

PUBLIC WORKS OPERATIONS

MONTHLY ACTIVITY REPORT

APRIL 2019

STREETS & FLEET

Road Construction Crew -

| | |
|-------------------------------------|---|
| Disc Golf Trail | Several punch list items are being completed in advance of the grand opening in June. |
| Storm Sewer Basins | Catch basin repairs in Fox Run, Old Towne, and the Woodlands have been completed prior to the resurfacing program getting started. |
| DPW Expansion Site | Assisted the drilling rig with gaining access to multiple locations on the hillside. Their drill rig couldn't navigate various points on the hill, so we had to level several areas. |
| Street Sweeping | All roads on the resurfacing program have been swept plus all the other roads in the housing plan not affected by the resurfacing program. |
| Pothole Duty | Multiple crews have been assigned to fill potholes throughout the Township. |
| Winter Equipment | Most of the winter equipment has been removed, cleaned and greased then placed into storage for the summer months. The remainder of the equipment will be addressed when time permits between projects. |
| Turfgrass Dr – Gate | Assisted with conduit installation for the electronic gate that is getting transferred from BCTP to the golf course. Worked with Gary to layout the footer locations for the gate. |
| 47 Monmouth Storm Inspection | 47 Monmouth Dr – contractor has been hired to clean and video inspect the failing storm sewer pipe that runs along the front of six condominiums. |

Fleet Maintenance (Scheduled) -

| Vehicle or Equip. | Description of Work |
|-------------------------------|---|
| Athey - Sweeper | Repaired rear broom assembly and modified drag shoes |
| Bobcat – T300 | Replaced track rollers and muffler prior to transferring to Turfgrass |
| CAT M318 - Excavator | Replaced leaking hydraulic lines and couplers |
| Dodge Charger - 463 | Replaced leaking radiator |
| FD - Engine 21-3 | Replaced starter and wiring |
| FD - FP21 | Repaired leaking fuel lines |
| LandPride - Power Rake | Replaced broken drive chain |
| Mack - 1639 | Installed new trailer glad-hand connectors |
| Peterbilt - 1626 | Replaced hydraulic pump and AC condenser, then charged AC |
| Peterbilt - 1626 | Welded Flink V-box salt spreader and repaired screen grates |
| Ventrac Mower - #1 | Welded muffler bracket and repaired oil leaks |
| Ventrac Mower - #3 | Tuned up – was running rough |

Streets & Fleet (continued)

| Preventive Maintenance Program | | | State Inspections | |
|---------------------------------------|-----------|--|--------------------------|-----------|
| Cars | 21 | | Cars & Trucks | 15 |
| Trucks | 4 | | | |
| Equipment | 12 | | Trailers | 2 |

TRAFFIC, COMMUNICATION & SIGNS

| | |
|---|---|
| Signs - | |
| Sign Maintenance | Sign work this month included some new signs, as well as maintenance on existing signs. |
| Signal Operations - | |
| Detection Wiring | Staff has installed wiring to modify the stop-bar radar at RT 228/Cranberry Woods. Manufacturer reps were onsite to analyze some minor occlusion issues and recommended the update. |
| Centracs OS Update | The <i>Centracs Operating Software Database</i> has been updated to the newest version to continue our proactive operations. This update will allow us to test some new opportunities in the Econolite platform. |
| Electrical - | |
| Public Works Fleet Lights | Fleet Lights at the PW Operations garage have updated to LED technology for better, more energy efficient lighting. Additional savings will be allowed for with the use of motion sensor activation. |
| Waterpark Lighting | In preparation for the delivery of new poles and lights the old light poles were removed. New poles and lights are to be shipped the first full week of May and will be installed ASAP to allow for the late May pool opening. |
| Locating | The recent Utility work by COMCAST Communications has provided a significant uptick in locating services. While the fiber is located via a third party contracted service, Twp. traffic staff provide locating for all of our traffic signal and electrical infrastructure. |
| Communications - | |
| BCTP Fiber | Staff worked with contractors at the BCTP to relocate the fiber optic platform as part of the treatment plant control room update. |
| Miscellaneous Fiber & Communications | Staff have completed several communications updates to assist our IT Dept with some new initiatives at the pool, Public Works and the Municipal Building |

Facilities

| | |
|--------------------------------------|--|
| | |
| Municipal Building | Work is in progress on the 41 rooftop HVAC units for spring PM work. |
| | |
| Graham Park | Hung a large plaque for the Miracle league |
| WaterPark | Removed the swinging windows on the second entrance to the pool. |
| | Installed two new double hung style windows. |
| | Removed and relocated the existing counter 14" deeper towards the inside to allow for the permanent placement of the electronic equipment. Electronics had to be moved at closing every night to allow the windows to be closed and locked. |
| | The new block for the divider wall between the baby and adult pools is being delivered on Tuesday 5/23. Removal of the existing block has been done. All new blocks will be treated with a water repellent before and after installation to help slow down or stop the deterioration |
| Park Fire Station | Replacing two water solenoid valves on the large gear washer for laundering of the fireman's equipment. |
| Work Orders & Room Setups | Numerous work orders both reactive and scheduled, along with room setups are being done. |
| | |

Operations Engineer

| | |
|--|--|
| PROJECT: <i>ADAPTIVE TRAFFIC SIGNAL TECHNOLOGY</i> | |
| Description: | ARLE and GLG Grant Projects to add adaptive technology to the traffic signal system automatically “adapt” the traffic signal based on the traffic conditions. |
| Update: | Rochester Rd (Thomson Park to Haine School) – Fully Adaptive (October 2016). Freedom Rd (Commonwealth) to Rt 228 (Cranberry Springs) – Adaptive Activated Feb 6, 2019. Rt 19 (Turnpike to Rowan) – Test mode of new Edaptive Software Spring 2019. Freedom Rd (Powell) to Rt 228 (Franklin) – Installation and adaptive 2019. |
| PROJECT: <i>ROUTE 19 & ST. FRANCIS WAY SIGNAL UPGRADE</i> | |
| Description: | GLG Grant for replacement of traffic signal to current standards including pedestrian and ADA facilities. Local project oversight. |
| Update: | PennDOT Approved. Project awarded. Traffic signal poles ordered. Anticipated construction July-August 2019. |
| PROJECT MANAGEMENT: <i>PUBLIC WORKS OPERATIONS</i> | |
| BCWTP: | Punch List Close Out |
| Disc Golf: | Punch List Close Out |
| Fiber Locate: | Route 19 |
| Municipal Fleet Lot: | Modifications for additional Police Spaces and numbering |
| PennDot Coord: | Freedom/Turnpike Bridge Project, I79 Bridge Replacement at N. Boundary |
| Roadbotics: | Assist Paving Program: 5-year paving plan Development |
| Slow Down: | Campaign Coordination: June 7-20, August 27- Sept 10 |
| Speed Study: | Scenic Ridge |

Operations Engineer (continued)

| | | |
|--|---|------------|
| | | |
| Pending Award Notifications (Submission Date): | | |
| ARLE2018: | SR19 & FIRE STATION UPGRADE (6/29/18) | |
| ARLE2018: | FREEDOM ROAD AT EXECUTIVE DRIVE INTERSECTION IMPROVEMENTS (6/29/18) | |
| GLG2018: | SR19 & WALMART DRIVE/SHORT STREET SIGNAL UPGRADE (1/11/19) | |
| AWARDS | | |
| SINC-UP ROUND 4: | ROUTE 19, ROCHESTER, FREEDOM RT 228 (12/14/18) | |
| BID UPDATES | | |
| AWARDED: | CONTRACT NO. 19-02 – SUPERPAVE STREET RESURFACING 2019 | |
| | CONTRACT NO. 19-03 – SEAL COATING 2019 | |
| | CONTRACT NO. 19-04 – MICRO-SURFACING 2019 | |
| | CONTRACT NO. 19-05 – CRACK SEALING 2019 | |
| BID OPENING 3/20/19: | ROUTE 19 & ST. FRANCIS WAY SIGNAL UPGRADE | |
| PROJECT PLAN REVIEWS – Engineering / Traffic | | |
| PLANNING COMMISSION | 5 | April 2019 |
| BOARD OF SUPERVISORS | 5 | |
| AS-PER PLANS | 1 | |
| BOND RELEASES | 3 | |

| |
|-------------|
| BCTP |
|-------------|

| ATAD Sump Pump 3/17/2019 | Plant staff repaired ATAD second stage sump pump | |
|---|--|---|
| Chemical Feed Piping 3/18/2019 | Plant operators-initiated demo/replacement of DW/SH chemical feed piping; this is an ongoing project that will be fill in work around construction activities. | |
| MBR Train 1 Faults 3/23/2019 | Plant staff experienced numerous MBR train 1 faults – Biological growth in turbidity meter sample line is suspected as the cause. Other trains are also experiencing the same phenomena. It is anticipated that once full flow MBR is complete, this issue may be reduced. | |
| MBR Air Compressor 3/24/2019 | Plant staff troubleshot MBR air compressor #2 fault. It was also leaking oil and the issues has been directed to the contractor | |
| Rotary Drum Thickeners 3/26/2019 | Plant staff participated in a third startup and testing period of the rotary drum thickeners | |
| Primary Clarifiers #1 & #2 3/28/2019 | Plant operators began check out and repairs to primary clarifiers #1 &2 for startup, replaced wear strips, flights etc. this will allow the contractor to perform work on the primary 3&4 inlet gates | |
| Odor Control Unit 4/3/2019 | Plant staff replaced the carbon media in the odor control unit | |
| Air Header 4/5/2019 | Staff reinstalled rebuilt air header in south primary influent channel | |
| Franklin Acres Pump Station | No Operational Issues | |
| Briar Creek Pump Sta. | No Operational Issues | |
| Wolfe Run Pump Sta. | No Operational Issues | |
| Water Supply | 3/23/2019 | Received a call from a customer with black specs in water, suggested that they flush hot water tank . |

Sewer & Water Field

| Date | Job/Project Description |
|--|--|
| Haine School Road 3/21/2019 | S&W Field personnel along with State Pipe Services opened a clogged sewer main in the rear of 1575 Haine School Road. |
| Skyview Drive – Fox Run 3/27/2019 | |
| Route 19 Damaged Sewer Line 3/29/2019 | Excavated and repaired a leak on a shared one-inch water service road crossing for 715 & 717 Skyview Drive in the Fox Run plan of homes. |
| Route 19 Damaged Sewer Line 3/29/2019 | Responded to a damaged sewer line call caused by a trenchless excavation/boring contractor installing conduit at 20315 Route 19. The contractor subcontracted the repair work out and Hatch Engineering inspected the work. |
| Fernway Pressure Pit Maintenance 4/10/2019 | Personnel replaced an eight (8) inch and four (4) inch isolation valve in the Fernway pressure pit on the Freedom Road end of Robinhood Drive. |
| Sanitary Sewer Flow Meters 4/11/2019 | |
| Sanitary Sewer Flow Meters 4/11/2019 | S&W Field personnel along with KWM Controls, Inc. calibrated the three (3) Marshall Township sewer flow meters as well as the New Sewickley Danbury Farms sewer meter. |
| Victory Church Area–Water Main 4/11/2019 | Excavated and repaired a leak on the twelve (12) inch water main near 21150 Route (Victory Church). A trenchless excavation/boring contractor struck the line. |
| Victory Church Area–Water Main 4/11/2019 | |
| Cranberry Crossrds. & Interceptor 12 4/12/2019 | State Pipe Services conducted sewer line cleaning and grease removal in the Cranberry Crossroad development and Interceptor Twelve (12) along Route 228. This completes the springtime line cleaning/grease removal. |
| Cranberry Crossrds. & Interceptor 12 4/12/2019 | |
| Mars Rd – Water Main Leak 4/14/2019 | Excavated and repaired a leak on the twelve (12) inch water main along Mars Road between Jessica Drive and Grandshire Drive. |
| Mars Rd – Water Main Leak 4/14/2019 | |
| Progress Avenue Main-Leak Repair 4/15/2019 | Personnel excavated and repaired a leak on the six (6) inch main near 8 Progress Avenue (Fun for All). |
| Progress Avenue Main-Leak Repair 4/15/2019 | |
| Water Quality - Auto Hydrant Flushing Devices 4/16/2019 | S&W Field personnel installed four automatic hydrant flushing devices to assist in water quality. The locations are 22030 Route 19 (Nissan Dealership), near 349 Steeplechase Drive in Ehrman Farms, Glen-Rape Road just past the entrance to the Wakefield Estates plan of homes and near the soccer fields within Graham Park. |
| Water Quality - Auto Hydrant Flushing Devices 4/16/2019 | |

Pretreatment

| | | |
|---|---|---|
| FOG | Updates | 3.1 miles of spring FOG mainline cleaning has been completed by State Pipe Services. |
| | | Increasing FOG cleaning frequency for permitted users within high FOG areas . |
| | | Began grease trap installation steps for nine permitted users that currently do not have traps. |
| | | Adopting " Swift Comply ", a FOG management software, to aid in Cranberry Township's growing FOG Program. Will promote better oversight and active relations between FOG users and the Township. |
| I & I | Evaluating flow data for Sun Valley, Manorline and Woodland Estates housing plans. | |
| | Smoke testing pilot project in Fox Run has been delayed until dry weather is seen for at least three days to ensure effective test results. | |
| Kawneer | Reviewing Kawneer's wastewater permit for completeness in anticipation for its renewal in May of 2019. Permit will be used as template for all other Industrial Users within the Township. | |
| | Ordering Hach Aluminum field testing kit to determine baseline AI levels for Kawneer. | |
| Marshall Twp. | Sewer investigation report filed for Mercury spill that occurred at U.S. Postal facility. Mercury was captured and collected within facility and transported offsite. | |
| | 2,690 ft. of mainline pipe had CCTV screening done to prepare for CIPP lining. Most of the work took place in the Thorn Hill Industrial Park . | |
| Cranberry Highlands Community Apiary | Apiary website is now live on the Cranberry Township website under Cranberry Highlands Audubon section. | |
| | Cranberry Township communal honey bee colonies are currently in Homewood until apiary grounds are established. | |
| | Communications team is developing the apiary logo, sponsorship sign and educational sign design . | |
| | The Green Team is organizing an apiary fundraising event for this year's community days. | |
| Additional Items | Attended PRWA Conference | |