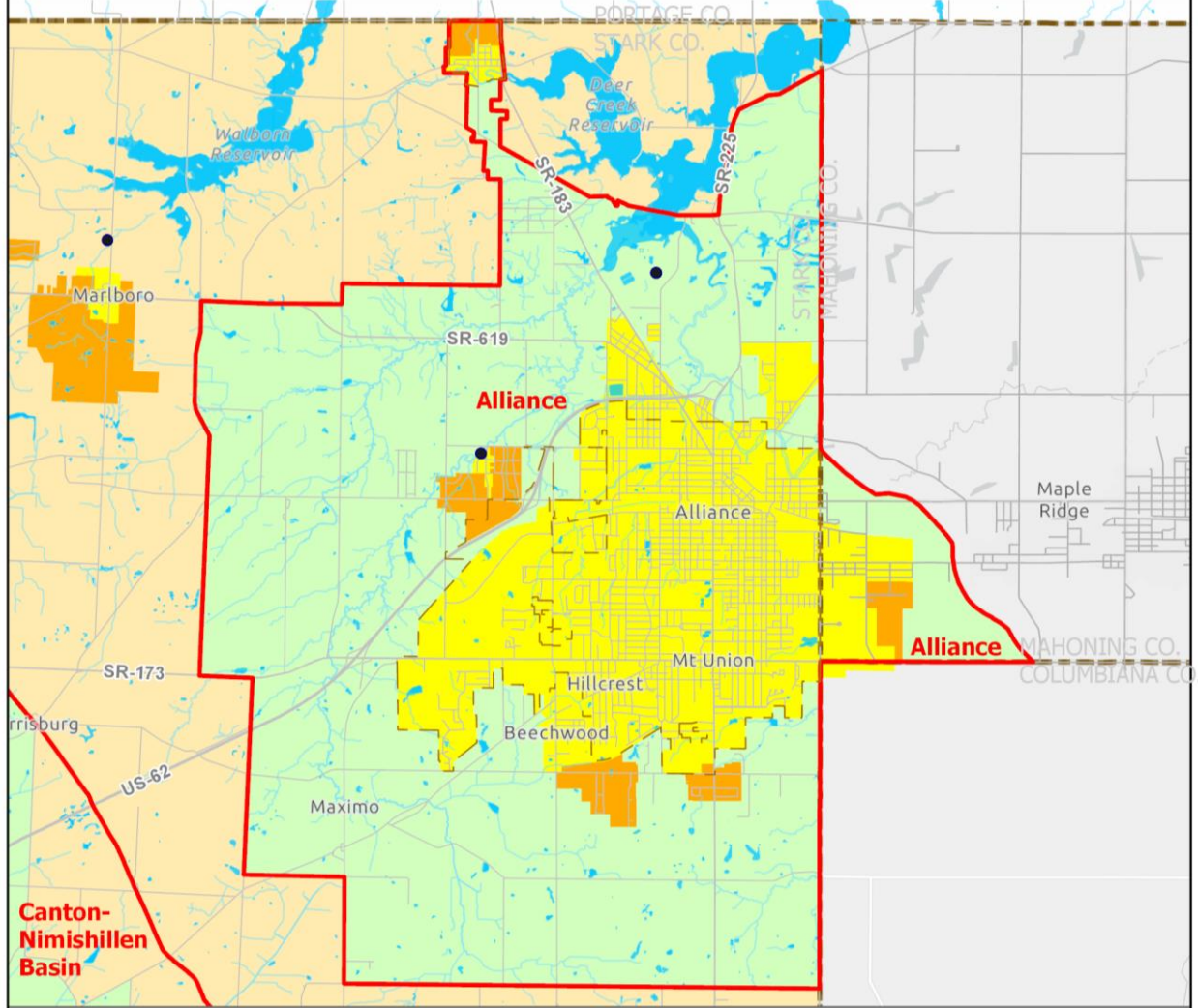


# **Appendix 3-14**

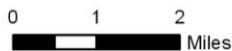
## **Alliance Facilities Planning Area**

# Alliance Facilities Planning Area

## 208 Clean Water Plan



- |   |  |  |  |  |   |   |  |
|---|--|--|--|--|---|---|--|
| <span style="display: inline-block; width: 15px; height: 10px; background-color: yellow; border: 1px solid black;"></span> Areas Currently Served with Sanitary Sewer | <span style="display: inline-block; width: 15px; height: 10px; background-color: orange; border: 1px solid black;"></span> Areas Expected to be Served with Sanitary Sewers within the next 20 Years | <span style="display: inline-block; width: 15px; height: 10px; background-color: lightorange; border: 1px solid black;"></span> Areas that will be Served by Home Sewage and Semi-Public Sewage Disposal Systems | <span style="display: inline-block; width: 15px; height: 10px; background-color: lightgreen; border: 1px solid black;"></span> Areas that will be Served by a POTW or by Home Sewage and Semi-Public Sewage Disposal Systems | <span style="display: inline-block; width: 15px; height: 10px; background-color: white; border: 1px solid black;"></span> Areas Without a Wastewater Treatment Planning Prescription | <span style="display: inline-block; width: 15px; height: 10px; background-color: lightblue; border: 1px solid black;"></span> Lakes and Ponds | <span style="display: inline-block; width: 15px; border-bottom: 2px solid red;"></span> FPA Boundary  | <span style="display: inline-block; width: 15px; border-bottom: 1px solid blue;"></span> Stream            |
|   |  |  |  |  |   | <span style="display: inline-block; width: 15px; border-bottom: 1px dashed gray;"></span> Municipal Boundary  | <span style="display: inline-block; width: 15px; border-bottom: 1px dashed brown;"></span> County Boundary |
|   |  |  |  |  |   | <span style="display: inline-block; width: 15px; border-bottom: 1px solid gray;"></span> Numbered Route   | <span style="display: inline-block; width: 15px; border-bottom: 1px solid gray;"></span> Other Road        |
|   |  |  |  |  |   | <span style="display: inline-block; width: 10px; height: 10px; background-color: black; border-radius: 50%;"></span> Publicly Owned Wastewater Treatment Works (POTW) |  |



\* Please see Clean Water Plan text for a complete explanation of the mapping categories.  
 \* Please see the FPA Reference Map (Appendix 3-1) for names of adjacent FPAs .

Northeast Ohio Four County Regional Planning and Development Organization, 2020  
 Sources: Stark County GIS; Mahoning County GIS; Ohio EPA; National Hydrologic Database; AMATS; NEFCO; ESRI base map.

## **Alliance Facilities Planning Area**

### **I. Existing Situation**

#### **A. County/Basin:**

Stark, Mahoning and Columbiana/Ohio River Basin

#### **B. Facilities Planning Area:**

Alliance

#### **C. Management Agency (MA):**

I. Primary MA

a) City of Alliance

II. Secondary MA

a) Stark County Metropolitan Sewer District

#### **D. Publicly-Owned Treatment Works:**

a. Alliance Wastewater Treatment Plant, 7.5000 MGD

b. Village Green WWTP, 0.020 MGD (Stark County)

#### **E. Facilities Plan:**

1. Frank A. Thomas & Associates, Inc., Facilities Plan for Improvements in a Proposed Alliance Regional Sewer System, April, 1975.

2. Ibid., Report on Improvements to the Alliance Wastewater Collection System for the City of Alliance, January, 1976.

3. Ibid., The Coordinated Alliance Area Regional Facilities Plan, July, 1976.

4. Ibid., Report on Improvements to the Alliance Wastewater Collection System for the City of Alliance, Addendum, September, 1976.

Planning for the Mahoning - Columbiana Counties portion of the Facilities Planning Area was done by the W. E. Quicksall and Associates in conjunction with the documents described above.

#### **F. Area Served:**

Stark County - City of Alliance, Lexington Township (part), Marlboro Township (part) and Washington Township (part)

Mahoning County - Smith Township (part)

Columbiana County - Knox Township (part)

#### **G. Receiving Stream:**

a. Beech Creek tributary to Berlin Reservoir

b. Beech Creek

**H. Contact Person/Address/Phone/Fax:**

- a. Curtis D. Bungard, City Engineer  
City of Alliance  
504 East Main Street  
Alliance, Ohio 44601  
Phone: (330) 823-5122  
Fax: (330) 823-2236
  
- b. Mr. Jim Troike, P.E., Sanitary Engineer  
Stark County Metropolitan Sewer District  
P.O. Box 9972  
1701 Mahoning Road. N.E.  
Canton, Ohio 44711-0972  
Phone: (330) 451-2303  
Fax: (330) 451-2368

**I. Population Served:**

The population projections used in the 201 Plan and those in the NEFCO 208 Clean Water Plan are compared below.

Alliance	<u>2000</u>	<u>2005</u>	<u>2020</u>	<u>2025</u>
201	33,450	-----	-----	-----
Approved 208	34,662	35,047	-----	-----

The above population projections (Approved 208) were prepared in 1990. Updated projections are scheduled to be prepared after county population projections are produced by the Ohio Department of Development Office of Strategic Research.

**II. Wastewater Treatment Planning Prescription and Wastewater Planning Options**

Original source information provided by the Stark County Metropolitan Sewer District, January 15, 2005.

*City of Alliance Jurisdiction*

**Areas Currently Served with Sanitary Sewers (yellow):**

These areas are currently served with existing sanitary sewers. However, there still may be undeveloped tracts of land and vacant lots that are subject to improvement.

All new developments/construction in this planning area will be required and responsible to connect to and/or provide sanitary service to ensure that wastewater will be transported and treated at an existing publicly owned treatment works (POTW). Properties with failing HSTs or semi-public sewage treatment systems will be required and responsible to connect to existing sanitary sewers, or sanitary sewer service must be provided by the property owner to ensure that wastewater will be transported and treated at an existing POTW. HSTs serving single, two, and three-family homes shall be abandoned in accordance with Ohio Administrative Code 3701-29-02. For HSTs, limited variances to any provision of this

prescription may be granted by the local Board of Health based on sanitary sewer availability and/or accessibility, threat to the public health, or other unique conditions.

*Stark County Metropolitan Sewer District Jurisdiction*

**Areas Currently Served with Sanitary Sewers (yellow):**

These areas are currently served with sanitary sewer. However, there still may be undeveloped parcels of land that are subject to improvement and isolated structures that are not connected to sanitary sewer.

All new developments in yellow areas will be required to connect to existing sanitary sewer or construct a new sanitary mainline sewer to ensure that wastewater will be transported to an existing publicly owned treatment works (POTW). Properties served by household sewage treatment systems (HSTS), small flow on-site sewage treatment systems (SFOSTS), or semi-public sewage treatment systems will be required to connect to sanitary sewer when it becomes available. The cost of such sewer connection shall be born by the property owner. Properties with failing HSTS, SFOSTS, or semi-public sewage treatment systems will be required to connect to existing sanitary sewer, or a mainline sanitary sewer must be constructed by the property owner to ensure that wastewater will be transported to and treated by a POTW. HSTS, SFOSTS and semi-public sewage treatment systems shall be abandoned in accordance with law. For both new and existing developments, the Stark County Sanitary Engineer will determine whether or not the sewer connection is acceptable. If it is determined by the Stark County Sanitary Engineer that the POTW and/or sanitary sewer do not have capacity to accept the connection, or there are other physical, legal or financial barriers prohibiting connections, then documentation that adequately and reasonably supports the claim must be provided to the Stark County Board of Health and/or Ohio EPA. The Board of Health or Ohio EPA, whichever has legal authority over the development, after review of the information, may permit the use of onsite sewage treatment systems. In no case shall a system producing an off-lot discharge of effluent be permitted for new construction. For HSTS and SFOSTS, limited variances to any provision of this prescription may be granted by the Stark County Board of Health, based on sanitary sewer availability and/or accessibility, threat to public health or other unique conditions.

**Areas Expected to be Served with Sanitary Sewers within the Next 20 years (orange):**

*Village of Limaville* - This area contains some large undeveloped tracts of land and vacant lots subject to improvement. All new commercial, industrial, institutional, and residential subdivisions in the Limaville area will be required to connect to existing sanitary sewers for removal of sanitary wastewater and transportation to a publicly-owned treatment works (POTW). The developer shall be required to extend new sanitary sewer service from the proposed development to the existing sanitary sewer system that is served by a POTW. Existing non-single-family private treatment systems which fail to operate properly will be required to connect to and/or provide sanitary sewer service to ensure that wastewater will be treated at an existing POTW. Failing HSTS's serving single, two, and three-family homes shall be abandoned in accordance with Ohio Administrative Code 3701-29-02. Variances to any provision of this prescription may be granted by the local Board of Health based on sanitary sewer availability, threat to the public health, other unique conditions. Publicly

operated wastewater treatment plants, commonly referred to as “package plants,” will not be approved for new residential, commercial, or industrial subdivisions.

**Areas that will be Served by a POTW or Home Sewage or Semi-Public Sewage Disposal Systems (green):**

**(Subdivisions)**

New commercial, industrial and residential subdivisions required to be platted by state and/or local regulations will be required to provide sanitary sewer service to ensure that sanitary wastewater will be transported to and treated at an existing POTW when:

1. An existing sewer, owned and operated by a Management Agency (MA), is within 2,500 ft. of the property proposed for development. For subdivisions which require pumping to reach an existing sewer, the development must comprise a minimum of 50 single-family lots, or the development must be projected to produce the equivalent sewage flow of 50 single-family lots.
2. It is determined by the Stark County Sanitary Engineer that the POTW and existing sanitary sewer have capacity to accept flow from the proposed development.
3. The Stark County Sanitary Engineer deems the connection to sewer as acceptable.
4. There are no other physical, legal, or financial barriers prohibiting such connection.

If it is determined that such a barrier exists, then documentation that adequately and reasonably supports the claim must be provided to the Stark County Board of Health and/or the Ohio EPA. The Stark County Board of Health or the Ohio EPA, whichever has legal authority over the development, after review of the information, may permit the use of onsite sewage treatment systems. In no case shall a system producing an off-site discharge be permitted for new development. For HSTS and SFOSTS, limited variances to any provision of this prescription may be granted by the Stark County Board of Health based on sanitary availability and/or accessibility, threat to public health or other unique conditions. New, centralized wastewater treatment systems serving new developments with more than one lot/parcel, excluding approved SFOSTS, will not be approved.

**(Individual Lots - residential)**

New residential development on existing, individual parcels/lots or newly created, unplatted parcels will be required to provide sanitary sewer service to ensure that sanitary wastewater will be transported to and treated at an existing POTW when:

1. An existing sewer, owned and operated by a Management Agency (MA), is within 400 ft. of the parcel/lot proposed for development.
2. It is determined by the Stark County Sanitary Engineer that the POTW and existing sanitary sewer have capacity to accept flow from the proposed development.
3. The Stark County Sanitary Engineer deems the connection to sewer as acceptable.
4. There are no physical, legal, or financial barriers prohibiting such connection.

If it is determined that such a barrier exists, then documentation that adequately and reasonably supports the claim must be provided to the Stark County Board of Health. The

Stark County Board of Health, after review of the information, may permit the use of onsite sewage treatment systems. Where sanitary sewer is currently not accessible, individual parcels may be improved with new HSTS or SFOSTS, provided the Stark County Health Department finds that conditions are suitable. In no case shall a system producing an off-site discharge of effluent be permitted for new construction. An owner of an existing parcel served by an HSTS or a SFOSTS may extend a mainline sanitary sewer to the parcel so that wastewater is transported to an existing POTW, when and if the Stark County Sanitary Engineer deems the extension and connection as acceptable. When sanitary sewer becomes available, existing HSTS, SFOSTS and semi-public sewage treatment systems shall be abandoned in accordance with law, and the parcel shall be connected to sanitary sewer at the cost of the parcel owner. For HSTS and SFOSTS, variances to any provision of this prescription may be granted by the Stark County Board of Health based on sanitary sewer availability and/or accessibility, threat to the public health or other unique conditions.

New POTW and sanitary sewer intended to serve areas of existing residential development served by HSTS, SFOSTS and semi-public sewage treatment systems are acceptable.

**(Individual Lots - non-residential)**

New commercial development on existing individual parcels or newly created unplatted parcels will be required to provide sanitary sewer service to ensure that sanitary wastewater will be transported to and treated by an existing POTW when:

1. An existing sanitary sewer, tributary to a POTW, is within 1,000 ft. of the property proposed for development.
2. It is determined by the Stark county Sanitary Engineer that the POTW and existing sanitary sewer have capacity to accept flow from the proposed development.
3. The Stark County Sanitary Engineer deems the connection to sewer as acceptable.
4. There are no physical, legal, or financial barriers prohibiting such connection.

If it is determined that such a barrier exists, documentation shall be provided to the Stark County Board of Health and/or Ohio EPA. The Board of Health or Ohio EPA, whichever has legal authority over the development, after review of the information, may permit the use of onsite sewage treatment systems. In no case shall a system producing an off-site discharge of effluent be permitted for new construction. For HSTS and SFOSTS, limited variances to any provision of this prescription may be granted by the Stark County Board of Health based on sanitary sewer availability and/or accessibility, threat to public health or other unique conditions. New, centralized wastewater treatment systems serving new development with more than one lot/parcel, excluding approved SFOSTS, will not be approved. Properties served by existing, failing semi-public treatment systems or SFOSTS, when deemed necessary by the Stark County Board of Health or Ohio EPA, will be required to connect to existing sanitary sewer, sanitary sewer service must be provided by the property owner to ensure that wastewater will be transported to and treated by an existing POTW. Otherwise, failing semi-public treatment systems and SFOSTS must be repaired or replaced to current standards. At the cost of the property owner, all properties served by semi-public treatment systems or SFOSTS, including functioning systems, shall be connected to sanitary sewer

when it becomes available or when the property owner is so directed by the Ohio EPA, Stark County Board of Health or Board of Stark County Commissioners.

**Areas that will be Served by Home Sewage and Semi-Public Sewage Disposal Systems (cream):**

These areas are, for the most part, a great distance from existing sanitary sewers. Approval of connections to sanitary sewer for treatment of effluent at a POTW will be rare. Cream areas that appear closer to existing sewers are often burdened with other limitations to sanitary sewer to connection, such as: sanitary sewer capacity, physical obstructions to sewer construction, and flood plains.

Where sanitary sewer is not accessible, as determined by the Stark County Board of Health in conjunction with the Stark County Sanitary Engineer, new HSTS, SFOSTS or semi-public treatment systems may be permitted for subdivisions or individual parcels, based on evaluation and approval of the Stark County Board of Health or Ohio EPA, depending on authority granted by statute. In no case shall a system producing an off-site discharge of effluent be permitted for new construction. New, centralized wastewater treatment systems serving new development for more than one individual parcel, except approved SFOSTS, will not be approved. If sewer is not available, failing sewage treatment systems will be required to be repaired in accordance with Stark County Board of Health or Ohio EPA requirements, depending upon authority granted by statute.

Upon sanitary sewer becoming available, properties served by HSTS, SFOSTS or semi-public treatment systems will be required to connect to sanitary sewer to ensure that wastewater will be transported to and treated by a POTW. When sanitary sewer is available, HSTS, SFOSTS and semi-public sewage treatment systems shall be properly abandoned in accordance with law and the property shall be connected to sanitary sewer at the cost of the property owner. For HSTS and SFOSTS, variances to any provision of this prescription may be granted by the Stark County Board of Health based on sanitary sewer availability and/or accessibility, threat to public health or other unique conditions.