

ERIE COUNTY
DEPARTMENT OF ENVIRONMENTAL SERVICES
BI-MONTHLY REPORT
June 25, 2015

WASTEWATER PROJECTS

BAY VIEW SEWER PROJECT

Erie County is pursuing the construction of a sanitary sewer system to service the Village of Bay View. The Health Department has determined bacteria pollution in the waters surrounding Bay View attributed to failing on-site wastewater systems in Bay View and surrounding areas which contributes to the Lake Erie algae issue. Poggemeyer Design Group (PDG) did a study in 1999 of how best to provide a public sanitary sewer system for Bay View, Crystal Rock and Whites Landing areas. The Health Department had PDG update the study. The study proposes a central gravity sewer collection system pumping the Village wastewater to Sandusky for conveyance and treatment to the Sandusky Wastewater Plant. The estimated cost for the Bay View Collection System is now estimated to be \$7 million. The County under a Sewer Service Agreement with Bay View will own, operate and maintain this system.

The City of Sandusky and Erie County approved on October 4, 2012 a Sewer Service Agreement Amendment to allow Erie County to connect to the city's thirty inch (30") diameter sanitary sewer located at the intersection of Venice Road and Thorpe Drive with the new Bay View wastewater forcemain.

Sources of secured funds for this project include: OEPA Grant-\$25,000; USDA Rural Development Grant-\$2,911,900; USDA Rural Development Loan-\$3,035,000 (40 year term at 2.625% interest) and CDBG W&S Grant-\$500,000 and Block Grant \$100,000. We are waiting on final approval for the U.S. STAG Grant-\$500,000.

HURON SEWER REHABILITATION PROJECT - 2014

Erie County has received a 50% OPWC Grant not to exceed \$233,582 for lining sewers and manholes in three separate locations in the Huron Sewer system. These areas consist of: (1) along Lake Erie shore between Pittsburgh St to Canton St; (2) south part of Huron Lagoons on Riverside and Wheeler Drive areas; and (3) sewer line connecting between Chaska Beach and Beachwood Subdivision. Bid opening for this project was August 7, 2014. We received 5 bids and the project contract was approved for the low bidder United Survey of Cleveland, Ohio on September 18, 2014 at a price of \$287,934.00. Construction is underway, the sewers have been cleaned, internally inspected, and eight areas in the sewers needed to be chemically grouted to stop water flow at holes and joints before lining installation can start at an estimated additional cost of \$11,000. Sewer liners are scheduled for installation for the month of December followed by manhole lining. The construction improvements have been completed and final payment and Certificate of Substantial Completion is being processed.

BAY WINDS DRIVE/MAUI SANDS SEWER IMPROVEMENTS

ODOT is planning intersection improvements at US 250 and at Wal-Mart entrance across from Bay Winds Drive/Maui Sands entrance. We did not complete the Maui Sands TIF sewer improvements because we did not know the design of the entrance for this intersection. ODOT has now provided this design and we hope using Maui Sands TIF funds to complete this project timely before ODOT intersection improvements proceed. John Hancock & Associates are 70% complete with the design. We are proceeding with applying for ODOT and EPA permits for this improvement. We hope to advertise for bid by March 1st for construction completion by June 1st. Estimated construction cost is \$75,000.

SAWMILL CREEK WASTEWATER TREATMENT PLANT PRIMARY SCREEN REPLACEMENT SCOPE:

Erie County has received an OPWC SCIP Grant for 50% of the cost to replace the existing primary screen at the Sawmill Creek Wastewater Plant. New screen will need to fit in an existing concrete open channel, vertically lift screenings approximately 30.5' to approximately 7' above the top of existing structure, the addition of a masonry building (12'Wx40'Lx12'H) on top of the existing structure, heat, odor control, material handling of screenings and ability to remove new screen, replacement of 2-6" diameter magnetic flow meters for RAS and WAS. The estimated total project cost is \$350,000. Scheduling includes design and bidding documents to be completed by August 1, 2015, bid phase completed by October 1, 2015, and construction completion by March 1, 2016. Currently proceeding to complete the selection of an engineering firm using Quality Based Selection.

WASTEWATER PROJECTS (Continued)

SANITARY SEWER IMPROVEMENTS FROM MITTAWANGA TO HURON SEWER SYSTEM: This project will include the construction of a sanitary sewer system to convey Mittawanga wastewater to the Huron Basin for treatment and the elimination of the Mittawanga wastewater plant. Improvements will be divided into two sections.

Section A will consist of the replacement of the existing 12" diameter forcemain from "A" Street pump station to the Huron Basin Plant with a new 16' forcemain. The estimated total project cost is \$600,000. Project schedule: design and bidding documents completed by August 1, 2015, permits and approvals for project completed by November 1, 2015, bid phase completed by February 1, 2016, and construction completion by May 1, 2016.

Section B improvements will include a system of gravity sewers, pump stations and forcemains from Mittawanga Wastewater Plant to connect to an existing 18" gravity sewer in Huron near the intersection of Cleveland Road and Gateway Boulevard (Beachwood area). Un-sewered areas along Cleveland Road between SR 61 and Huron will be served by these new sewers including Lands End, Hartley Beach, Oberlin Beach, Mirheath Drive and Freeman Lane areas. The estimated total project cost is \$3,500,000. Project schedule: design and bidding documents completed by December 1, 2015, permits and approvals for project completed by February 1, 2016, easement acquisitions completed by July 1, 2016; bid phase completed by September 1, 2016, and construction completion by September 1, 2017. Currently proceeding to selection of an engineering firm using Quality Based Selection.

HURON BASIN WASTEWATER PLANT SLUDGE DEWATERING AND PRIMARY SCREEN IMPROVEMENTS:

The installation of a centrifuge dewatering system to be located in a garage bay addition (70'x25'), set up for one centrifuge and the future addition of a second centrifuge. Centrifuges will be sized for 3,000,000 million gallons per year of 4% solids sludge dewatered to approximately 30% solids sludge cake to pass a paint filter test and disposed of via roll-off containers/truck at the Erie County Landfill. Also, the installation of a second primary screen in the headworks building. Channel is already setup for the new screen. The estimated total project cost is \$1,500,000. Project schedule: design and bidding documents completed by December 1, 2015, permits and approvals for project completed by February 1, 2016, bid phase completed by September 1, 2016, and construction completion by September 1, 2017. Currently proceeding to selection of an engineering firm using Quality Based Selection.

MARSHALL AVENUE WASTEWATER PUMP STATION CAPACITY INCREASE: Evaluate, design thru construction to increase the wet weather pumping capacity of the existing Marshall Avenue Wastewater Pump Station. Current pump station is a submersible pump station with 3 pumps that pump through a 2,500 lineal feet long 10" diameter forcemain to the Campbell Street gravity sewer. An increase of 400 gpm of additional flow capacity is needed at this pump station to reduce SSO violations in the upstream sewer system. The County's desire is to utilize the existing pump station and forcemain. The estimated total project cost is \$100,000. Project schedule: design and bidding documents completed by August 1, 2015, bid phase completed by November 1, 2015, and construction completion by April 1, 2016. Currently proceeding to selection of an engineering firm using Quality Based Selection.

WATER PROJECTS

HURON RYE BEACH ROAD WATER BOOSTER PUMP STATION

Erie County has hired Poggemeyer Design Group to provide professional services for the installation of a new Huron water connection with booster pump station to increase pressure in the Boos Road water line to provide improved fire protection to BGSU Fireland's Campus and surrounding service area. Revised bids were opened on October 30, 2014. We received 2 bids and contract was awarded to low bidder Speer Brothers on November 16, 2014 at a price of \$509,150. The new Pump Station has been installed and is scheduled to be put in service the week of June 22, 2015.

RELOCATE HARRIS ROAD WATER TOWER TO VILLAGE OF BAY VIEW WITH DISTRIBUTION

IMPROVEMENTS SCOPE: Dismantle into 3 to 4 sections an existing 100,000 gallon CBI designed and constructed single pedestal spheroid water tower constructed in 1988, demo foundation, install new foundation and erect this water tower at Village of Bay View location, install new foundation, clean and paint water tower, install pressure regulator along SR269 (Martins Point Rd) near SR 6 intersection to reduce water line pressure to approximately 65 psi in the Village of Bay View, install approximately 2,200 lineal feet of 12" diameter water line from Martin's Point Rd to new water tower site, install approximately 12 new water line valves in Bay View water distribution system in key locations to better isolate water line breaks in future. Also the installation of a pressure regulator at SR60 and Darrow Road in Vermillion Township in an existing 10" diameter water line to reduce pressure from 85 psi to 65 psi. The estimated total project cost is \$370,000. Project schedule: design and bidding documents completed by December 1, 2015, permits and easement by February 1, 2016, bid phase completed by April 1, 2016, and construction completion by December 31, 2016. Currently proceeding to selection of an engineering firm using Quality Based Selection.

ODOT PROJECTS

US250 at Bogart Road-Lindsley Ditch Project – ODOT is planning to install a new culvert at Lindsley Ditch under Bogart Road as part of the US 250 at Bogart Road project requiring the relocation of an existing 12" water line. Since Bogart Road is a County Road, not an ODOT right-of-way, ODOT has advised they will relocate the 12" water line at no cost to the County.

LANDFILL PROJECT

We will evaluate the layout of a new entrance to the Landfill consisting of a scale setup to allow incoming and outgoing traffic weighed in separate lanes or 2-way traffic, including a new scale house, service garage, pavement improvements and improved storm water drainage management. A new scale is anticipated to be installed in 2015 following the new entrance layout.

SOLID WASTE, RECYCLING & LITTER PREVENTION

Since the only Bid that came back for the Erie County Consortium was from Republic Waste Services, the District has been working with Ohio EPA on options to move Erie County forward with meeting the goals of the State Plan. Ohio EPA stated we can update our Service Provider Agreements to state that trash and recycling must be provided at one cost to all of Erie County Residents. A similar program has been set up at the Warren County Solid Waste Management District. Their document is called Performance Obligation and Ohio EPA asked the District to compare the document with our Service Provider Agreements to design a program that works for Erie County. Ohio EPA would like the District to continue to aid/promote any community that would like to implement a contract for curbside trash and recycling. Eastman & Smith will be updating the Service Provider Agreement and reviewing the District Rules. Both documents will be referred to in the next Solid Waste Management Plan.

The District has turned in the Annual District Report to Ohio EPA and the District has met Goal #1 and #2 of the Ohio EPA State Solid Waste Plan. The Goals state:

- Goal #1: Infrastructure – The District shall ensure that there is adequate infrastructure to give residents and commercial businesses opportunities to recycle solid waste.

- Goal #2: Waste Reduction and Recycling Rates – The District shall reduce and recycle at least 25% of the solid waste generated by the residential/commercial sector and at least 66% of the solid waste generated by the industrial sector.
 - Residential/Commercial Waste Reduction and Recycling Rates for 2014 – 36%
 - Industrial Waste Reduction and Recycling Rates for 2014 – 88%

District Highlights over the past 9 years (2006-2015):

- Increased recycling rates 21% from
- Revenues have increased from \$376,000 to \$894,000
- Decreased expenses by 28%
- No longer relies on the Landfill to subsidize recycling programs