List the Responsible Entity, Certifying Officer, the physical location of the ERR, the dates and comment periods associated with any public notices, and contact information for the submission of comments regarding the ERR.

Responsible Entity - Robin Tokorcheck, Mayor's Assistant, City of East Liverpool, 126 West Sixth Street, East Liverpool, Ohio 43920.

Certifying Officer - William Jones, Safety Service Director, City of East Liverpool, 126 West Sixth Street, East Liverpool, Ohio 43920.

Physical Location of the ERR - City of East Liverpool City Building, 126 West Sixth Street, East Liverpool, Ohio 43920.

Dates and Comment Periods Associated with Public Notices - Published (DATE); Comment Period Ended (DATE); Mailed to State DSA on (DATE); Estimated Last Day of Objection Period at State DSA is (DATE); Release Date is (DATE).

Contact Information for the Submission of Comments - Robin Tokorcheck, Mayor's Assistant, at Phone: (330) 385-3381; or at Email: mayor@eastliverpool.com; or at Mailing Address: City of East Liverpool, 126 West Sixth Street, East Liverpool, Ohio 43920.

Monitoring and Enforcement Procedures

Instructions:

Describe any post-review monitoring or enforcement procedures associated with environmental mitigation actions.





List of Site Visits and Important Meetings

Date	Participants	Description
10/10/2024	Lawhon & Associates Staff	Photographs, and Disturbance Assessment
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
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[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
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[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]

Participants in the Review

Name	Title	Organization
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
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**OHCP Environmental Review Record
Field Notes Checklist**

6/99

This checklist is to be completed during the field visit to the project site and is to be attached to the environmental review record (ERR). It will constitute full documentation for some factors in the ERR, and partial documentation for other factors. Some factors on the Checklist require other kinds of documentation (e.g. contacts and correspondence with the State Historic Preservation Office, interviews and correspondence with fire and police, schools, etc.), so those factors are not included in this checklist.

Aggregate all activities that comprise the project (fund with HOME, ESG, CDBG, or any other funds. Provide answers to all questions that can be observed during the field visit. Use spaces provided for any supplemental information and/or for recording any recommended mitigation measures. Use additional sheets if necessary, but key additional information to the relevant questions.

Several different types of maps will be useful on the field visit, such as project plan or plat map, location map showing major features and facilities in the vicinity, USGS topographical map, zoning map, and land use map. Many of the conditions observed can and should be recorded directly on the project plan. Distances to major features and facilities (e.g., schools and fire stations) and a description of the surrounding area are examples. The plan can then be referenced as "source/documentation" on the EA form.

Section 1: General Project Information

Grant Agreement Number(s): 22 OH-20912

Single year or Multi-Year: _____

General or Tier Review: _____

Project Name: Thompson Ave Water Tank Improvements

Activity Name(s) and Grant Agreement Attachment A Number: _____

Location (Street Address, City, Township, County): Thompson Ave, East Liverpool, Ohio 43920

Brief Description of Aggregated Project: Improvements to portions of the City's primary water transmission mains that

discharge directly from the City's Water Treatment Plant to the existing 3 million gallon Thompson Avenue water storage tank.

1. Project is in a location described as : Central City Suburban Infill Urban Development
 In a Developing Rural Area In an Undeveloped Area _____

2. Project is served by: Paved Access Public Water Public Sanitary Sewer Public Storm Sewers
Gas Electric Other Utilities (Specify) _____

- 3. Is the project an addition to existing development? Yes No _____
- 4. Are there existing buildings on the site? Yes No Water Tower _____
- 5. Is the site covered with trees and non-agricultural vegetation? Yes No _____
- 6. Is the site presently being farmed? Yes No _____

Section 2: Noise

- 7. Is the project within 1,000 feet of a major road/highway/freeway? Yes No _____
- 8. Is the project within 3,000 feet of a railroad? Yes No _____
- 9. Is the project within 15 miles of a military airfield? Yes No _____
- 10. Is the project within 5 miles of a civil airport? Yes No Johnston Airport, Wellsville, Ohio _____

If yes was answered to any question 7 - 10, then a noise assessment must be conducted. For airports, use adopted Day/Night Noise Level (DNL) Contours. For projects environments that exceed HUD noise standards, mitigation measures must be conducted.

This project entails the replacement of primary water transmission mains that discharge directly from the City's Water Treatment Plant to the existing 3 million gallon Thompson Avenue water storage tank.

Section 3: Floodplain/Wetlands/Coastal Zones

- 11. Are there drainage, streams, rivers, or coastlines on or near the site? Yes No
- 12. Is the project or access in the floodplain? Yes No _____
(If the project is in the floodplain compliance will require following the 8 step process.)
- 12. Are there ponds, marshes, bogs, or evidence of jurisdictional wetlands on or near the site? Yes No _____
- 13. Are there soils or vegetation characteristic of wetlands on or near the site? Yes No _____

Section 4: Hazards

- 14. Are industrial facilities handling explosive or fire-prone material such as liquid propane, gasoline, or other storage tanks visible from the project site? Yes No _____
If yes, check for compliance with 24 CFR Part 51 C, using HUD Hazards Guidebook
- 15. Is the project within 3,000 feet from the end of a runway at a civil airport? Yes No _____
If yes, check for compliance requirements at 24 CFR Part 51.
- 16. Is the project within 2 ½ miles from the end of a runway at a military airfield? Yes No _____
If yes, check for compliance requirements at 24 CFR Part 51.

17. Is the project near dump or landfill site? Yes No _____

18. Is the project near an industry disposing of chemicals or hazardous wastes? Yes No _____

Section 5: Compatibility with Surrounding Development

19. Is the project compatible with surrounding area in terms of:

	Yes	No		Yes	No
Land Use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Texture, Materials	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Height, Bulk, Mass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Building Type (Low/high Rise)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Building Density	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Building Arrangement	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Population Density	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Light/shadow and Ventilation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Setback	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landscaping	<input checked="" type="checkbox"/>	<input type="checkbox"/>

20. Will the project be unduly influenced by:

	Yes	No		Yes	No
Building Obsolescence	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Transition of Land Uses	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacant Buildings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Transition in Density	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Building Deterioration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Non-conforming Conversions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Postponed Maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Incompatible Land Uses	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Obsolete Public Facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Inadequate off-street Parking	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Buildings Crowding Land	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

Section 6: Site Accessibility, Parks and Recreation, Commercial/Retail, Transportation

21. Is the project accessible to employment, shopping, and services? Yes No _____

22. Are parks and play spaces available on site or near by? Yes No Thompson Park _____

23. Are commercial/retail shopping centers nearby? Yes No _____

24. Is public transportation service available? Yes No _____

Section 7: Physical Site Suitability

25. Slopes are: Not applicable Steep Moderate Slight _____

26. Is there evidence of slope erosion? Yes No
(Such as extensive gullies/small ravines? Bowed retaining walls? Washing away of top-soil and grasses? Tree movement? Fire scars?) _____

27. Is there evidence of unstable slope conditions? Yes No
(Such as trees perpendicular to slope? Vertical cracks at top of slope? Tilted utility poles? Hummocky-undulations on mid to lower slopes?) _____

28. Is there evidence of ground subsidence on the site? Yes No _____

Section 8: Soil Suitability and Erodibility

29. Soils are: Loose, Fine Grained Silts Gravel/sands Clay (Hard/dry) Non-expansive
 Moderately Expansive Highly Expansive Mix of (Check Appropriate Boxes) _____

30. Are there visual indications of filled ground? Yes No Mottled soil, filled basin at tanksite
(Materials loosely piled on ground? Loose vegetation? Earth has graded appearance or topography appears unnatural in grade as related to the vicinity?) _____

31. Are there active rills and gullies on site? Yes No _____

32. Is there off-site drainage to site? Yes No _____

Section 9: Natural Hazards

33. Will the project be affected by:

	Yes	No		Yes	No
Faults, Fractures	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fire Hazards	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cliffs, Bluffs, Crevices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wind/sand Storms	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Slope-failures from Rains	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Poisonous Plants, Insects, Animals	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Unprotected Water Bodies	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Hazardous Terrain Features	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Section 10: Man-made Hazards and Nuisances

34. Will the project be affected by:

	Yes	No		Yes	No
Hazardous Street Conditions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rail Crossing Hazards	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dangerous Intersections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hazards in Vacant Lots	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Inadequate Street Lighting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chemical Tank-car Terminals	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sanitary Landfills or Mining Operations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Trucking Terminals	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Industrial Operations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Hazardous Chemical Storage	<input type="checkbox"/>	<input checked="" type="checkbox"/>
High Pressure Gas Transmission Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Overhead Transmission Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hazardous Cargo Transportation Routes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oil and Gas Wells	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Through Traffic Problems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ASTM Phase I Identified Hazards	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Inadequate Screened Drainage Catchment Structures	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Children's Play Area Located near High Volume Traffic Ways	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Inadequate Separation of Pedestrian And Vehicle Traffic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unscreened Quarries or Other Excavations	<input type="checkbox"/>	<input checked="" type="checkbox"/>

35. Will the project be affected by:

	Yes	No		Yes	No
Gas, Smoke, Fumes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unsightly Land Uses	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Odors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Front-lawn Parking	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Abandoned Vehicles	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Glare from Parking Areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rodent and Vermin Problem	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Billboard Encroachment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Industrial Nuisances	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vacant/boarded up Buildings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other _____	<input type="checkbox"/>	<input type="checkbox"/>

Section 11: Air Quality

36. Are there air pollution generators nearby which would adversely affect the site?

	Yes	No		Yes	No
Heavy industry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Large parking facilities(1,000+)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Incinerators	<input type="checkbox"/>	<input checked="" type="checkbox"/>	≥ Six lanes of traffic	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Power generating plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Indoor black mold	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Oil refineries	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lead	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

Section 12: Unique Natural Features and Areas

- 37. Is the project near natural features such as bluffs and cliffs? Yes No _____
- 38. Is the project near public or private scenic rivers or areas? Yes No _____
- 39. Are there natural resources visible on the site or in the vicinity? Yes No _____

Section 13: Additional Documentation

Participants in the Review

Name	Title	Organization
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
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[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]

**Columbiana County – Thompson Ave Water Tank
Improvement Project**

ATTACHMENTS:

- A: Project Description, Figures, and Photographs
- B: Disturbance Assessment, Tribal Letters, SHPO
- C: FEMA FIRM Map
- D: Wetlands Inventory Map
- E: Sole Source Aquifers Map
- F: Threatened and Endangered Species Resource List
- G: Scenic Rivers of Ohio Map
- H: Farmland/Urbanized Area Map
- I: Airport Distance to Project Area Map
- J: Environmental Justice Maps
- K: Coastal Zone Map
- L: Air Quality Map
- M: Explosive and Flammable Operations Map

APPENDIX A. Project Description, Figures, and Photographs

THOMPSON AVENUE WATER TANK 12" & 16" WATER SUPPLY PIPING REPLACEMENTS

The project will include the necessary Engineering Design and Construction associated with improvements to portions of the City's primary water transmission mains that discharge directly from the City's Water Treatment Plant to the existing (3) million gallon Thompson Avenue water storage tank.

Project Location:

- The portions of the existing water transmission mains to be improved are 12" & 16" in diameter, and begin at River Road; then continue overhead/across the U.S. 30 highway via an existing pipe bridge structure; and then continue vertically up the existing hillside to the Thompson Avenue water storage tank.

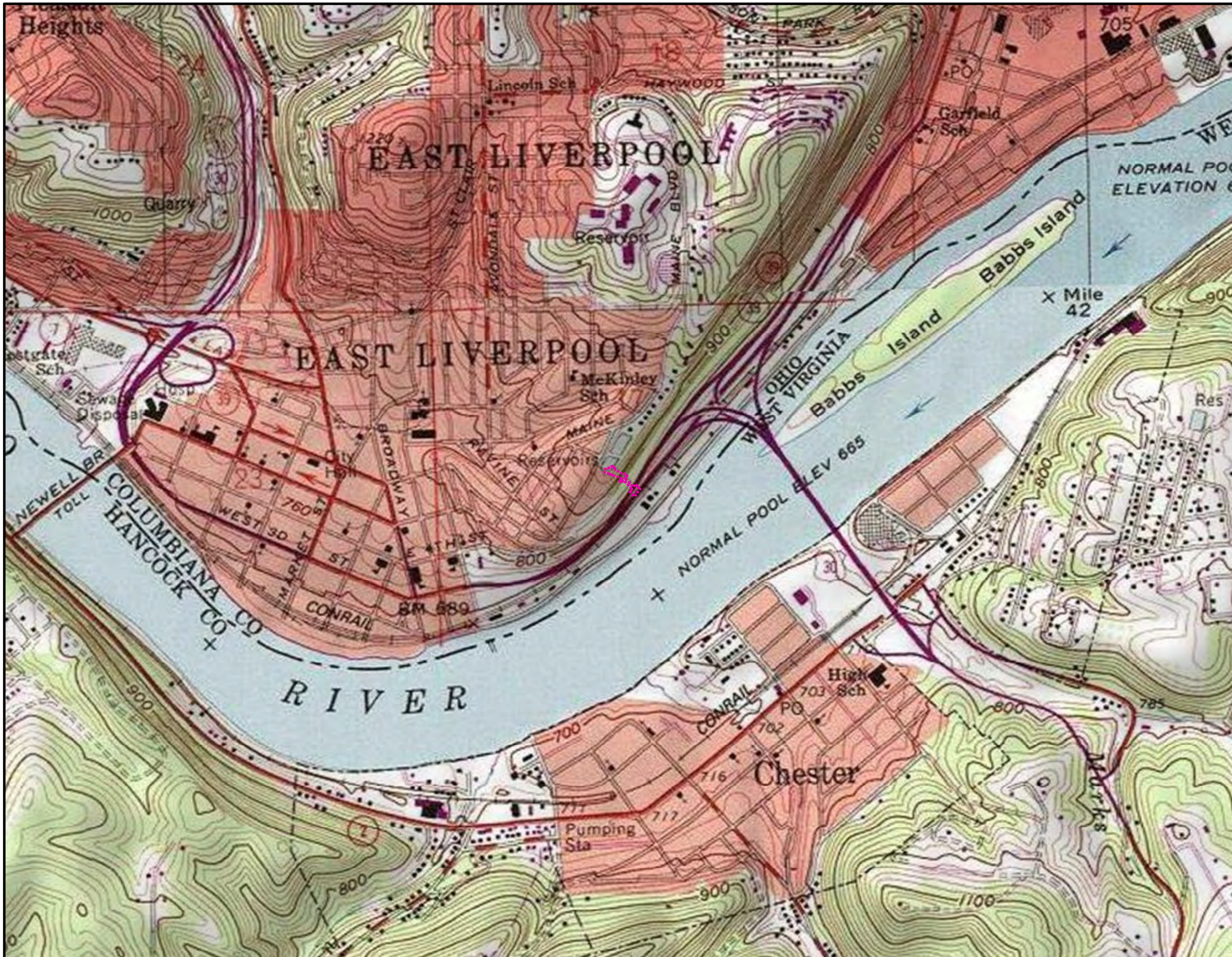
Brief History:

- The portion of the existing 12" & 16" water transmission piping (and former/abandoned 10" tank drain piping) were originally installed in coordination with the U.S. 30 highway construction and corresponding overhead pipe bridge structure in the late 1970's in order to accommodate the piping between River Road and the existing Thompson Avenue Water Tank.
- The water storage tank supplies the East End and the Downtown areas with potable water and fire protection.
- The tank is also used to fill the high tank at Pope Street which serves other portions of the City when needed.
- In coordination with the City of East Liverpool, the Ohio Department of Transportation, District 11, is currently administering construction improvements to the existing pipe bridge structure which currently supports the existing water transmission mains (and abandoned tank drain piping) overhead, across the U.S. 30 highway.
- Over the years, there have been several pipe breaks/repairs; existing bridge/hillside supports, rock anchors, etc. are severely deteriorated and/or missing; existing bridge pipe supports/hangers are severely deteriorated and/or missing; and pipe insulation/heat trace are severely deteriorated and/or missing.

Anticipated Improvements:

The following is a general list of the anticipated improvements that will be focused on during Engineering Design and that will be performed during Construction:

- Removal and replacement of the existing 12" & 16" water transmission main piping.
- Removal of the existing 10" abandoned tank drain pipe.
- Removal & replacement of all piping supports, hangers, and incidentals located on the existing pipe bridge structure.
- Removal & replacement of all piping supports, rock anchors, and incidentals along the existing hillside.
- Removal & replacement of all pipe insulation/heat trace and incidentals.
- Installation of any necessary valves, fittings, incidentals, and miscellaneous items.



Site Location Map

Legend

 Project Area

N


0 500 1,000 2,000
Feet

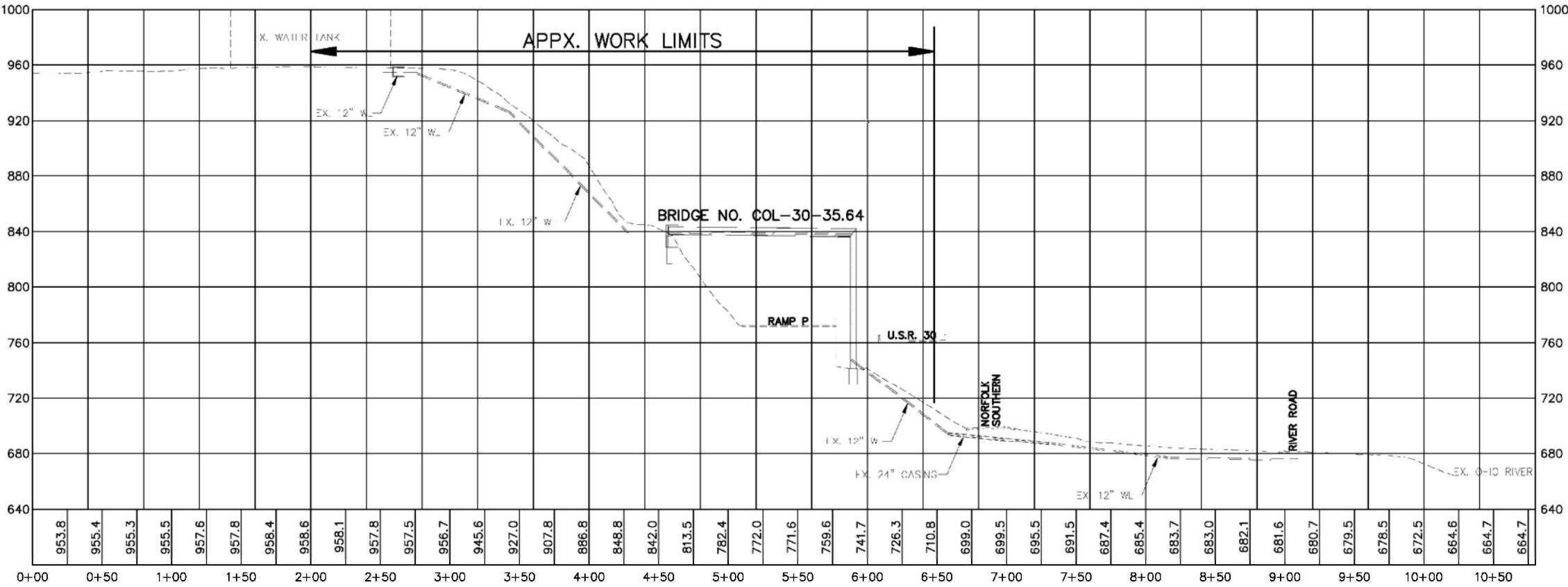
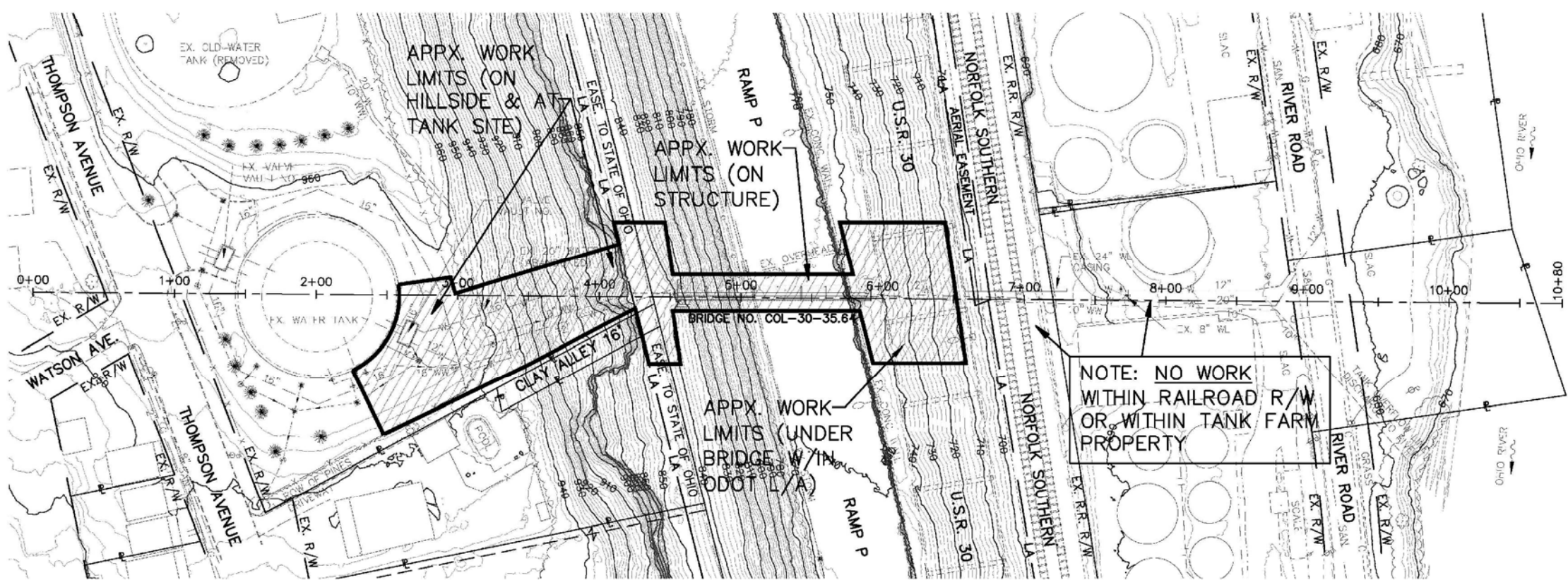
Thompson Ave. Water Tank Improvements

Modern Topographic Map



Lawhon & Associates, Inc.

Date: Oct. 2024	Approved by: AS	L&A No. 24-0358	Figure 2
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PLAN AND PROFILE EXHIBIT

CITY OF EAST LIVERPOOL THOMPSON AVE. TANK



Site Location Map

Thompson Ave. Water Tank Improvements

Project Plans

Date: Oct. 2024 Approved by: AS L&A No. 24-0358 Figure 3

Project Photographs

PROJECT PHOTOGRAPHS



View looking at bottom of hillside from west side of pipe bridge



View looking up hillside toward tank from west side of pipe bridge



View looking up hillside toward tank from west side of pipe bridge



View looking at piping on pipe bridge from west side



View looking at piping across pipe bridge from west side



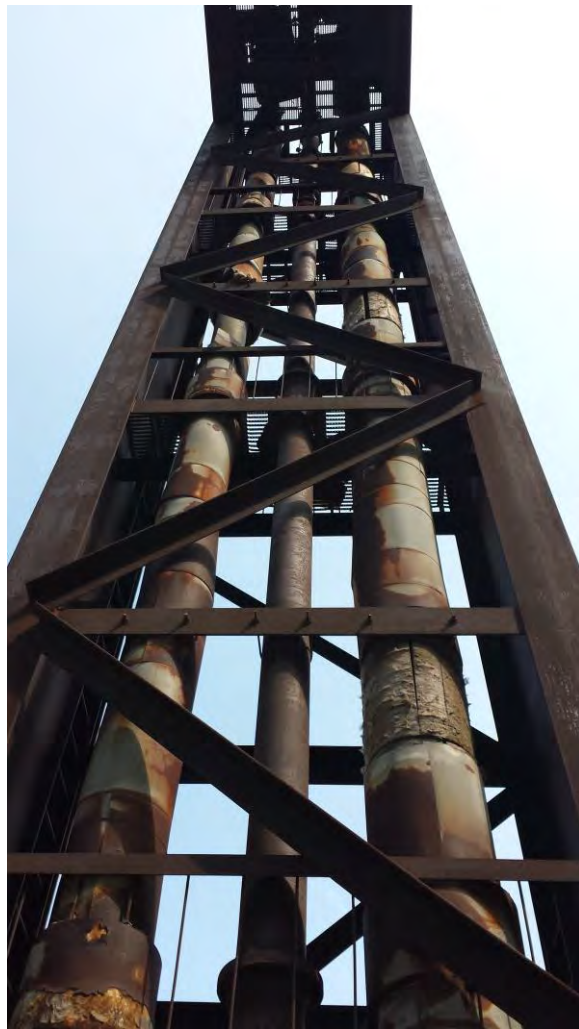
View looking at east side of pipe bridge from River Road



View looking at east side/bottom of pipe bridge & piping



View looking at east side/bottom of pipe bridge & piping



View looking up east side of pipe bridge & piping

APPENDIX B. Disturbance Assessment



In replies, please use
2024-COL-62920

December 4, 2024

Mason Waugh, RPA
Sr. Principal Investigator, Cultural Resources
Lawhon & Associates, Inc.
1441 King Avenue
Columbus, Ohio 43212

Re: Section 106 Review— Thompson Ave Water Tank 12" & 16" Water Transmission Main Replacements Project, East Liverpool, Columbiana County, Ohio

Dear Mr. Waugh:

This letter is in response to your correspondence, received on November 6, 2024, regarding the proposed project. We appreciate the opportunity to comment on this project. The comments of Ohio's State Historic Preservation Office (SHPO) are made pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended, and the associated regulations at 36 CFR Part 800 and Ohio Revised Code 149.53.

The proposed undertaking involves portions of the existing water transmission mains to be replaced are 12" & 16" in diameter, and begin at the bottom of the existing structural steel pipe bridge; continue vertically within the existing pipe bridge structural steel support column; then continue westerly, overhead, and across the U.S. 30 highway via the existing structural steel pipe bridge; and then continue westerly & vertically along the existing rock hillside to the Thompson Avenue water storage tank.

The document, *Disturbance Assessment for the Proposed Thompson Ave Water Tank 12" & 16" Water Transmission Main Replacements Project in the City of East Liverpool, Columbiana County, Ohio (Lawhon & Associates, Inc.)* was submitted to the SHPO office for review. According to the document, the entirety of the project area has been severely disturbed by previous episodes of construction and demolition throughout the latter half of the twentieth century. Conditions within the project area consist of a mix of manicured lawn and sections of gravel surfaces. There is no indication that intact soils are present within the project area. It is the opinion of L&A that the proposed undertaking will result in No Effect on Historic Properties.

Based on the information submitted, the SHPO agrees that the work would not affect any historic properties. No further coordination is necessary unless the project changes or new or additional historic properties are discovered during the implementation of the project. In such a situation, the SHPO should be contacted as per 36 CFR 800.13. If you have any questions, please contact me at via email at dgagliano@ohiohistory.org. Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink that reads "Dawn Walter Gagliano".

Dawn Walter Gagliano, Project Reviews Manager
Resource Protection and Review
State Historic Preservation Office

RPR Ser. No. 1105647



October 11, 2024

Mr. Dallis Dawson, P.E.
Dallis Dawson & Associates
48745 Calcutta Smith Ferry Road
East Liverpool, Ohio 43920

Re: Disturbance Assessment for the Proposed Thompson Ave Water Tank 12" & 16" Water Transmission Main Replacements Project in the City of East Liverpool, Columbiana County, Ohio

Mr. Dawson,

In October of 2024, Lawhon & Associates, Inc. (L&A), under contract with Dallis Dawson & Associates, completed a disturbance assessment for the proposed Thompson Ave. Water Tank 12" & 16" Water Transmission Main Replacements Project in the City of East Liverpool, Columbiana County, Ohio. The proposed undertaking will be using U.S. Department of Housing and Urban Development (HUD) funding. Under HUD regulation 24 CFR 58.4, the City of East Liverpool has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties.

The area of potential effects (APE) for the proposed undertaking is confined to the construction footprint for the project. The project area is an irregular polygon shape, encompassing an area of 0.6 acres (0.24 hectares) directly adjacent to the east of Thompson Ave. Specifically, the portions of the existing water transmission mains to be replaced are 12" & 16" in diameter, and begin at the bottom of the existing structural steel pipe bridge (at the east side, structural steel support column); continue vertically within the existing pipe bridge structural steel support column; then continue westerly, overhead, and across the U.S. 30 highway via the existing structural steel pipe bridge; and then continue westerly & vertically along the existing rock hillside to the Thompson Avenue water storage tank. All work will be performed within the existing ODOT Limited Access (L/A) and within the City of East Liverpool tank property. Within this area, the following work items are planned for construction:

- Removal and replacement of the existing 12" & 16" water transmission main piping.
- Removal of the existing 10" abandoned tank drain pipe.
- Removal & replacement of all piping supports, hangers, and incidentals located on the existing pipe bridge structure.
- Removal & replacement of all piping supports, rock anchors, and incidentals along the existing hillside.

- Removal & replacement of all pipe insulation/heat trace and incidentals. Installation of any necessary valves, fittings, incidentals, and miscellaneous items.

The project crosses U.S. Route 30, following the existing pipelines to the east. Residential housing encompasses the area around the project to the south and west (Appendix A, Figures 1-3; Appendix B, Photos 1-9). The area directly adjacent to the existing water tower has been previously disturbed by the construction of said water tower and the affiliated utilities, as well as prior disturbance from the construction and filling of water reservoirs. This area is currently a mix of gravel roads and manicured grass/shrub conditions. The rest of the project area encompasses a steep cliff face and active highways with a railroad and industrial development immediately adjacent to the easterly limits of the project area. The cliff face is currently occupied by trees and vegetation.

L&A conducted the disturbance assessment for this project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 2016, 54 U.S.C. § 306108 and with Ohio Revised Code § 149.53. The Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation (NPS 1998) are the standards and guidelines used to develop survey methods. This document meets the standards established by the Advisory Council on Historic Preservation and the revised Section 106 (36 CFR Part 800) regulations that went into effect on August 5, 2004. The federal standards and guidelines are supplemented by the procedures presented by the State Historic Preservation Office (OHC 2022; OHC 2014). The goals of this disturbance assessment are to determine if cultural resources exist within the project area and if any identified resources are eligible for inclusion in the National Register of Historic Places (NRHP).

The project area resides in the Muskingum- Pittsburgh Plateau Region of the Allegheny Plateau Province of Ohio. Topography across this region is characterized as dissected plateau having broad major valleys that contain outwash terraces and tributaries with lacustrine terraces. Elevations range from 300–600 feet. The geology of the region consists primarily of Mississippian- and Pennsylvanian-age siltstones, shales, sandstones and economically important coals and clay stones over Wisconsinan-age sand, gravel and lacustrine silt (Brockman 1998). There are three soils present in the project area: Urban land soils (Ur) with 0 to 15 percent slopes, Hazelton-Westmoreland soils (HgF) with 40 to 70 percent slopes and Udorthents soils (Ua) with 2 to 25 percent slopes (USDA NRCS 2024).

Field work for this assessment was conducted on October 10, 2024, and the literature review was completed on October 14, 2024. L&A staff included Mason Waugh, RPA, who served as the Principal Investigator and Project Manager, and Mason Barnett, who served as field archaeologist.

Mason Waugh is a Registered Professional Archaeologist (RPA), He joined L&A in 2020 and now serves as Senior Principal Investigator within L&A's Cultural Resource Management (CRM) division. Mr. Waugh has over 5 years of experience completing fieldwork in numerous Phase I, II and III cultural resource investigations throughout Ohio and six additional Midwest states, giving him significant capability regarding the inner workings of Historic Preservation and Cultural Resource Management Laws, a proven track record of successful completion of all projects and broad experience with a variety of sites. He has assisted in the excavation and/or report preparation for over 200 CRM publications and has authored over sixty CRM publications. Mason

Barnett has two years' experience conducting surveys across the Midwest and has a BA in Anthropology from Ohio University.

LITERATURE REVIEW

The literature review study radius is 2 km (1.2 mi) from each exterior corner of the project area. This size is usually adequate to provide the necessary contextual information regarding previously identified cultural resources and historical information on the project area. The report author examined the following sources from the Ohio State Historic Preservation Office (SHPO), the State Library of Ohio, and various online resources:

- Mills' (1914) Archaeological Atlas of Ohio
- Ohio SHPO GIS database
- Ohio Archaeological Inventory (OAI) forms
- Contract Cultural Resource Management reports
- Ohio Historic Inventory (OHI) forms
- National Historic Landmark listings
- NRHP files, nomination form files, and Determination of Eligibility (DOE) files
- Ohio Historic Bridge Inventory forms
- Ohio Genealogical Society (OGS) Cemeteries
- USGS 7.5' and 15' series topographic maps, historical aerial photographs, and Columbiana County historic atlases

The Archaeological Atlas of Ohio (Mills 1914) does not indicate any precontact resources within or immediately adjacent to the project area. The closest resource listed is a petroglyph about 2.5 miles to the northeast. The types of resources recorded by Mills typically represent Woodland-period sites, such as enclosures, mounds, and villages. Burials noted by Mills could be associated with any period, but in general, Mills was probably not recording very many sites associated with pre-Woodland occupations. Therefore, Mills' atlas has limited use in assessing the potential for precontact sites to occur within a given area, although it is useful in understanding the large-scale distribution of monumental precontact architecture and major habitation sites. However, the relative density of resources on the map pages in Mill's atlas can indicate the likelihood of encountering precontact resources, as Woodland people exploited many of the same environmental niches and used similar landforms for habitations as their Archaic predecessors.

The Ohio SHPO online GIS indicates that there are no previously recorded archaeological sites within or adjacent to the project area. There are, however, 9 recorded sites within the 2 km literature review study radius (Figure 4; Table 1). These sites will not be impacted by the proposed undertaking.

Table 1. OAI s within the Study Radius

OAI #	Name	Temp. Affiliation	Site Area
CO0077	Ceramic Hotel refuse/dump site	1880-1899	2 sq. meter(s)
CO0081	Phoenix Pottery	1850-1929	--
CO0082	Vodrey Pottery	1850-1929	--
CO0083	Riverside Knob Company	1850-1929	--
CO0086	Babb's Island & East Liverpool Petroglyphs - Carnegie Museum #s 33 CO 3 & 54	Unassigned Prehistoric	--
CO0142	Goodwin-Baggott Pottery Site	1830-1949	--
CO0188	Cherry Allen Site	Late Archaic	8400 sq. meter(s)
CO0189	Union Street Village Site	Late Prehistoric	100 sq. meter(s)
CO0875	Mansion Pottery	1830-1929, 19th Century	1210 sq. meter(s)

A review of the contract CRM reports showed that there have been no previously conducted surveys within or adjacent to the project area (Figure 4). There are two previous archaeological excavations reported within the 2 km study radius. Archaeologists from the Ohio Department of Transportation performed a Phase III excavation of 4.5 acres in 1995 (Baker 1995). This project studied five separate areas along the southwestern portion of East Liverpool, Ohio. Gundy and Casselberry (2005) reported on excavations at the Mansion Pottery in East Liverpool in an article included in the *Ceramics in America* series (Figure 4).

There are no previously recorded OHI resources within or immediately adjacent to the project area. However, there are 136 OHI resources (Appendix C) and 8 DOE files (Table 2) within the study radius (Figure 5). There are 3 NRHP districts (Table 3) and 18 NRHP listings (Table 4) within the 2 km study radius (Figure 4). All three districts are more than 0.5 km away from the project area. None of the NRHP, DOE, or OHI resources within the study radius will be impacted by the proposed undertaking.

Table 2. DOE files within the Study Radius

OHPO ID/OHI #	Resource Name	Eligible Criterion
--	103 Boyce Street	A, C
--	104 Boyce Street	A, C

OHPO ID/OHI #	Resource Name	Eligible Criterion
--	124 East 5th St	A, B, C
--	419 Market Avenue	A, C
COL0028418	119 East 5th Street	A, C
--	509 Broadway St	C
--	517 Broadway St	C
--	Rehab - 249 Pennsylvania Ave	C

Table 3. NRHP Districts within the Study Radius

Reference #	Name	Eligible Criterion	Number of Contributing Resources
85003508	Diamond Historic District	A, C	8
85003510	East Fifth Street Historic District	A, C	15
01000591	East Liverpool Downtown Historic District (Boundary Increase)	A, C	84

Table 4. NRHP Listings within the Study Radius

Reference #	Name	Criterion	Year
01000591	East Liverpool Downtown Historic District	A, C	c1850-1949
71000636	East Liverpool Pottery	A	1844
71000637	Thompson, Cassius Clark, House	B, C	1876
76001384	East Liverpool Post Office	C	1908
80002963	Carnegie Public Library	C	1900
80002964	Ikirt House	B, C	1880
85003508	Diamond Historic District	A, C	c1880-1920
85003509	YMCA	A, C	1913
85003510	East Fifth Street Historic District	A, C	c1880-1925

Reference #	Name	Criterion	Year
85003511	City Hall	A, C	1934
85003512	Elks Club	A, C	1916
85003513	Laughlin, Homer, House	A, B, C	1882
85003514	Odd Fellows Temple	A, C	1907
85003515	Godwin--Knowles House	A	1890
85003516	Patterson, Mary A., Memorial	A, C	1924
85003517	Potters Savings and Loan	A, C	1904
85003518	Potters National Bank	A, C	1882
86001718	Travelers Hotel	A	1908

There are 2 OGS cemeteries within the study radius: Fifth Street-Skelton Park Cemetery and Pickals Cemetery. Neither cemetery is in the project vicinity, and they will not be impacted by the proposed undertaking (Figure 5). There are no nomination form files or Ohio Historic Bridge Inventory forms recorded within or directly adjacent to the project area nor within the 2 km literature review study radius.

Examination of available historical maps dating to the early twentieth century allows for a reconstruction of landscape history and can identify the potential for historical sites within a project area. The 1902 Map of Columbiana County (Figure 5) shows the project area was a reservoir with no buildings present on the parcel.

United States Geological Survey (USGS) topographic maps do not record landownership; however, they do offer a glimpse into the natural and built environment of the area through the early- and mid-twentieth century. The 1937 Wellsville, OH 15' Series Topographic Map (Figure 6) shows the project area still designated as a reservoir. There are still no structures present within the project boundaries. The 1960 East Liverpool South 7.5' Series Topographic Map (Figure 7) once again shows the project area as a reservoir with no change. This parcel has been used as water reservoirs and towers for the entirety of the twentieth and twenty-first centuries.

Aerial photographs depicting the project area (NETR 2024; Google Earth) are available from as early as 1952. At that time, the entirety of the project area was occupied by a man-made reservoir. No documented buildings or other structures are found within the project boundaries. The area was surrounded by single family suburban dwellings. Between 1971 and 1982, the reservoir was replaced with a circular water tower, just north of the project area. The road south of the tower was expanded into a highway during this time as well. By 2006, a second tower was constructed adjacent to the south of the previous tower. In 2007, the original tower was demolished, leaving only the tower present in the project area standing. The area has remained relatively unchanged

to the present day. The area adjacent to the tower has been upkept with manicured grass and the wooded areas surrounding the tower have been altered slightly.

ARCHAEOLOGICAL EVALUATION

The crew used a combination of subsurface excavations and visual inspection to identify any potential cultural resources and record surface conditions. Most of the project area was determined to be within severely disturbed or steeply sloped conditions precluding subsurface testing (Figure 8; Photos 1-9). A total of 3 shovel test probes were plotted in the manicured grass directly adjacent to the water tower, documenting the presence of gravel material from when the reservoirs were filled (Table 5). The rest of the ground is covered by gravel surfaces. The project area has undergone multiple episodes of construction and demolition that have resulted in the removal of any intact soil deposits. Based on the evidence of development-related disturbance from historical aerial photography, the topography, and the fill material in the shovel probes, it is L&A's opinion that there is no potential for any archaeological resources to be present in the project area.

Table 5. Thompson Ave. Water Tank Improvements Subsurface Testing

STU #	Provenience/ Excavator	Width (cm)	Soil Type	Strata	Cultural Resources	Comments
1 (Probe)	0N 0W / MB	30x30	Urban land (Ur, 0- 15% slopes)	I: 0-5 cmbs, fill soil II: 5-10 cmbs mottled soil	Negative	I: Fill soils II: Severely mottled
2 (Probe)	0N 50W / MB	30x30	Urban land (Ur, 0- 15% slopes)	I: 0-7 cmbs, fill soil II: 7-12 cmbs mottled soil	Negative	I: Fill soils II: Severely mottled
3 (Probe)	50N 50W / MB	30x30	Urban land (Ur, 0- 15% slopes)	I: 0-7 cmbs, fill soil II: 6-11 cmbs mottled soil	Negative	I: Fill soils II: Severely mottled

SUMMARY AND CONCLUSIONS

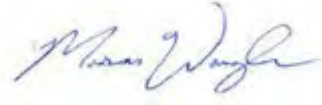
In October of 2024, L&A completed a disturbance assessment for the proposed Thompson Ave. Water Tank 12" & 16" Water Transmission Main Replacements Project in the City of East Liverpool, Columbiana County, Ohio. The entirety of the project area has been severely disturbed by previous episodes of construction and demolition throughout the latter half of the twentieth century. Conditions within the project area consist of a mix of manicured lawn and sections of gravel surfaces. There is no indication that intact soils are present within the project area. It is the opinion of L&A that the proposed undertaking will result in No Effect on Historic Properties, as

there are none present within the APE. No further studies are recommended in connection with the proposed undertaking.

Sincerely,



Mason G. Barnett
Archaeologist



Mason R. Waugh, RPA
Sr. Principal Investigator

REFERENCES

Baker, S. W.

1995 *Col-US30/East Liverpool, Ohio Archaeological Data Recovery Project: Summary and Interpretation of Prehistoric Components. (Col-30-35.29 -- P.F. 541)*. Prepared by the Ohio Department of Transportation, Columbus. On file with Ohio Historic Preservation Office, Columbus.

Brockman, C. S.

1998 *Physiographic Regions of Ohio*. Ohio Department of Natural Resources, Division of Geological Survey, Columbus.

Gundy, B. J., and D. Cassellberry

2005 The Mansion Pottery (33 CO 875 - East Liverpool, Columbiana County, Ohio). in *Ceramics in America 2005*. The Chipstone Foundation, Milwaukee, Wisconsin.

Mills, W. C.

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National Environmental Title Research (NETR)

2024 Historic Aerials. <http://www.historicaerials.com/>, accessed October 14, 2024.

Ohio History Connection (OHC)

2022 *Archaeology Guidelines*. Ohio Historic Preservation Office, Columbus.

2014 *Guidelines for Conducting History/Architecture Surveys in Ohio*. Ohio Historic Preservation Office, Columbus.

United States Department of Agriculture, Natural Resources Conservation Service

2024 Web Soil Survey. <http://websoilsurvey.nrcs.usda.gov/>, accessed October 14, 2024.

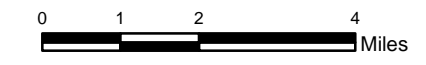
APPENDIX B-1. FIGURES



Site Location Map

Legend

 Project Area



Thompson Ave. Water Tank Improvements

County Map with an Overview of OH



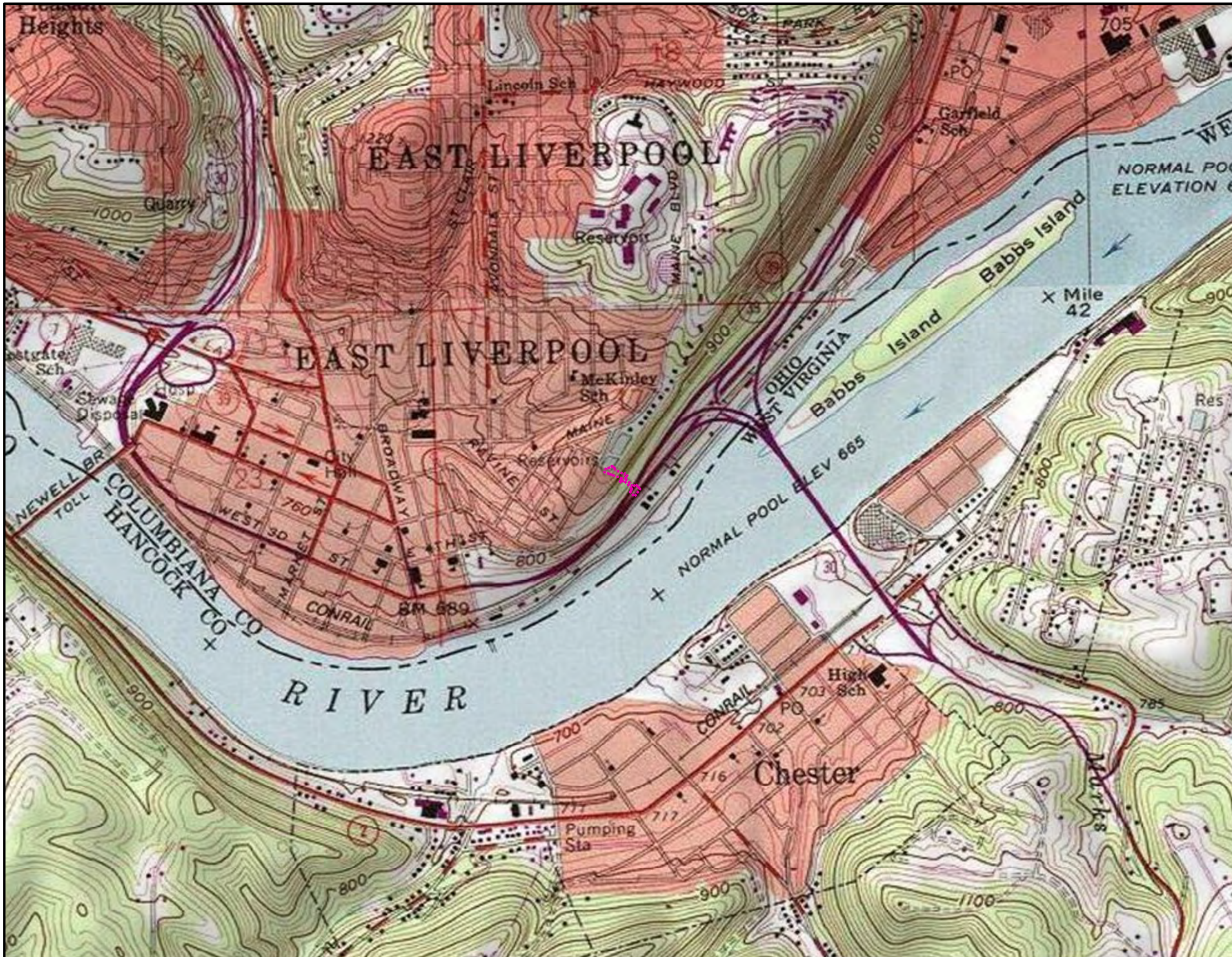
Lawton & Associates, Inc.

Date: Oct. 2024	Approved by: AS	L&A No. 24-0358	Figure 1
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File Name: 01-County.mxd

Edited: 10/25/2024 By: afraley



Site Location Map

Legend

- Project Area

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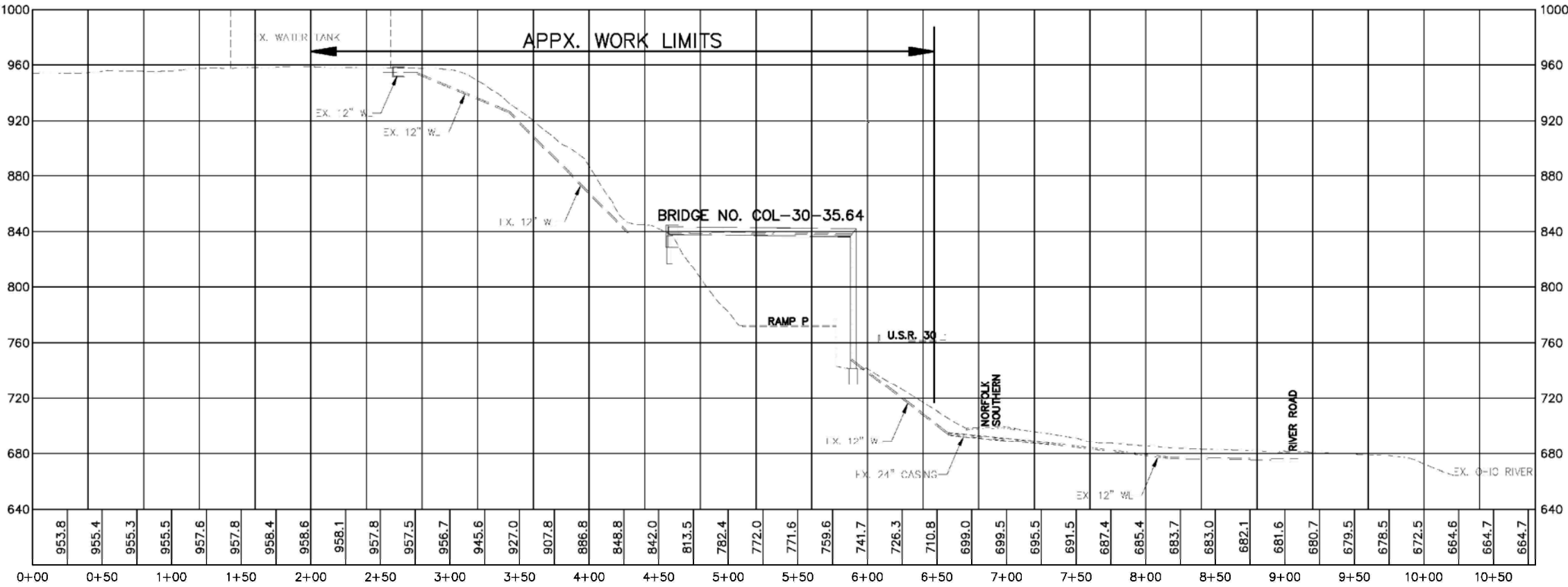
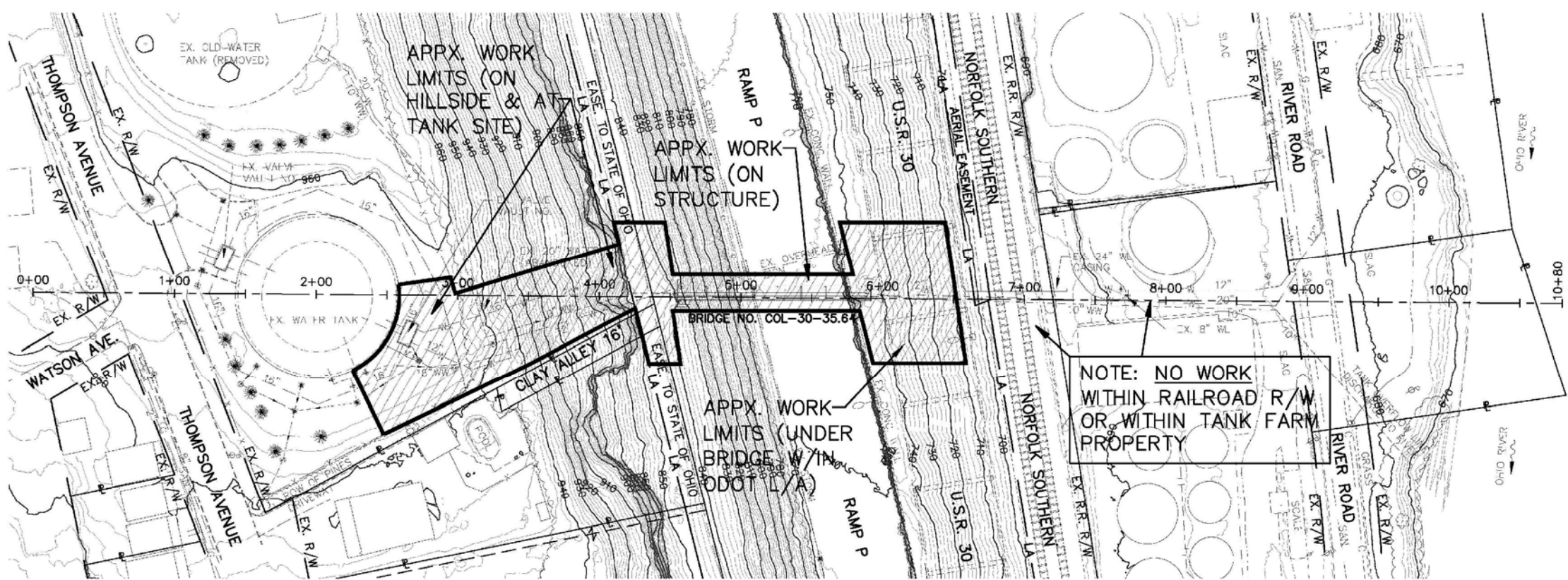
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Thompson Ave. Water Tank Improvements

Modern Topographic Map

Lawhon & Associates, Inc.

Date: Oct. 2024	Approved by: AS	L&A No. 24-0358	Figure 2
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DATE: 9/24
 DATE: 9/24
 DATE: 9/24

PLAN AND PROFILE
 EXHIBIT

CITY OF EAST LIVERPOOL
 THOMPSON AVE. TANK



Site Location Map

Thompson Ave. Water Tank Improvements











Project Plans

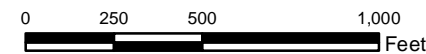
Date: Oct. 2024
 Approved by: AS
 L&A No. 24-0358
 Figure 3



Site Location Map

Legend

-  Project Area
-  SHPO Determinations of Eligibility
-  Archaeological Inventory
-  Federal Tax Credit Projects
-  National Register Listings
-  OGS Cemeteries
-  Ohio Historic Inventory
-  Previously Surveyed Areas
-  National Register District Boundaries
-  OAI Boundaries



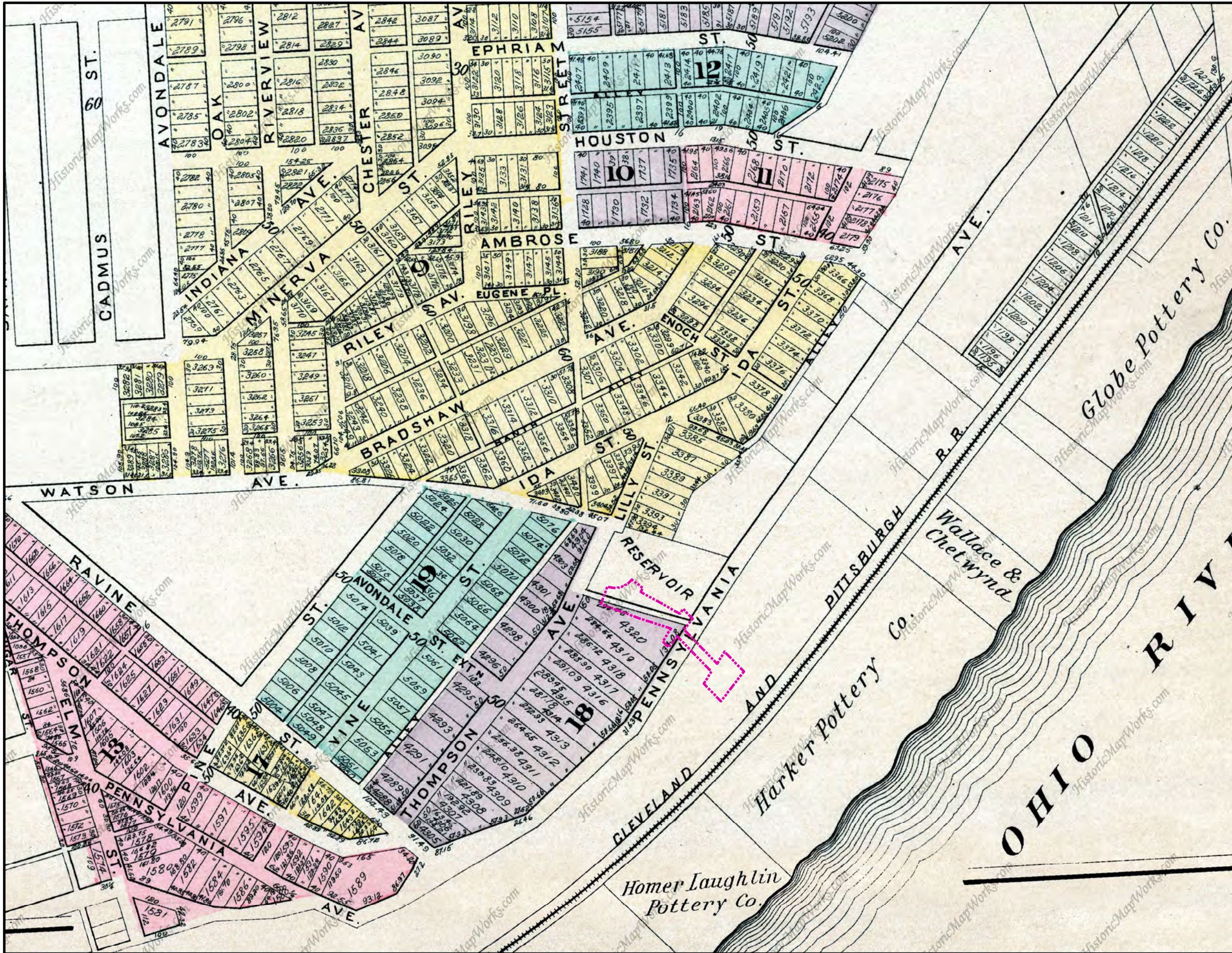
Thompson Ave. Water Tank Improvements

SHPO Map



Lawton & Associates, Inc.

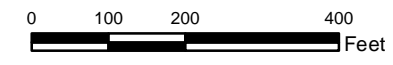
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Site Location Map

Legend

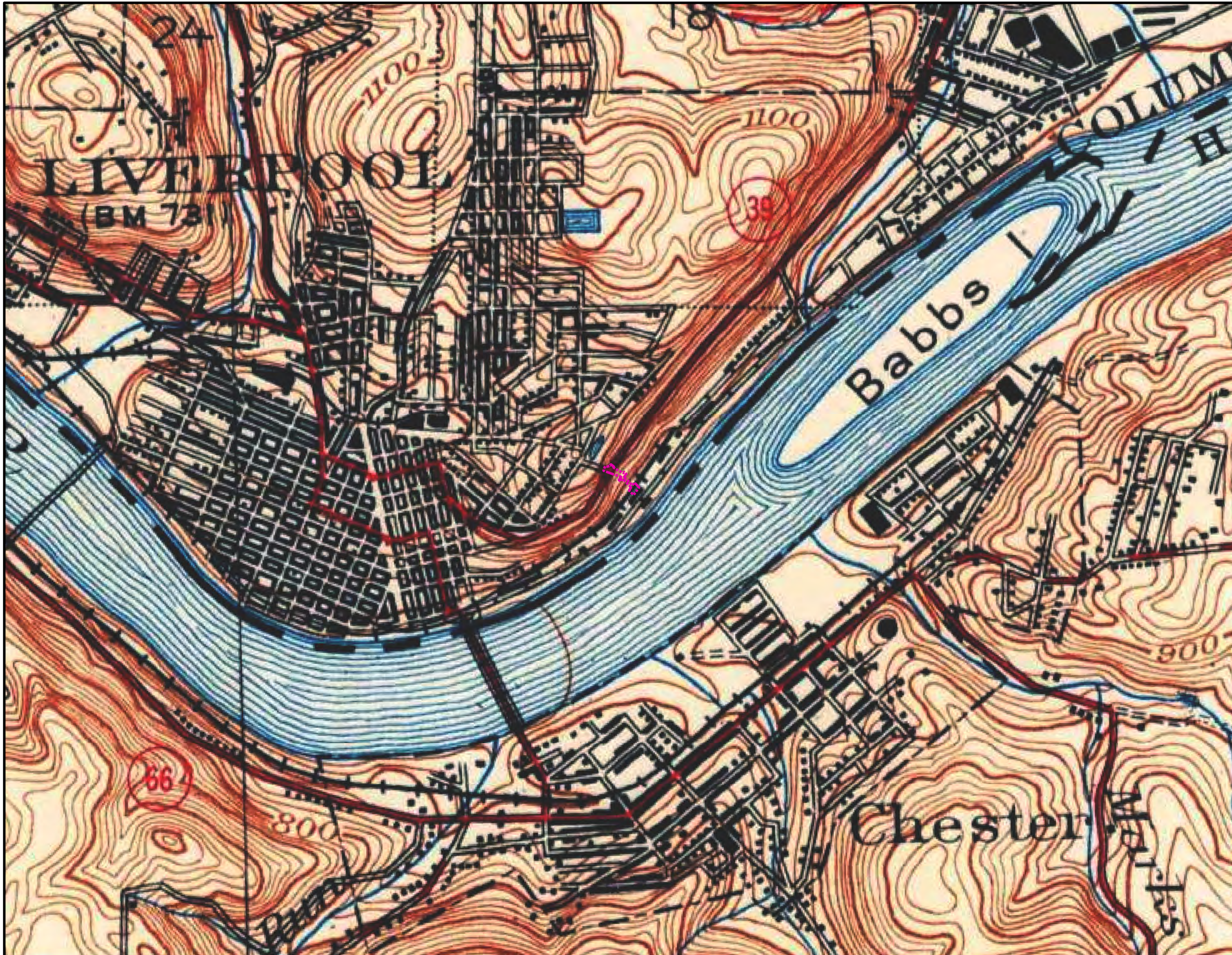
- Project Area



Thompson Ave. Water Tank Improvements
 1902 Atlas of Columbiana County, East Liverpool



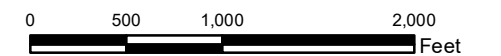
Date: Oct. 2024	Approved by: AS	L&A No. 24-0358	Figure 5
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Site Location Map

Legend

 Project Area



Thompson Ave. Water Tank Improvements

1937 Wellsville, OH 15'
Topographic Map



Lawhon & Associates, Inc.

Date: Oct. 2024	Approved by: AS	L&A No. 24-0358	Figure 6
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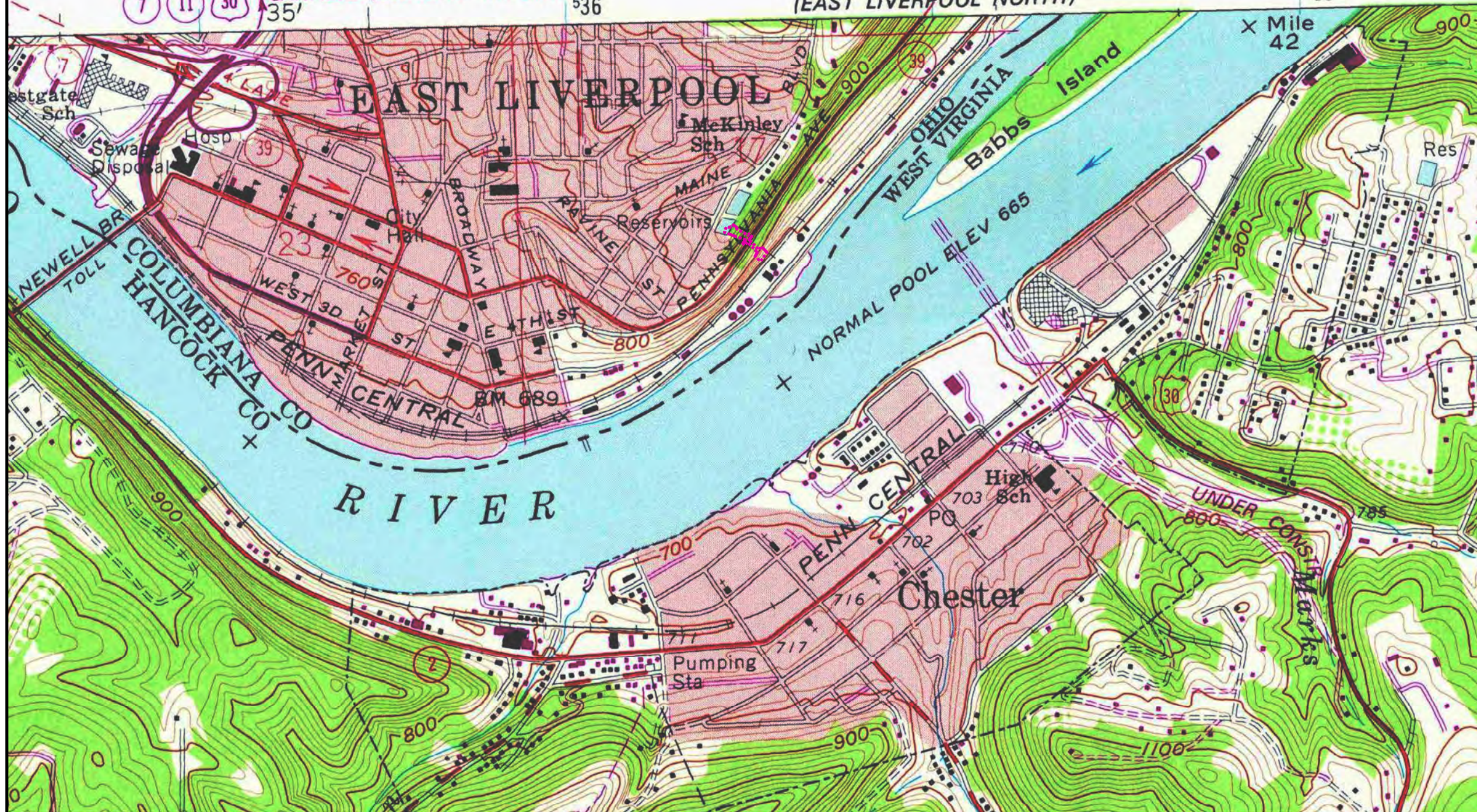
STATE OF WEST VIRGINIA
 REPRESENTED BY THE
 STATE OF WEST VIRGINIA GEOLOGICAL SURVEY
 AND OTHER STATE AGENCIES

STATE OF
 DEPARTMENT OF TRANSPORTATION
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF GEOLOGY

7 11 30
 CANFIELD (VIA OHIO 11) 33 MI.
 35'

4865 II NE GLASGOW, PA. 4.3 MI.
 (EAST LIVERPOOL NORTH)

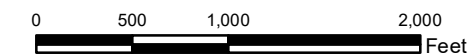
538



Site Location Map

Legend

Project Area



Thompson Ave. Water
 Tank Improvements

1960 East Liverpool South,
 OH 7.5' Topographic Map



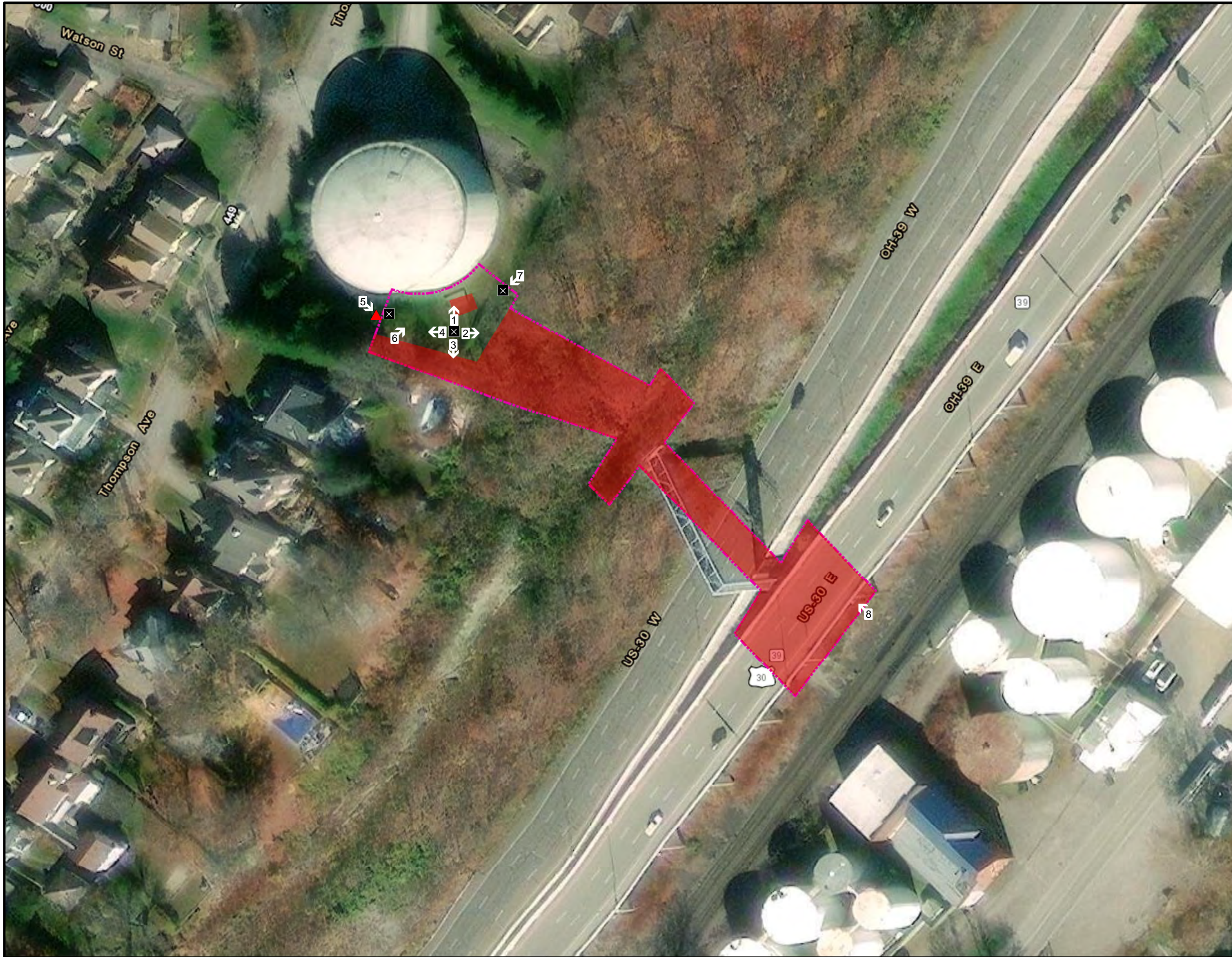
Lawton & Associates, Inc.

Date:
 Oct. 2024

Approved by:
 AS

L&A No.
 24-0358

Figure
 7



Site Location Map

Legend

- Project Area
- Datum
- Disturbed Shovel Probe
- Visually Inspected Area
- Photo Location

N

0 25 50 100 150
Feet

Thompson Ave. Water Tank Improvements

Fieldwork Schematic



Lawhon & Associates, Inc.

Date: Oct. 2024	Approved by: AS	L&A No. 24-0358	Figure 8
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APPENDIX B-2. PHOTOGRAPHS



Photo 1. View from the center of the project area facing north



Photo 2. View from the center of the project area facing east



Photo 3. View from the center of the project area facing south



Photo 4. View from the center of the project area facing west



Photo 5. View from the western edge of the project area facing east



Photo 6. View from south of the water tower facing northeast



Photo 7. View from north of the project area facing southwest



Photo 8. View from the eastern edge of the project facing west up the cliff face



Photo 9. Typical Disturbed Shovel Probe

APPENDIX B-3. TRIBAL LETTERS & OHI RESOURCES WITHIN THE STUDY RADIUS



City Of
EAST LIVERPOOL

Robert J. Smith, Mayor

OHIO, U.S.A.

43920

Phone (330) 385-3381

Fax (330) 385-3955

October 7, 2024

Geoffrey Standing Bear, Principal Chief
Osage Nation
PO Box 779
Pawhuska, OK 74056

Re: Thompson Avenue Water Tank Improvement Project, East Liverpool, Columbiana County, Ohio
HUD Program

Dear Principal Chief Standing Bear,

The City of East Liverpool is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under HUD regulation 24 CFR 58.4, the City of East Liverpool has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

The City of East Liverpool will conduct a review of this project to comply with Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR Part 800. We would like to invite you to be a consulting party in this review to help identify historic properties in the project area that may have religious and cultural significance to your tribe, and if such properties exist, to help assess how the project might affect them. If the project might have an adverse effect, we would like to discuss possible ways to avoid, minimize or mitigate potential adverse effects.

The Ohio State Historic Preservation Office GIS database does not indicate any resources within or adjacent to the proposed project. Historic aerials photographs show that the project area has been disturbed by modern development. In the 1970s the northwestern portion of the project area was a water detention basin. By the 1980s the detention basin was filled in and a water tower was built over it. Construction of U.S. 30 has also impacted portions of the project area. The remainder of the project area is in steeply sloped soil conditions.

To meet project timeframes, if you would like to be a consulting party on this project, can you please let us know of your interest within 30 days? If you have any initial concerns with impacts of the project on religious or cultural properties, can you please note them in your response?

Enclosed is a map that shows the project area and, if applicable, an additional area of potential indirect effects. More information on the Section 106 review process is available at <http://www.onecpd.info/environmental-review/historic-preservation/>.

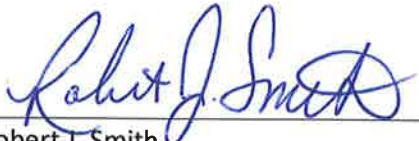
The project consists of the following:

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HUD's process for tribal consultation under Section 106 is described in a Notice available at <https://www.onecpd.info/resource/2448/notice-cpd-12-006-tribal-consultation-under-24-cfr-part-58>.

If you do not wish to consult on this project, can you please inform us? If you do wish to consult, can you please include in your reply the name and contact information for the tribe's principal representative in the consultation? Thank you very much. We value your assistance and look forward to consulting further if there are historic properties of religious and cultural significance to your tribe that may be affected by this project.

Sincerely,



Robert J. Smith

Mayor, City of East Liverpool
126 West Sixth Street, East Liverpool, Ohio 43920
Phone: (330) 385-3381
Email: mayor@eastliverpool.com

cc:

Andrea A. Hunter
Director and THPO
627 Grandview Avenue, Pawhuska, OK 74056
(918) 287-5328
ahunter@osagenation-nsn.gov

Mason Waugh, RPA
Sr. Principal Investigator, Cultural Resources
Lawhon & Associates, Inc.



City Of
EAST LIVERPOOL

Robert J. Smith, Mayor

OHIO, U.S.A.

43920

Phone (330) 385-3381

Fax (330) 385-3955

October 7, 2024

Glenna Wallace, Chief
Eastern Shawnee Tribe of Oklahoma
PO Box 350
Seneca, MO 64865

Re: Thompson Avenue Water Tank Improvement Project, East Liverpool, Columbiana County, Ohio
HUD Program

Dear Chief Wallace,

The City of East Liverpool is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under HUD regulation 24 CFR 58.4, the City of East Liverpool has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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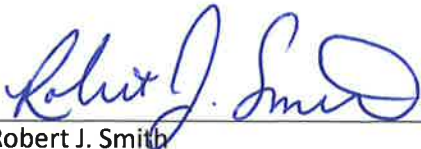
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Sincerely,



Robert J. Smith
Mayor, City of East Liverpool
126 West Sixth Street, East Liverpool, Ohio 43920
Phone: (330) 385-3381
Email: mayor@eastliverpool.com

cc:

Paul Barton
THPO/Director of Culture Preservation Programs/NAGPRA
70500 E. 128 Road, Wyandotte, OK 74370-3148
(918) 238-5151 ext. 1833
PBarton@estoo.net

Mason Waugh, RPA
Sr. Principal Investigator, Cultural Resources
Lawhon & Associates, Inc.



City Of EAST LIVERPOOL

Robert J. Smith, Mayor

OHIO, U.S.A.

43920

Phone (330) 385-3381

Fax (330) 385-3955

October 7, 2024

William Fisher, Chief
Seneca-Cayuga Nation
PO Box 453220
Grove, OK 74345-3220

Re: Thompson Avenue Water Tank Improvement Project, East Liverpool, Columbiana County, Ohio
HUD Program

Dear Chief Fisher,

The City of East Liverpool is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under HUD regulation 24 CFR 58.4, the City of East Liverpool has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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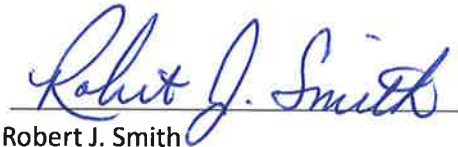
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Sincerely,



Robert J. Smith
Mayor, City of East Liverpool
126 West Sixth Street, East Liverpool, Ohio 43920
Phone: (330) 385-3381
Email: mayor@eastliverpool.com

cc:

William Tarrant
THPO
PO Box 453220, Grove, OK 74345
(918) 787 – 5452 ext. 344
wtarrant@sctribe.com

Mason Waugh, RPA
Sr. Principal Investigator, Cultural Resources
Lawhon & Associates, Inc.
P: 614.481.8600 ext.124 | C: 614.551.0704
mwaugh@lawhon-assoc.com



City Of
EAST LIVERPOOL

Robert J. Smith, Mayor

OHIO, U.S.A.

43920

Phone (330) 385-3381

Fax (330) 385-3955

October 7, 2024

Douglas Lankford, Chief
Miami Tribe of Oklahoma
PO Box 1326
Miami, OK 74355

Re: Thompson Avenue Water Tank Improvement Project, East Liverpool, Columbiana County, Ohio
HUD Program

Dear Chief Lankford,

The City of East Liverpool is considering funding the project listed above with federal funds from the U.S. Department of Housing and Urban Development (HUD). Under HUD regulation 24 CFR 58.4, the City of East Liverpool has assumed HUD's environmental review responsibilities for the project, including tribal consultation related to historic properties. Historic properties include archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places and landscapes, plant and animal communities, and buildings and structures with significant tribal association.

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Robert J. Smith

Mayor, City of East Liverpool
126 West Sixth Street, East Liverpool, Ohio 43920
Phone: (330) 385-3381
Email: mayor@eastliverpool.com

cc:

Diane Hunter
THPO
PO Box 1326, Miami, OK 74355
(260) 639-0600
dhunter@miamination.com

Mason Waugh, RPA
Sr. Principal Investigator, Cultural Resources
Lawhon & Associates, Inc.
P: 614.481.8600 ext.124 | C: 614.551.0704
mwaugh@lawhon-assoc.com

Appendix C. OHIs within the 2 km study radius

OHI #	Name	Address	Year
COL0009918	Museum of Ceramics	400 E 5th St	1909
COL0020418	Carnegie Library	219 E 4th St	1902
COL0025418		424-427 E Grant St	1870
COL0025518	Ross Nursing Home	Ambrose St & Riley St	1902
COL0025618		904-908 Avondale St	1915
COL0025718	Fraternal Order of Eagles Hall	414 Broadway	1882
COL0025818	Masonic Temple	422 Broadway	1890
COL0025918	Central Fire Station	Broadway	1893
COL0026018	Jim's House of Bargains	Broadway at Alley N of 6th	1890
COL0026118	Potters National Bank	Broadway & 4th St	1882
COL0026218		8th St & Starkey St	1890
COL0026318		735 Lincoln Ave	1880
COL0026418		315 E 9th St	1880
COL0026518		244 W 7th St	1890
COL0026618	Grandmas Ceramics	127 E 6th St	1890
COL0026718		420 Walnut St	1880
COL0027018	Kent State University Building	400 E 4th St	1915
COL0027118	Potter Supply Company	606-614 Dresden St	1910
COL0027218		604-616 Dresden St	1880
COL0027318	Panhandle Taxi Building	609-615 Dresden St	1910

OHI #	Name	Address	Year
COL0027418	Arkadiou Building	618 622 Dresden St	1915
COL0027518	Fricot Building	627-629 Dresden St	1906
COL0027618	Chucks TV Service	Dresden St	1870
COL0027718	Coachman Inn	Dresden St	1920
COL0027818	Brewery	8th St	1900
COL0027918	Reese Diamond Store	104-106 E 5th St	1890
COL0028018	Neil Adams Florsheim Shoes	108 110 E 5th St	1897
COL0028118	D & K Stores	109 111 E 5th St	1910
COL0028218	Crooks Furniture Store	112 E 5th St	1900
COL0028318	Lanes Discount Drugs	115-117 E 5th St	1910
COL0028418	JC Penney Co	119 E 5th St	1920
COL0028518	First National Bank	120 E 5th St	1923
COL0028618	Dollar General Store	127 E 5th St	1880
COL0028718	Ogilvies Department Store	129 E 5th St	1912
COL0028818	Golding Block	134 E 5th St	1880
COL0028918	Potters Bank & Trust	200 E 5th St	1928
COL0029018	Nanciannes Store	206 E 5th St	1890
COL0029118	Wetzel Cleaners	201 E 5th St	1874
COL0029218	Emporium	210 E 5th St	1900
COL0029318	Arcade Market	Litten Motor Sales	1920
COL0029418		501 E Main St	1900
COL0029518	Guss Party Store	5th St & Walnut St	1940

OHI #	Name	Address	Year
COL0029618	St Aloysius School	W 5th St	1903
COL0029718		W 5th St	1915
COL0029818	McCroys	105 109 5th St (and 506 Market St)	1905
COL0029918		110 W 5th St	1930
COL0030018	Ohio Power	114 W 5th St	1920
COL0030118	Ernest Sturgis House	122 W 5th St	1900
COL0030218	AS Fricana Inc Building	123 W 5th St	1890
COL0030318		124 W 5th St	1890
COL0030418	Grahm Wagner Monuments	133 W 5th St	1920
COL0030518	Heddleston House	134 W 5th St	1870
COL0030618	Elks Lodge	139 W 5th St	1910
COL0030718	Dr Bartlovich House	203 W 5th St	1897
COL0030818	First Baptist Church	225 W 5th St	1910
COL0030918	St Aloysius Rectory	231 W 5th St	1876
COL0031018		313 W 5th St	1890
COL0031118		337 W 5th St	1880
COL0031218	St Aloysius Church	W 5th St & Jackson St	1887
COL0031318	Congregation Beth Shalem	W 5th St & Monroe	1921
COL0031418	Book & Bible House Store	5th St & Market St	1890
COL0031518	First United Methodist Church	W 5th St & Jackson St	1921

OHI #	Name	Address	Year
COL0031618	Mary A Patterson Memorial Bldg	E 4th St	1924
COL0031718	East Liverpool Review Building	E 4th St	1950
COL0031818	Traveler's Hotel	115 E 4th St	1900
COL0031918	First Church of Christ	E 4th St & College St	1912
COL0032018	Cosmetology Academy	128 W 4th St	1887
COL0032118	George Phillips House	133 W 4th St	1890
COL0032218		139 W 4th St	1880
COL0032318		201 W 4th St	1880
COL0032418	St Stephens Episcopal Church	220 W 4th St	1900
COL0032518		328 W 4th St	1880
COL0032618	McNicol House	346 W 4th St	1900
COL0032718	Calvary Methodist Church	Jackson St	1923
COL0032818		317-319 Jackson St	1900
COL0032918		411 Jefferson St	1850
COL0033018	Scafidi's Corner Market	Jefferson St & 4th St	1870
COL0033118		718-720 Lincoln Ave	1930
COL0033218	McNutt Press	306 Market St	1915
COL0033318	Sayre Electric Company	401 Market St	1900
COL0033418	Keyes Company	408 412 Market St	1920

OHI #	Name	Address	Year
COL0033518	Resnicks Furniture Store	417 Market St	1910
COL0033618	Camera Mart	419 Market St	1900
COL0033718	L & B Donut Shop	420 Market St	1880
COL0033818	Bloors Store	Market St & 5th St	1890
COL0033918	McCrary Annex	506 510 Market St	1905
COL0034018	Lowe Building	522 Market St	1900
COL0034118	Sherwin Williams Paint Store	523 Market St	1890
COL0034218	Liberty Bowling & Billiards	Market St & 2nd St	1910
COL0034318	Simms Printing Co	E Market St, N of 2nd St	1900
COL0034418	Goodwin-Baggott Pottery	SEC 2nd & Market Sts	1844
COL0034518	William P Smith House	258 9th St	1870
COL0034618		324-326 E 9th St	1900
COL0034818	Rev Lewis Dawson House	249 Pennsylvania Ave	1900
COL0034918	George West House	257 Pennsylvania Ave	1900
COL0035018		121 W 2nd St	1860
COL0035118	Wasbutzky House	226 W 7th St	1890
COL0035218	John Thomas House	227 W 7th St	1880
COL0035318		257 W 7th St	1900
COL0035418	Little Building	6th St	1910
COL0035518	American Cash Grocer	133-135 E 6th St	1880

OHI #	Name	Address	Year
COL0035618	Army Recruiting Office	E 6th St & Market St	1880
COL0035718	City Hall	W 6th St	1934
COL0035818	Van Fossen Building	113 115 W 6th St	1904
COL0035918		120 W 6th St	1907
COL0036018		140-142 W 6th St	1880
COL0036118	David Kelly House	200 W 6th St	1880
COL0036218	Jesse Rankin House	341 W 6th St	1890
COL0036318	Chamber of Commerce	601 Dresden St	1905
COL0036418		W 6th St & Market St	1900
COL0036518	First Evangelical Presbyterian	W 6th St & Jefferson St	1889
COL0036618	Milligan Hardware	Smith St	1900
COL0036718	Milligan Hardware	320 Smith St	1900
COL0036818	Pioneer Pottery Company	778 Starkey St	1900
COL0036918	Church of God	ST Clair Ave & Grant St	1886
COL0037018	Vernas Pastries	605 St Clair St	1870
COL0037118	Allen Apartments	614 St Clair Ave	1916
COL0037218	Tobin Law Offices	617 St Clair Ave	1909
COL0037318	Colonial Grill	620 St Clair Ave	1920
COL0037418	Chalk & Cue	644 St Clair Ave	1902
COL0037518	John T Kelly Confectioner	649 St Clair Ave	1910
COL0037618		799-803 St Clair Ave	1880

OHI #	Name	Address	Year
COL0037718	Harry H Surls House	E 3rd St	1880
COL0037818	Dale Thompson House	305 E 3rd St	1876
COL0037918		115 W 3rd St	1860
COL0038018	Salvation Army Citadel	W 3rd St & Market St	1908
COL0038118	McKinley Hotel	Union St & 2nd St	1890
COL0038218	Emergency Squad Headquarters	Union St & 2nd St	1885
COL0038318	Thompson House Museum Cottage	311 Walnut St	1890
COL0038418	Medical Financial Consultants	504 Washington St	1920
COL0038518	Potters Savings & Loan	Washington & Broadway	1904
COL0038618	Jason Btz Printing Company	401 Washington Ave	1915
COL0038718	YMCA Building	134 E 4th St	1913
COL0038818	CW Lowers & Company Grocers	751 Webber Way	1920
COL0038918	Full Gospel Apostolic Church	Bradshaw St & Riley St	1900
COL0041918	East Liverpool Mine Openings	100 ft W of SR 39 near US 30	1900

APPENDIX C. FEMA FIRM Map

National Flood Hazard Layer FIRMette



80°34'27"W 40°37'26"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/20/2024 at 5:51 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



APPENDIX D. Wetlands Inventory Map

BASEMAPS >

MAP LAYERS >

- Wetlands
- Riparian
- Riparian Mapping Areas
- Data Source
 - Source Type
 - Image Scale
 - Image Year
- Areas of Interest
- FWS Managed Lands



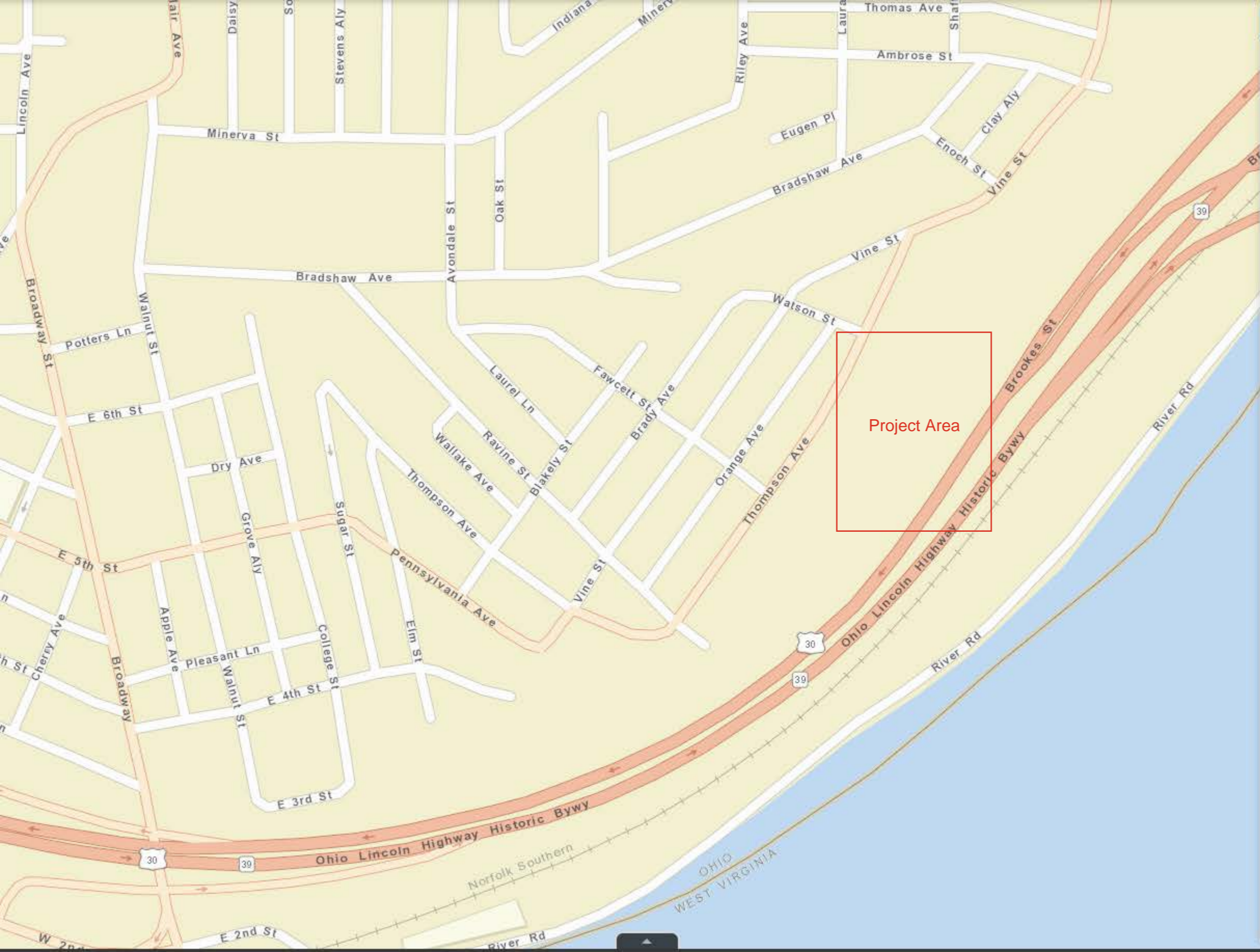
+ Measure

-

Home

LEGEND

APPENDIX E. Sole Source Aquifers Map



Layer List

Layers

- EPA Regions
- Sole_Source_Aquifers
- Counties
- Surface Water Features

APPENDIX F. Threatened and Endangered Species Resource List



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Ohio Ecological Services Field Office
4625 Morse Road, Suite 104
Columbus, OH 43230-8355
Phone: (614) 416-8993 Fax: (614) 416-8994

In Reply Refer To:

12/05/2024 21:27:19 UTC

Project Code: 2025-0028159

Project Name: Thompson Ave Water Tank Improvements

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Ohio Ecological Services Field Office

4625 Morse Road, Suite 104

Columbus, OH 43230-8355

(614) 416-8993

PROJECT SUMMARY

Project Code: 2025-0028159
Project Name: Thompson Ave Water Tank Improvements
Project Type: Water Supply Facility - Maintenance / Modification
Project Description: The project will include the necessary Engineering Design and Construction associated with improvements to portions of the City's primary water transmission mains that discharge directly from the City's Water Treatment Plant to the existing (3) million gallon Thompson Avenue water storage tank.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@40.61956120000001,-80.5684594408335,14z>



Counties: Columbiana County, Ohio

ENDANGERED SPECIES ACT SPECIES

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

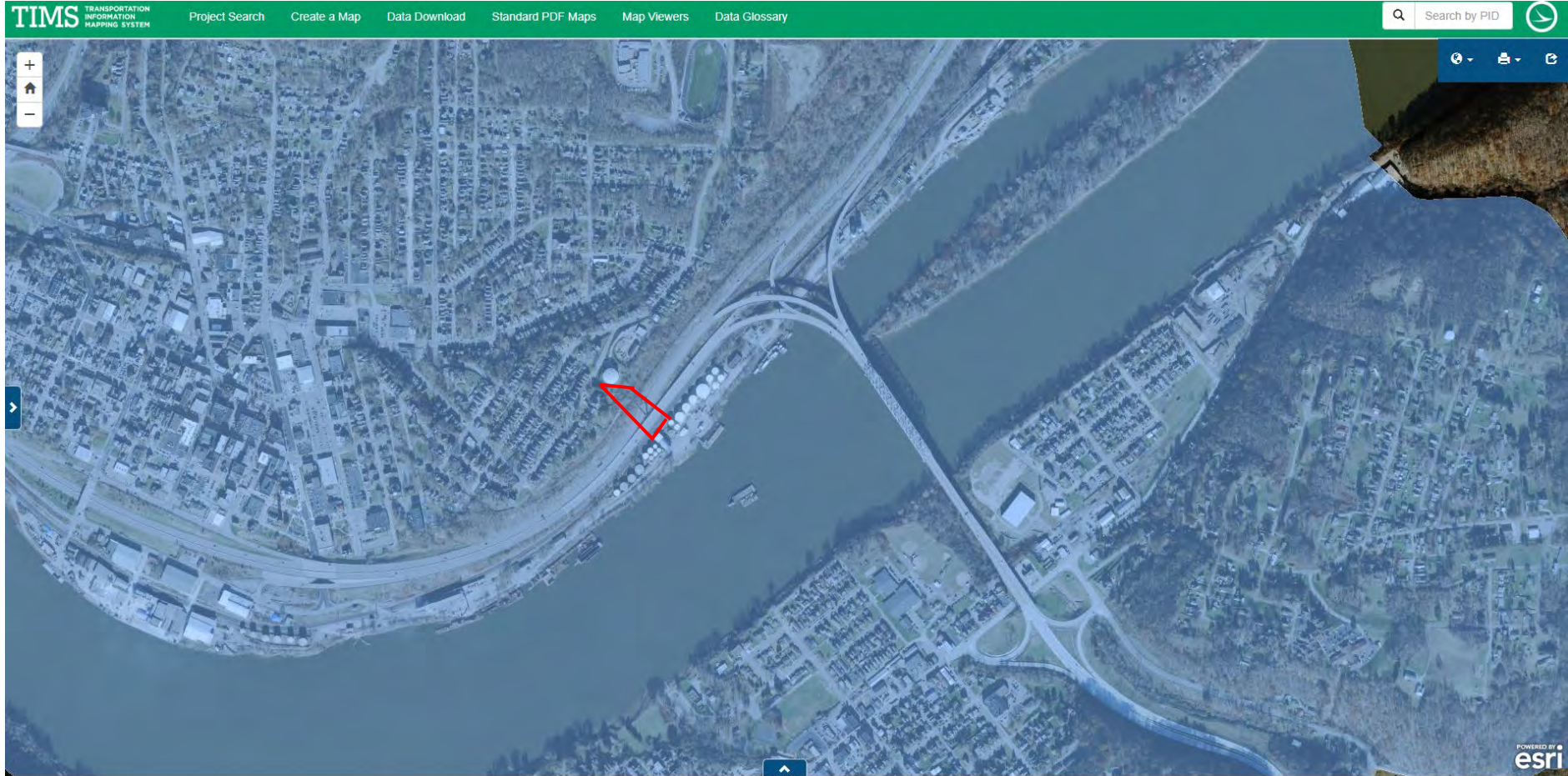
IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Jason Earley
Address: 1441 King Ave
City: Columbus
State: OH
Zip: 43212
Email: jeasley@lawhon-assoc.com
Phone: 6144818600

APPENDIX G. Scenic Rivers of Ohio Map



APPENDIX H. Farmland/Urbanized Area Map



Urbanized Area Boundary

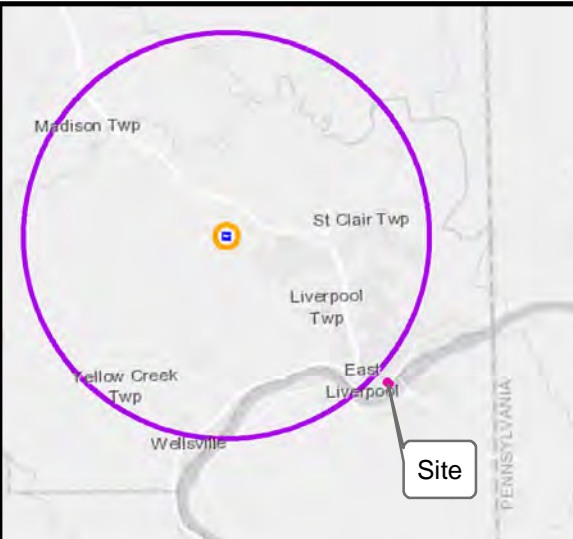
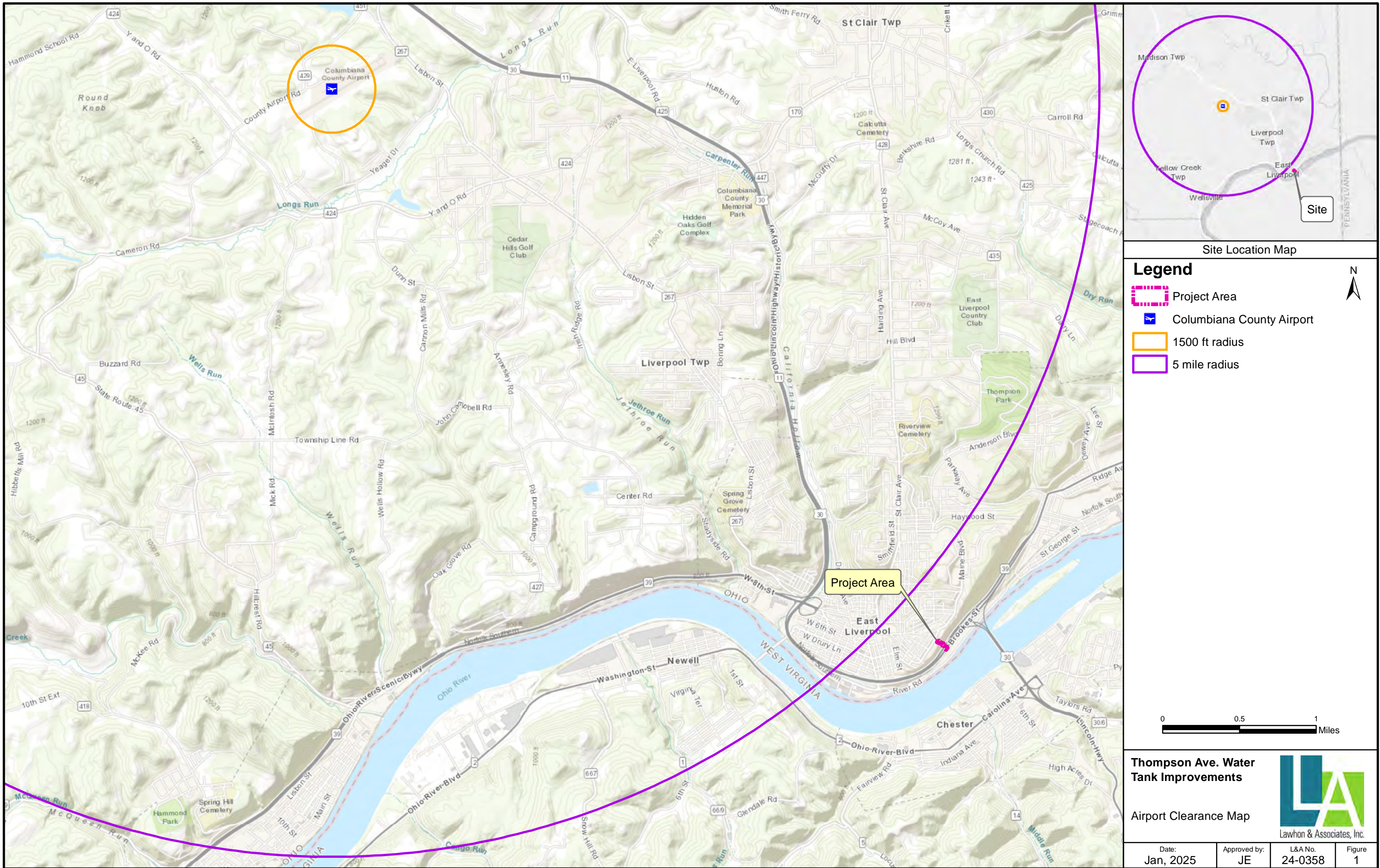
Project Area



Lawhon & Associates, Inc.





Thompson Ave Water Tank Project
Urbanized Area Boundary
Map Courtesy of TIMS

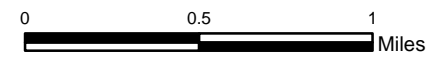
APPENDIX I. Airport Distance to Project Area Map



Site Location Map

Legend

-  Project Area
-  Columbiana County Airport
-  1500 ft radius
-  5 mile radius



Thompson Ave. Water Tank Improvements

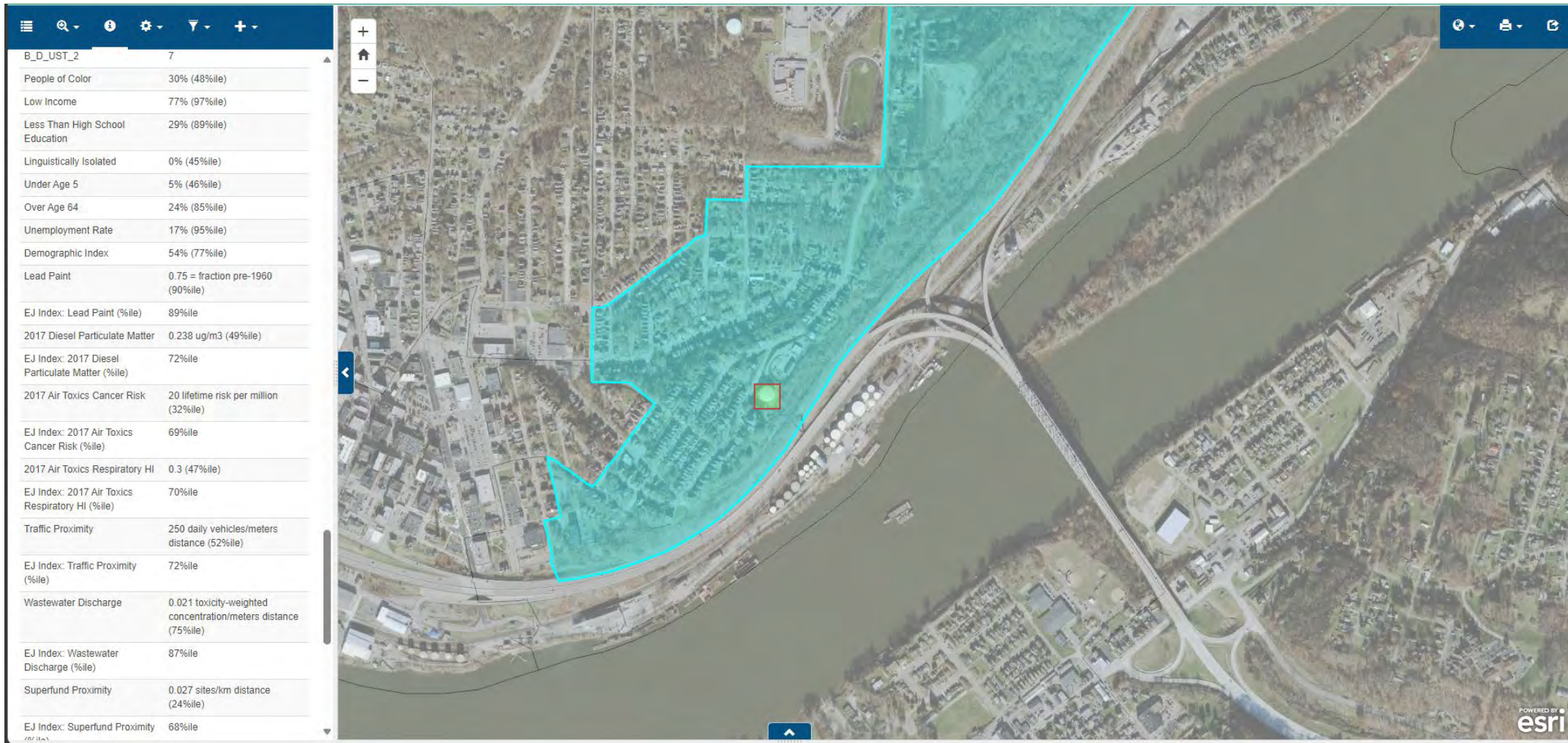
Airport Clearance Map



Lawton & Associates, Inc.

Date: Jan, 2025	Approved by: JE	L&A No. 24-0358	Figure 1
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APPENDIX J. Environmental Justice Maps



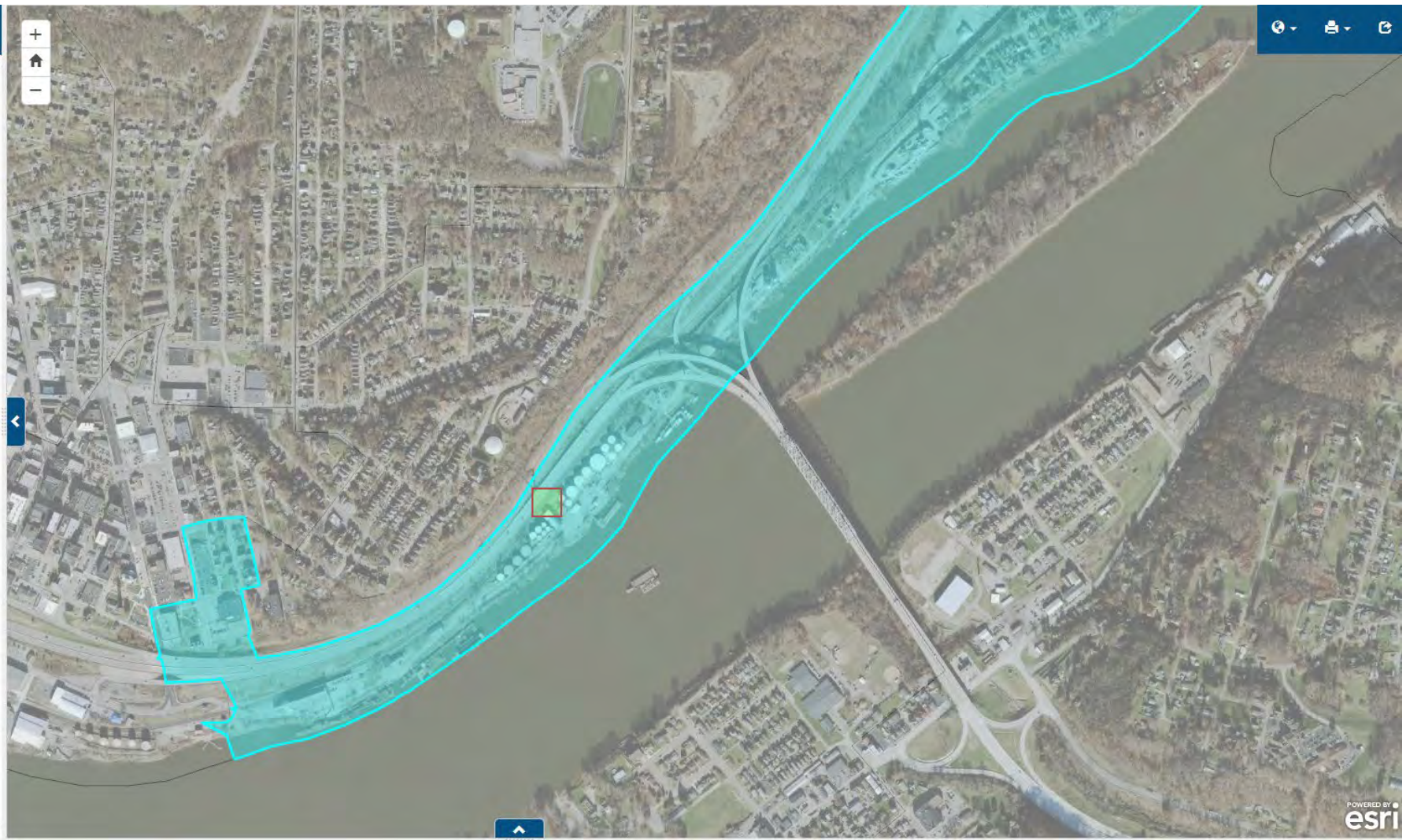
Tract ID: 390299523003



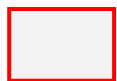
Project Location

Thompson Ave Water Tank Project
 Environmental Justice by Blockgroup
 Map Courtesy of TIMS

People of Color	15% (28%ile)
Low Income	57% (87%ile)
Less Than High School Education	18% (75%ile)
Linguistically Isolated	0% (45%ile)
Under Age 5	5% (47%ile)
Over Age 64	12% (38%ile)
Unemployment Rate	12% (90%ile)
Demographic Index	36% (58%ile)
Lead Paint	0.94 = fraction pre-1960 (98%ile)
EJ Index: Lead Paint (%ile)	69%ile
2017 Diesel Particulate Matter	0.226 ug/m3 (46%ile)
EJ Index: 2017 Diesel Particulate Matter (%ile)	59%ile
2017 Air Toxics Cancer Risk	30 lifetime risk per million (83%ile)
EJ Index: 2017 Air Toxics Cancer Risk (%ile)	59%ile
2017 Air Toxics Respiratory HI	0.3 (47%ile)
EJ Index: 2017 Air Toxics Respiratory HI (%ile)	59%ile
Traffic Proximity	340 daily vehicles/meters distance (59%ile)
EJ Index: Traffic Proximity (%ile)	61%ile
Wastewater Discharge	0.017 toxicity-weighted concentration/meters distance (73%ile)
EJ Index: Wastewater Discharge (%ile)	77%ile
Superfund Proximity	0.028 sites/km distance (25%ile)
EJ Index: Superfund Proximity (%ile)	59%ile



Tract ID: 390299523003



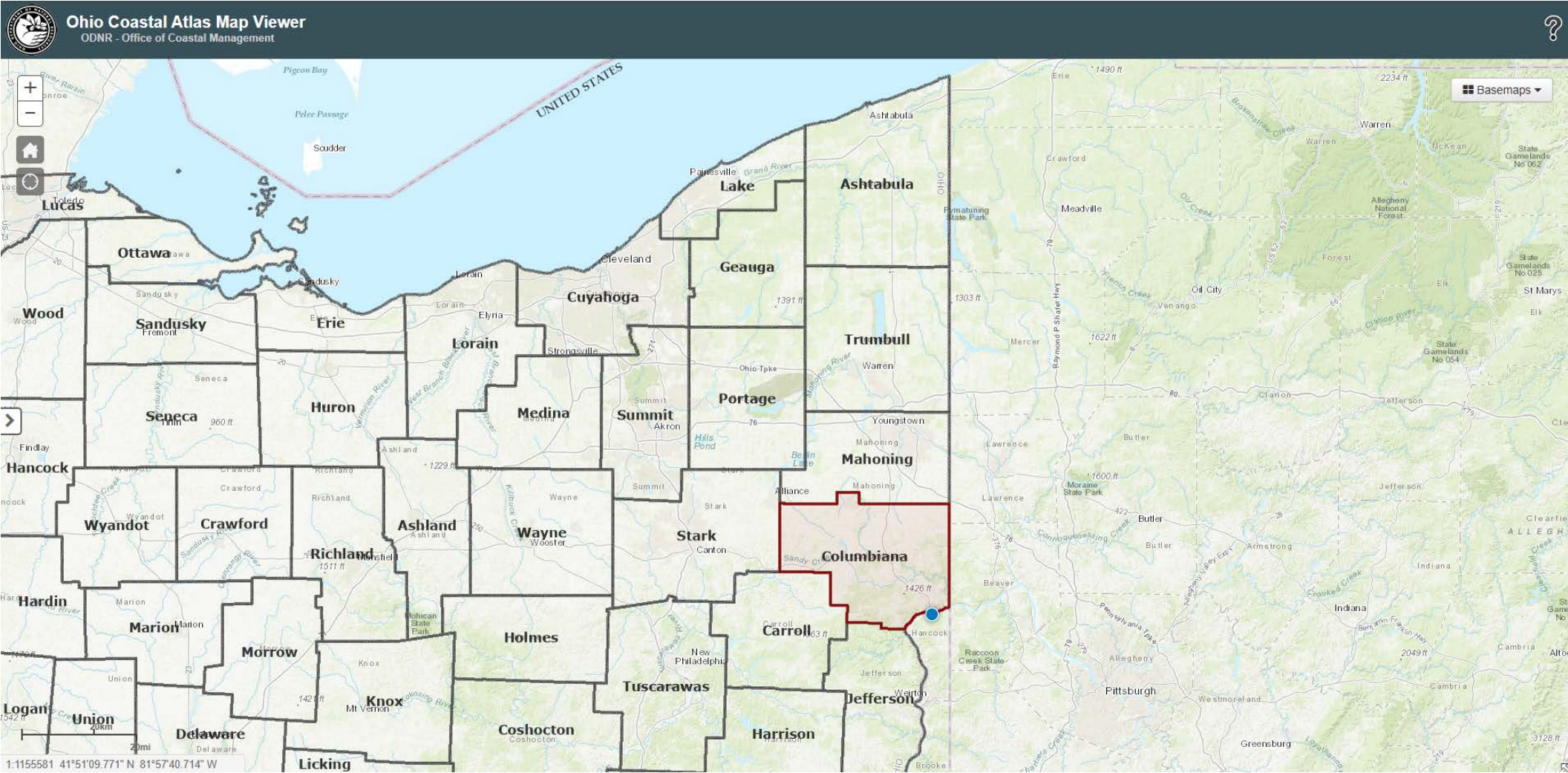
Project Location

Thompson Ave Water Tank Project
 Environmental Justice by Blockgroup
 Map Courtesy of TIMS



APPENDIX K. Coastal Zone Map

Ohio Coastal Atlas Map Viewer



APPENDIX L. Air Quality Map

Working with Ohio EPA during the COVID-19 pandemic.

National Ambient Air Quality Standards (NAAQS) - Attainment Status

The Clean Air Act, which was last amended in 1990, requires the United States environmental protection agency (USEPA) to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act identifies two types of national ambient air quality standards. **Primary standards** provide public health protection, including protecting the health of "sensitive" populations such as asthmatics, children, and the elderly. **Secondary standards** provide public welfare protection, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings.

The USEPA has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" air pollutants. Periodically, the standards are reviewed and may be revised. The current standards are listed below. Units of measure for the standards are parts per million (ppm) by volume, parts per billion (ppb) by volume, and micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$).

Fact Sheets

- [NAAQS and Nonattainment - What Businesses Need to Know](#)
- [NAAQS and Nonattainment - What Citizens Need to Know](#)

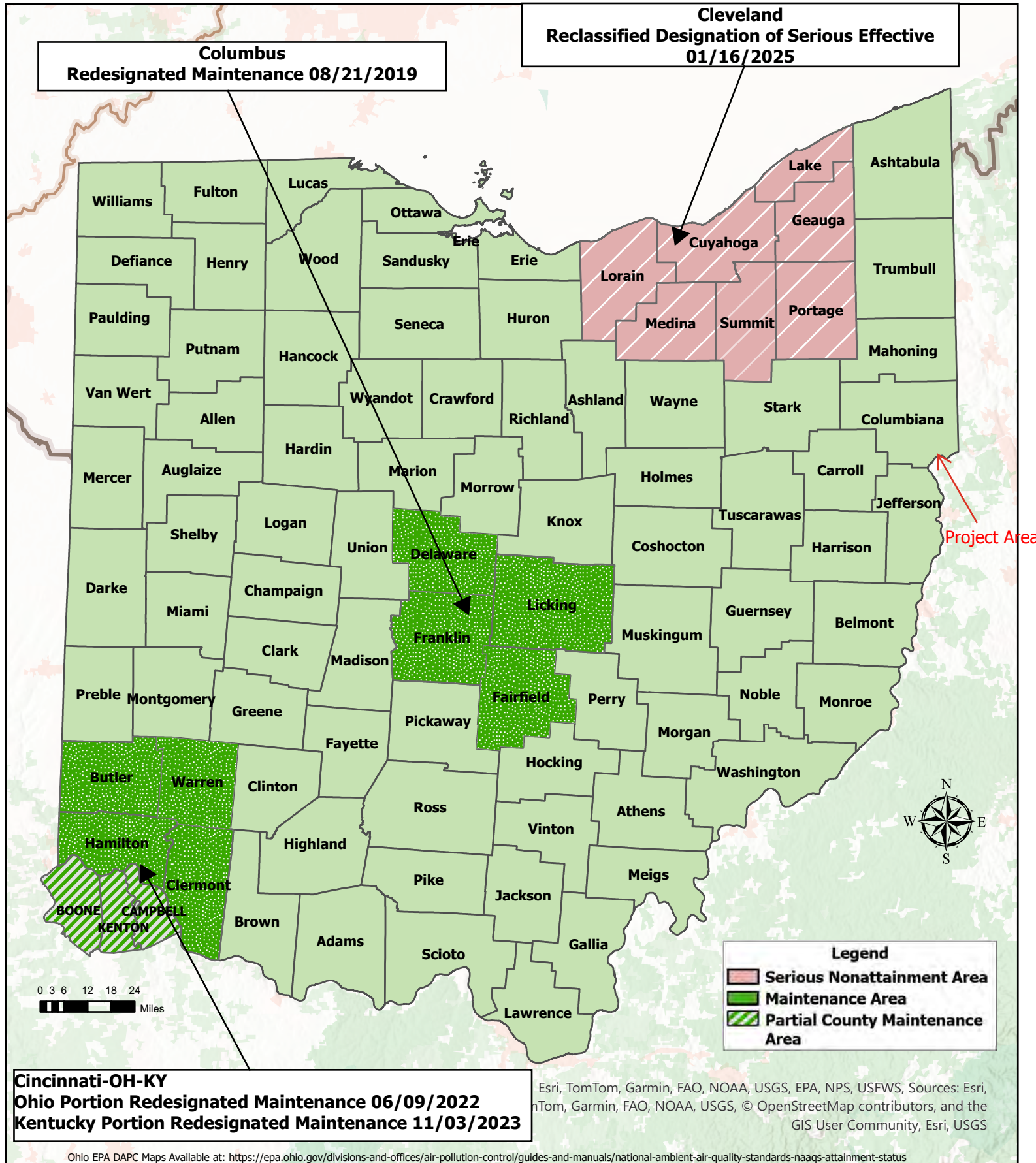
Pollutant	Primary/Secondary Standards	Averaging Time	Level	Form	Ohio Attainment Status	
Carbon monoxide	primary	Eight-hour	9 ppm	Not to be exceeded more than once per year	Full Attainment	
		One-hour	35 ppm		Full Attainment	
Lead(Pb)	primary and secondary	Rolling three-month Average	0.15 $\mu\text{g}/\text{m}^3$	Not to be exceeded	Full Attainment	
Nitrogen dioxide	primary and secondary	One-year	53 ppb	Annual Mean	Full Attainment	
	primary	One-hour	100 ppb	98th percentile of 1-hour daily maximum concentrations, averaged over 3 years	Full Attainment	
Particulate matter	PM ₁₀ primary and secondary	24-hour	150 $\mu\text{g}/\text{m}^3$	Not to be exceeded more than once per year on average over 3 years	Full Attainment	
		One-year	12.0 $\mu\text{g}/\text{m}^3$ (2012 Std.)	annual mean, averaged over 3 years	Full Attainment	
	PM _{2.5}	secondary	One-year	15.0 $\mu\text{g}/\text{m}^3$ (1997 Std.)	annual mean, averaged over 3 years	Full Attainment
		primary and secondary	24-hour	35 $\mu\text{g}/\text{m}^3$ (2006 Std.)	98th percentile, averaged over 3 years	Full Attainment
Ozone	primary and secondary	Eight-hour	0.070 ppm (2015 std)	Annual fourth-highest daily maximum 8-hour concentration, averaged over 3 years	Map	
		Eight-hour	0.075 ppm (2008 std)	Annual fourth-highest daily maximum 8-hour concentration, averaged over 3 years	Full Attainment	
	primary and secondary	Eight-hour	0.08 ppm (1997 std)	Annual fourth-highest daily maximum 8-hour concentration, averaged over 3 years	Full Attainment	
Sulfur dioxide	primary	One-hour	75 ppb	99th percentile of 1-hour daily maximum concentrations, averaged over 3 years	Map	
	secondary	Three-hour	0.5 ppm	Not to be exceeded more than once per year	Full Attainment	

QUICK LINKS

- [AirOhio, Air Monitoring Data](#)
- [Air Monitoring Plan](#)
- [Current Air Quality Map](#)
- [Baseline Air Monitoring Hydraulic Fracturing](#)
- [Air Pollution Home Page](#)

Ohio 2015 Eight-Hour Ozone (0.070 ppm) Nonattainment Areas

Original Designations of Marginal Effective 08/03/2018
Reclassified Designation of Moderate Effective 11/07/2022
Reclassified Designation of Serious Effective 01/16/2025



Ohio 2012 Annual PM2.5 (12.0 ug/m3) Nonattainment Areas Effective 04/15/2015

Cleveland, OH
(Redesignated 04/12/2019)



Ohio EPA DAPC Maps Available at:
<http://www.epa.ohio.gov/dapc/general/naaqs.aspx>

APPENDIX M. Explosive and Flammable Operations Map



Summary Report

Analyzed Area

Draw Your Area | Upload Study Area Shapefile

Select draw mode

Buffer distance (optional)

Show results within
150 Feet

Report | Start Over