

## LIMITED ENVIRONMENTAL REVIEW

### **A. Project Identification**

Project Name: Village of Crestline – Sewer Separation Improvements Phase I

Address: Mr. Marc Milliron, Village Administrator  
Village of Crestline  
100 North Seltzer Street  
Crestline, OH 44827

WPCLF #: CS390289-0002

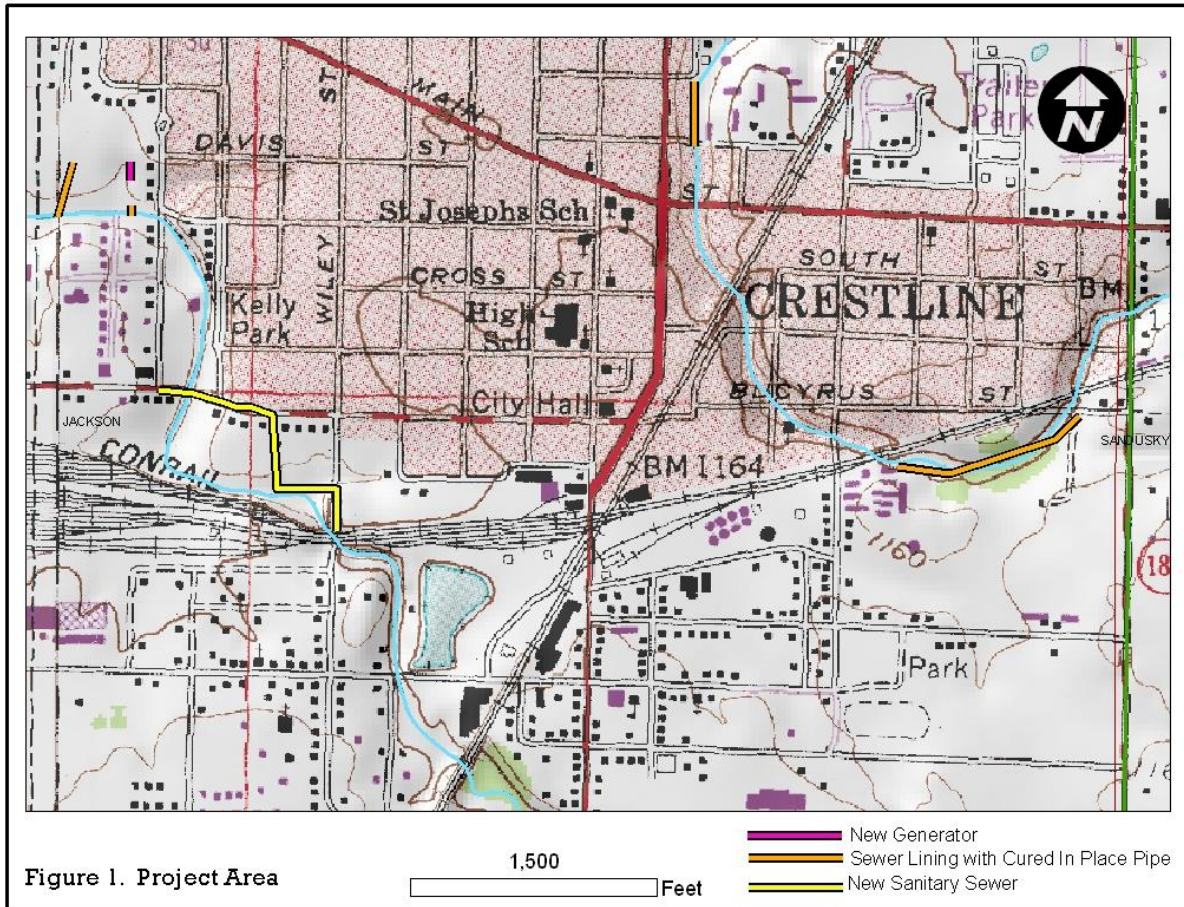
### **B. Existing Need and Project Description**

The Village of Crestline is under “Findings and Orders” by the Director of the Ohio Environmental Protection Agency (Ohio EPA) regarding the Village’s wastewater collection and treatment systems. The Findings and Orders, which became effective on April 4, 2011, require the Village to identify and eliminate sewer overflow locations within its sewer system infrastructure, as well as achieve compliance with the effluent limits in its National Pollutant Discharge Elimination System (NPDES) permit.

Project planning activities identified 7 active overflow areas within the Village’s existing sanitary sewer system. The purpose of this project is to eliminate - through the installation of cured-in-place sewer lining, back-up power, manhole replacement, and the installation of 1700 feet of new sanitary sewer line - those overflow locations that are active during periods of significant precipitation (wet-weather flows). The planned repair of sewer lines will help prevent inflow and infiltration (or I&I) of wet-weather flows into the sewer system. This, in-turn, is a critical step in eliminating the hydraulic overload of sanitary sewer lines during rain events that not only leads to sanitary sewer overflows at locations such as pump stations and manholes, but also contributes to the hydraulic overload of the Village’s wastewater treatment plant (WWTP), which decreases the WWTP’s ability to properly treat the Village’s sanitary sewer waste.

Sanitary sewer overflows are a known threat to public health and also degrade water quality and aquatic habitats. The Village of Crestline’s WWTP is permitted to discharge into Westerly Creek, which drains into Paramour Creek a little more than a half-mile downstream. The Aquatic Life Use designated for both Westerly Creek and Paramour Creek in the Ohio Administrative Code’s (OAC 3745-1-11) Water Quality Standards is Warmwater Habitat (WWH).

Ohio EPA's water quality monitoring efforts have determined that Paramour Creek, at its confluence with Westerly Creek, is in Non-Attainment of its designated WWH Aquatic Life Use. Similarly, water quality monitoring by Ohio EPA elsewhere in Westerly Creek has also determined that Westerly Creek is in Non-Attainment of its designated WWH Aquatic Life Use as well.



**C. Project Cost**

The total anticipated construction cost for the Crestline sewer project is approximately \$639,260. The Village of Crestline plans to finance project construction costs through the Ohio Water Pollution Control Loan Fund (WPCLF), which is administered by Ohio EPA's Division of Environmental & Financial Assistance (Ohio EPA-DEFA).

Through the WPCLF, the Village of Crestline will receive 50% of the total project construction cost, approximately \$319,630 in the form of a principal forgiveness loan, with the remaining balance (\$319,630) to be provided through a 20-year, 1% interest loan, also provided through the WPCLF. Principal forgiveness is similar to a grant in that it does not require repayment of the money.

The Village plans to repay the WPCLF loan award with funds collected through the Village's sewer usage fees. On December 26, 2006, the Village of Crestline passed Ordinance No. 2756, which set the Village's sanitary sewer rate structure through January 1, 2014. Based on this ordinance, the current sanitary sewer rate charge is \$48.46 for the first 600 ft<sup>3</sup> of metered sanitary sewer and is \$4.25 per 100 ft<sup>3</sup> for the next 3400 ft<sup>3</sup> of metered sanitary waste. Under this sewer service rate, a residential customer using up to 695 ft<sup>3</sup> or (5,200 gallons) of water per month will pay approximately \$52.71 for sewer service. The sewer rate is scheduled to increase by approximately 2% each January 1<sup>st</sup> through 2014. There will be no additional charges imposed on the Village of Crestline's service area customers as a result of the planned project.

#### **D. Project Schedule**

The proposed project anticipates a December 8, 2011 WPCLF loan award date. Project construction is planned to begin within January 2012 and be completed within 6 months (July 2012).

#### **E. Public Notification**

This project was presented to Village Council members at various council meetings that were held throughout 2011. Village Council meetings are public noticed and open to the public. A copy of the Engineering Planning Documentation for the project is available for review on the Village's Web site at <http://www.crestlineoh.com/>, while a hard copy is available at the Village Hall near the sewer billing offices, as well as at the library.

Additionally, a copy of this Limited Environmental Review (LER) document can be viewed at the Village of Crestline's Web site <http://www.crestlineoh.com/>, Ohio EPA's Web site [http://epa.ohio.gov/defa/public\\_comment.aspx](http://epa.ohio.gov/defa/public_comment.aspx), or in hard copy at the Village Hall (near the sewer billing offices) and at the Crestline Public Library.

## **F. Planning Information**

The following agencies have been provided information regarding the proposed project:

Ohio Environmental Protection Agency  
Ohio Department of Natural Resources  
Ohio Historic Preservation Office

A review of the U.S. Fish and Wildlife Service's Endangered Species List, specifically targeting Crawford County, was also completed for this project.

## **G. Conclusion**

The proposed improvements constitute a general project type (repair or upgrade of existing facilities) that qualifies for a Limited Environmental Review. More specifically, the Village of Crestline's Sewer Separation Improvements, Phase 1 project meets the following specific LER criteria:

***It has no significant environmental effect and no effect on high value environmental resources, and therefore does not require extensive specific impact mitigation.***

The majority of project construction activities include the rehabilitation of existing sewer system infrastructure, which includes:

- The installation of a new standby generator at the Davis Street Lift Station,
- relining of two existing siphons to prevent backflow, as well as
- the relining of 1,525 feet of sanitary sewer line with Cured-In-Place Piping (CIPP).

No potentially significant impacts are associated with these rehabilitation activities. However, the disturbance of soil will occur as a result of the installation of approximately 1700 feet of new sanitary sewer, which will be installed within the existing road rights-of-way along Wiley, Mansfield, Larwill and Bucyrus streets. Additionally, construction activities will be required to replace approximately 15 manholes and other concrete structures throughout the project route. Environmental protection measures have been put in place within the project plans that will assist in minimizing any associated environmental impacts (see Appendix A), which in terms of this project are short-term and related only to project construction activities.

***It is cost-effective and not controversial.***

The proposed Village of Crestline Sewer Improvements Phase I project is considered to be cost-effective because it utilizes, wherever possible, existing infrastructure that can be adequately maintained with appropriate rehabilitation methods such as CIPP materials, and puts into place new materials such as new manhole structures, new siphons, and new sanitary sewer line where replacement of the existing structure is the only reasonable alternative.

Additionally, the planned sanitary sewer improvements will prevent unnecessary degradation of the Village's WWTP due to the hydraulic overload of the treatment plant during periods of large wet-weather flows, will assist in preventing the unnecessary treatment of otherwise clear water flows thus saving on energy costs, will assist in assuring that the WWTP meets its prescribed NPDES permitted effluent limits, and will work to assist in the protection of aquatic habitats by improving the ability of Westerly Creek to meet its designated WWH – Aquatic Life Use.

No concerns have been voiced regarding the proposed project, and there are no significant adverse environmental or financial impacts related to its implementation, so it is not considered to be controversial.

***It does not create a new, or relocate an existing, discharge to surface or ground waters; nor will it result in substantial increases in the volume of discharge or the loading of pollutants from an existing source or from new facilities to receiving waters; nor will it provide capacity to serve a population substantially greater than the existing population.***

The proposed sanitary sewer rehabilitation has essentially no effect on the designed capacity of the sewer, so it will not serve to facilitate future development. Projects that eliminate extraneous water in the sewer can, however, decrease the volume of water discharged from the wastewater treatment plant.

The Ohio EPA's Environmental Review of this project did not identify any potentially-significant adverse impacts related to the construction and implementation of the planned project. Furthermore, this project is not expected to have any significant short-term or long-term adverse impacts on the quality of the human environment, or on sensitive resources (floodplains, wetlands, riparian areas, prime or unique agricultural lands, aquifer recharge zones, archaeologically or historically significant sites, or threatened or endangered species). Typical construction impacts, such as noise, dust, and exhaust fumes, will be short-term and addressed through the use of standard best management practices.

**H. For further information, please contact:**

Kristy Hunt  
Environmental Planning Section  
Division of Environmental and Financial Assistance  
Ohio Environmental Protection Agency  
P.O. Box 1049  
Columbus, OH 43216-1049  
(614) 644-3661  
[kristy.hunt@epa.state.oh.us](mailto:kristy.hunt@epa.state.oh.us)

# APPENDIX A

**City of Crestline**  
**Sewer Separation Improvements Phase I**  
**ENVIRONMENTAL PROTECTION MEASURES**

**I. PROJECT AREA SAFETY**

1. The contractor shall secure all equipment and materials during non-working hours. The construction site shall be made safe for any persons who are on-site after hours. The contractor shall make sure all trenches and excavated areas are either completely backfilled or plated as well as protected using barrels or fencing in such a manner as to positively separate vehicles and pedestrians from the project work area during non-working hours.

**II. EROSION AND SEDIMENTATION CONTROL**

1. Prior to the start of construction, all construction staging areas and soil washing areas must receive approval through Ohio EPA-DEFA, project contact: Kristy Hunt, Ohio EPA-DEFA, phone: (614) 644-3661.
2. Erosion and sedimentation control practices shall be installed to Natural Resources Conservation Service or equivalent standards and specifications for particular techniques. The practices are to be maintained in effective working condition during construction and until all disturbed areas have been permanently stabilized.
3. Clearing and grubbing shall not commence until the contractor is prepared to start construction.
4. All materials to be disposed of off-site must be disposed of in an environmentally sound manner in accordance with local, state, and federal regulations. No excess materials are to be disposed of in any wetland, flood plain, or other environmentally sensitive areas. Erosion control measures at the disposal site must be installed and maintained until disposal is complete and the disposal site is permanently stabilized.
5. Contractor shall remove daily all mud, soil, and debris that may be tracked onto existing streets, drives, or walks by his equipment or that of subcontractors or suppliers.
6. Unpaved areas shall be wet down, as necessary, using water or other environmentally benign substance during construction to minimize dust.

7. When working adjacent to a waterway, the contractor shall maintain a buffer zone of undisturbed vegetation between the work area and the waterway. If a buffer zone of vegetation cannot prevent siltation of the waterway, silt barriers shall also be installed by the contractor in these areas to prevent sediment-laden runoff from entering the waterway.
8. If work is suspended for any reason, the contractor shall maintain the soil erosion and sedimentation controls in good operating condition during the suspension of the work. Also, when seasonal conditions permit and the suspension of work is expected to exceed a period of one month, the contractor shall place topsoil, fine grade, seed, fertilize, and mulch all disturbed areas left exposed when work is stopped.

### **III. AIR POLLUTION / NOISE CONTROL**

1. Construction shall be limited to daytime hours.
2. Construction equipment shall be provided with intake silencers and mufflers, as required by safety standards.
3. All construction vehicles shall be equipped with proper emissions control equipment.
4. All equipment and machinery shall be maintained to minimize exhaust emissions and noise.

### **IV. TREES / VEGETATION PROTECTION**

1. Due to the possible presence of Indiana bat habitat, no trees shall be removed during the nesting season, between the dates of March 31 and October 1. If tree removal during the nesting season is necessary, then a net survey to verify the presence or absence of the Indiana bat, within the project area, will need to occur prior to the removal of any trees.
2. Soil and other material shall not be stored next to or within the drip-line of trees.
3. The contractor shall exercise care to not damage the bark, trunks, limbs, and roots of vegetation located near the project construction area. Should damage occur, the contractor shall repair all injuries by properly dressing, cutting, and bracing the vegetation using only approved tree surgery methods, tools, and materials.
4. Selective pruning of tree limbs prior to construction shall only be done within established easements where removal is necessary for operation of equipment.

## V. **DEWATERING**

1. All dewatering flows shall be settled in siltation basins or directed through filtering devices before being discharged to stabilized sites, such as streams or storm sewers, not onto exposed soils, stream banks, or any other site where the flow could cause erosion.
2. Silt from construction sites shall not be permitted to enter storm sewers. When construction occurs near storm sewer inlets, erosion control measures such as inlet filters shall be used to prevent silt from entering the storm sewers.
3. All water shall be conveyed from the construction site in a closed conduit. Do not use trench excavations as temporary drainage ditches.

## VI. **ARCHAEOLOGICAL / HISTORICAL RESOURCES**

1. Contractors and subcontractors are required under Ohio Revised Code Section 149.53 to notify the Ohio Historical Society and the Ohio Historic Site Preservation Board of archaeological discoveries in the project area, and to cooperate with those entities in archaeological and historic surveys and salvage efforts.

Contact: Ohio Historic Preservation Office  
Phone: 614-298-2000

## VII. **PROHIBITED CONSTRUCTION ACTIVITIES**

1. Disposing of excess or unsuitable excavated material or trees, brush, and other debris in any stream corridor, any wetlands, any surface waters, or at unspecified locations.
2. Stockpiling materials or storing construction equipment and vehicles on property not specified on the plans by the engineer for such purposes.
3. Indiscriminate, arbitrary, or capricious operation of equipment in any stream corridors, any wetlands, any surface waters, or outside the easement limits.

4. Pumping of sediment-laden water from trenches or other excavations directly into any surface waters, any stream corridors, any wetlands, or storm sewers; all such water shall be properly filtered or settled to remove silt prior to release.
5. Discharging pollutants such as chemicals, fuels, lubricants, bituminous materials, raw sewage, or other harmful waste into or alongside of rivers, streams, impoundments, or into any natural or man-made channels.
6. Permanent or unspecified alteration of the flow line of any stream.
7. Open burning of project debris without a permit.
8. Discharging injurious silica dust concentrations into the atmosphere resulting from breaking, cutting, chipping, drilling, buffing, grinding, polishing, shaping or surfacing closer than 200 feet to places of residences or commercial, professional, quasi-public, or public places of human occupation.
9. Running well point or pump discharge lines through private property or public property and rights-of-way without the written permission of the property owner and the consent of the engineer.
10. Operations entailing the use of vibratory hammers or compactors outside the hours of 8:00 a.m. and 5:00 p.m. or outside the hours allowed for construction by local ordinances or regulations.
11. Closing off clear access to any public alley, street, road, avenue, or boulevard without the prior consent of municipal officials and the engineer, and closing clear access:
  - by fire protection equipment and emergency vehicles;
  - by the public to any commercial or professional place of business, quasi-public or public establishment, or residence; or
  - by vehicles to driveways without providing alternate access.