

Best Management Practices for Combined Sewer Overflows

1. CSO Maintenance / Inspection

- a) The Village of Medina has 10 permitted Combined Sewer Overflows. There is currently 9 active, CSO number 3 has been eliminated. They are inspected on a weekly basis. Any required cleaning, weir repair or other problems are reported to the Superintendent or Deputy Superintendent of Public Works for proper action. A written inspection program is on file at the WWTP and is included in this report.
- b) During wet weather flows the sewer system is inspected for any bottlenecks, obstructions or abnormal sewer levels.
- c) The Village of Medina schedules root cutting during the spring and fall in the interceptor lines down stream of the overflows and in other areas as needed.
- d) The Village utilizes its own sewer television equipment to inspect sewer mains when a problem or abnormal flow is discovered during one of the inspections mentioned above.
- e) Combined Sewer Overflows are removed when possible in designing replacement sewer projects. These projects call for the separation of sanitary sewer and storm sewer.

2. Maximum use of the collection system for storage

- a) The Village of Medina schedules root cutting during the spring and fall in the interceptor lines down stream of the overflows and in other areas as needed.
- b) Flushing and grit removal is performed with a vacuum flushing unit. This removes the grit from the pipe, increasing the storage and flow capabilities of the pipe. The grit is disposed of at the sewage treatment facility.
- c) Sandbags and ditching have been used to prevent storm water runoff from entering the sanitary sewer system during heavy rain storms.
- d) The Village utilizes its own sewer television equipment to inspect sewer mains when a problem or abnormal flow is discovered during one of the inspections mentioned above. The Village also televises sections of the sewer system for infiltration and flow obstructions.
- e) A “Wet Weather Operation Plan” has been submitted and will be updated as necessary.

3. Industrial Pretreatment.

- a) The Village of Medina adopted a sewer use ordinance setting the standards for discharge into the Village's sewer system.
- b) There is currently no one that requires a pre-treatment process that is connected to the sewer system.
- c) A ground water remediation project is taking place at the former Fisher-Price property on Park Ave. in the Village. Their pumping system was required to have automatic controls installed to prevent any discharge during a wet weather condition. This has been installed and is functioning properly.

4. Maximization of flow to the POTW for treatment.

- a) Levels in the inflow pipe to the treatment plant are visually checked for indications of flow restrictions.
- b) The diversion weirs are checked to maintain maximum flow to the primary treatment section and secondary treatment sections.
- c) The flume and incoming pipe are checked for grit and debris to maximize flow into the plant.
- d) There are no unused treatment facilities at the plant that can be used to store wet weather flows.
- e) The Village of Medina schedules root cutting during the spring and fall in the interceptor lines down stream of the overflows and in other areas as needed.
- f) The Village of Medina completed an upgrade to the Waste Water Treatment Plan in 1985 bringing the designed flow of the plant to 5 MGD Primary Treatment and an additional 5 MGD Secondary Treatment for a total capacity of 10 MGD. The average flow to the treatment plant in dry weather is less than 2 MGD.

5. Wet Weather Operating Plan

- a) A "Wet Weather Operation Plan" has been submitted and will be updated as necessary.

6. Elimination of CSOs during dry weather

- a) The Village of Medina has 9 active Combined Sewer Overflows. They are inspected on a weekly basis. Any required cleaning, weir repair or other problems are reported to the Superintendent or Deputy Superintendent of Public Works for proper action. A written inspection program is on file at the WWTP and is included in this report.
- b) The Village of Medina schedules root cutting during the spring and fall in the interceptor lines down stream of the overflows and in other areas as needed.
- c) All dry weather overflows are reported to the NYSDEC when discovered by the Village crews or reported by the public. The initial report is a phone call that a Dry Weather Overflow has occurred and that crews are on the way or already on site to rectify the situation. A follow up call is placed to the NYSDEC on the actions that were taken to alleviate the overflow. A letter is also sent to the NYSDEC as to what actions were taken.
- d) Flushing and grit removal is performed with a vacuum flushing unit. This removes the grit from the pipe, increasing the storage and flow capabilities of the pipe. The grit is disposed of at the sewage treatment facility.
- e) The Village utilizes its own sewer television equipment to inspect sewer mains when a problem or abnormal flow is discovered during one of the inspections mentioned above.
- f) The Village of Medina adopted a sewer use ordinance in 1985 prohibiting the connection of sump pumps, roof drains, floor drains, foundation drains, area surface drains, etc. to the sanitary sewer system.

7. Control of solid and floatable materials in CSOs

- a) The Village uses a vacuum technology sweeper to sweep all streets. The sweeper is operated almost daily from mid April until mid November. Its operation is dependent on the ambient air temperature being warm enough to keep the unit from freezing.
- b) Catch basins are cleaned on a rotating schedule with a minimum of one third of the basins cleaned each year. If the department work load allows, more than one third of the basins may be cleaned, we try to clean all the basins every year if manpower allows.
- c) A majority of the catch basins have traps in the line, some have baffles and some have siphons.
- d) Waste Recycling is practiced in the village.
- e) Each spring several community groups devote a Saturday in the spring to clean up the roadsides, parking areas and other off street areas.
- f) A reminder about the benefits of water conservation is sent to the residents of the Village in the Annual Water Quality Report.
- g) Trash receptacles are placed in the Central Business District from spring to late fall. They are removed during the winter because of snow removal.

8. Combined Sewer System Replacement

- a) The Village is currently updating mapping of the sewer system showing all separate systems, sanitary and storm, as well as the combined areas using ESRI ArcGIS.
- b) The Village is not planning any combined sewer system replacement.
- c) The Village makes every attempt to separate the storm and sanitary sewers when a project is undertaken.
- d) Currently plans are being developed to rebuild North St. This will consist of new separate storm and sanitary sewer systems. The street currently has a combined system.

9. Combined Sewer / Extension

- a) The Village does not plan on expanding any combined sewer systems.
- b) The Village is currently updating mapping of the sewer system showing all separate systems, sanitary and storm, as well as the combined areas using ESRI ArcGIS.

10. Connection Prohibitions

- a) The Village of Medina adopted a sewer use ordinance in 1985 prohibiting the connection of sump pumps, roof drains, floor drains, foundation drains, area surface drains, etc. to the sanitary sewer system.
- b) The Village of Medina completed an upgrade to the Waste Water Treatment Plant in 1985 bringing the designed flow of the plant to 5 MGD Primary Treatment and an additional 5 MGD Secondary Treatment for a total capacity of 10 MGD. The average flow to the treatment plant in dry weather is less than 2 MGD.

11. Septage and Hauled Waste

- a) The Village currently does not allow any waste or septage to be accepted at the Waste Water Treatment Plant or any where else in the sewer system. If in case of an emergency there is a dedicated dumping spot at head of the WWTP. There is no CSO down stream of this spot. It enters directly into the plant.

12. Control of Run-off

- a) The Village requires a Storm Water Pollution Prevention Plan be submitted to the Planning Board for review of any land use project.
- b) A reminder about the benefits of water conservation is sent to the residents of the Village in the Annual Water Quality Report.
- c) The Village performs an annual leaf pickup in the fall.
- d) Litter laws are enforced by the Village of Medina Police Department.
- e) A Household Hazardous Waste collection program is conducted by Orleans County.

13. Public Notification

- a) There are no beach areas or swimming areas adjacent to, or down stream from any of our CSOs.
- b) The average duration of a CSO is relatively short.
- c) News Paper Publishing - The notification of an overflow that took place at 9:00 am on a Tuesday would not be available to the local residents through the local paper until 10:00 am on Wednesday. The occurrence of an overflow at 1:00 am on a Friday morning would not be available to the public through the local paper until 10:00 am on Monday morning.
- d) There are no local television or radio stations.
- e) If a CSO of a long duration were to occur, the Village of Medina would publish notification in the local paper of the affected areas and hand deliver fliers to the residents where necessary. A copy of the flier is included in this report.
- f) Signs are placed at the known outfall locations. The current permit does not require a written public notification plan.
- g) The monthly DMR showing the CSO inspections are on file in the Village of Medina Clerk's Office and Lee-Whedon Memorial Library.

14. Characterization and Monitoring

- a) There has never been any reported or known fish kills in the receiving waters of the Village of Medina CSOs.
- b) In the past we have experienced less than four (4) CSOs per year. These were due to extreme rain events
- c) There has never been a report or complaint of washed up floatables.
- d) The visual inspection of the CSOs during an overflow occurrence from heavy rain and/or snow melt is performed on a sporadic basis.
- e) The Village of Medina has a limited amount of manpower to devote to the observations of these overflows. The use of this manpower is more effective in checking the sewer system for bottlenecks, blockages and infiltration. The major goal is to improve the flow in the system, reduce the amount of basement backups and minimize the flow from the CSOs.
- f) If sufficient manpower is available the duration of the overflows will be recorded.
- g) Daily incoming flows and rainfall are recorded at the Waste Water Treatment Plant.
- h) If funding allows more recording rain fall gauges will be installed in other areas of the Village.
- i) There has been no sampling of the outfalls during a rain event. The observed flows coming from the outfalls during a rain event show clear water with little if any floatables or solids.

Notice

**A discharge of untreated
sewage has occurred
upstream of this property.
The waters should not be used
for swimming or recreation
until notice is received that it
is suitable to do so.**

**Please contact the Village of
Medina Public Works
Department at 798-1790 if you
have any questions.**

Current Combined Sewer Overflows

- 1. South Main Street at William Street OVERFLOW 1**
Latitude 43 Deg 12 Min 35 Sec
Longitude 078 Deg 23 Min 11 Sec
Receiving Waters: Oak Orchard Creek Class “C”
- 2. Orient Street East of South Main Street OVERFLOW 2A**
Latitude 43 Deg 12 Min 48 Sec
Longitude 078 Deg 23 Min 01 Sec
Receiving Waters: Oak Orchard Creek Class “C”
- 3. Highland Avenue at Elm Street OVERFLOW 2B**
Latitude 43 Deg 12 Min 46 Sec
Longitude 078 Deg 23 Min 10 Sec
Receiving Waters: Oak Orchard Creek Class “C”
- 4. ~~Orient Street North of Overflow 2A~~ ~~OVERFLOW 3~~**
Latitude 43 Deg 12 Min 51 Sec *Eliminated*
Longitude 078 Deg 22 Min 59 Sec
Receiving Waters: Oak Orchard Creek Class “C”
- 5. Erie Street South of the Canal OVERFLOW 5A**
Latitude 43 Deg 13 Min 24 Sec
Longitude 078 Deg 24 Min 02 Sec
Receiving Waters: Barge Canal Class “C”
- 6. Davis Avenue at West Center Street OVERFLOW 5B**
Latitude 43 Deg 13 Min 14 Sec
Longitude 078 Deg 24 Min 19 Sec
Receiving Waters: Barge Canal Class “C”
- 7. Ohio Street South of the Canal OVERFLOW 6**
Latitude 43 Deg 13 Min 29 Sec
Longitude 078 Deg 23 Min 49 Sec
Receiving Waters: Barge Canal Class “C”

8. Glenwood Avenue North of the Canal OVERFLOW 8A

Latitude 43 Deg 13 Min 34 Sec

Longitude 078 Deg 23 Min 17 Sec

Receiving Waters: Oak Orchard Creek Class "C"

9. Old Mill Lane (Short Street) at Orient Street OVERFLOW 8B

Latitude 43 Deg 13 Min 09 Sec

Longitude 078 Deg 23 Min 00 Sec

Receiving Waters: Oak Orchard Creek Class "C"

10. Glenwood Avenue at Oak Street OVERFLOW 9

Latitude 43 Deg 13 Min 50 Sec

Longitude 078 Deg 23 Min 19 Sec

Receiving Waters: Oak Orchard Creek Class "C"