

# PUBLIC WORKS OPERATIONS

## MONTHLY ACTIVITY REPORT

*June 2019*

STREETS & FLEET	
<b>Road Construction Crew -</b>	
<b>Deck hockey bleachers</b>	Moved storm sewer and created foundation pad for bleachers to be installed.
<b>Resurfacing Program</b>	Chip sealing and crack sealing are completed. Resurfacing program is half complete.
<b>Pothole Duty and basin top clearing</b>	Multiple crews have been assigned to pothole duty and clearing basin tops of debris so storm water can flow.
<b>Disc Golf Trail</b>	Fairways were mowed in advance of the Grand Opening in June.
<b>Storm Sewer basins</b>	Repairs to basin in Orchard Park, The Woodlands and Sun Valley have be completed.
<b>Video Inspected storm lines on Monmouth Dr</b>	Insight pipe contractor video inspected storm lines at 144 Fox Run, 9568 Peter Rd and 3205 Unionville Rd.
<b>Fleet Maintenance (Scheduled) -</b>	
Vehicle or Equip. Repairs Description of Work	
1642 Mack	Received new dump truck, checked all specs, adjusted cameras, removed snow equipment
Bobcat T300 skidsteer	Repaired wiring harness and hydraulic leak
Bobcat T870 skidsteer	Charged AC system
Garbage Getter	Towed back to shop from pool for repairs
1629 Peterbilt	Replaced rusted front bumper
1628 Peterbilt	Replaced AC dryer and charged system
1611 Terrastar	New starter and brakes
1714 Ford F250	Replaced brakes
Trailblazer	Repaired tire leak
John Deere boom mower	Replaced hose and coolant
1701 Chevy	Replaced inner door handle
465 Charger	Voltage issues with equipment
467 Tahoe	Replaced entire exhaust system
PD fleet	Performed monthly PM's
Ventrac Mowers	Various mowers repaired and rebuilt decks

Preventive Maintenance Program		State Inspections	
<b>Cars</b>	<b>10</b>	<b>Cars &amp; Trucks</b>	<b>8</b>
<b>Trucks</b>	<b>4</b>		
<b>Equipment</b>	<b>3</b>	<b>Trailers</b>	<b>1</b>

**GROUNDS**

<b>North Boundary Park</b>	Disc Golf opened at North Boundary Park and grounds staff will play a large role in the daily maintenance of course. Setting up for Goatscape at North Boundary Park the week of June 17 <sup>th</sup> .
<b>Parks Inclusive</b>	Preparing for community days with grounds improvements and purchasing supplies. Full summer staff with both grounds crews. Grounds crew attempting to keep grass mowed with above average rainfall. Special projects are being completed while grounds are too wet to mow.

**TRAFFIC, COMMUNICATION & SIGNS****Signs –**

<b>Sign Maintenance</b>	Sign updates and repairs are routinely performed.
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**Signal Operations -**

<b>Detection Update</b>	Replaced the Stop Bar Detection with an Upgraded Smart Micro Systems 3D Radar to provide a more dependable platform. This upgrade was sponsored by the Manufacturer Rep at no cost to the Township.
<b>LPR Wiring</b>	Staff have started to install the necessary cabling for the License Plate Reading Cameras at RT 228 and RT 79 NB and SB Ramps.
<b>Intermunicipal</b>	Assisted Marshall Twp. with resolving a Detection issue at Commonwealth/Thorn Hill Ext that was causing multiple service complaints. Marshall Road Dept pruned several tree branches to allow for better detection.

**Communications -**

<b>Fiber Updates</b>	Working on developing a Fiber Optic Backbone to service the South Water Tank using Road Row through the new Laurel Point Development.
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**Electrical -**

<b>Pool Area</b>	Installed wiring for a new Outdoor Monitor near the Concession stand at the Waterpark.
<b>Police Dept.</b>	Currently installing Power and Data for wireless links and monitors in the Police Squad Room.
<b>Locating</b>	Participated in several workshops dedicated to understanding recent updates in Locating principals and Liabilities on being a Utility owner.

**OPERATIONS ENGINEER****PROJECT: ADAPTIVE TRAFFIC SIGNAL TECHNOLOGY**

<b>Description:</b>	Currently completing Route 228 and Freedom Road Corridor to add adaptive technology to the traffic signal system automatically “adapt” the traffic signal based on the traffic conditions. Route 19 to test new Edaptive software.
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**PROJECT: ROUTE 19 & ST. FRANCIS WAY SIGNAL UPGRADE**

**Operations Engineer continued**

<b>Description:</b>	Signal Pole delivery expected in August 2019 for GLG Grant for replacement of traffic signal to current standards including pedestrian and ADA facilities with local project oversight.
<b>PROJECT MANAGEMENT:</b> <i>PUBLIC WORKS OPERATIONS</i>	
<b>PennDOT Coord</b>	Twop PM - Freedom/Turnpike Bridge Project, I79 Bridge replacement at N. Boundary
<b>Paving Program</b>	Assist paving program: 5-year paving plan Development/Roadbotics
<b>Slow Down</b>	PM Campaign: June 7-20, August 27- Sept 10
<b>Fernway</b>	PM Traffic portion of "Neighborhood Plan"
<b>One Call</b>	Township Protocol and Oversight
<b>Speed Studies</b>	Scenic Ridge, Settlers Grove, TIS Review – Ehrman Rod School
<b>Engineering</b>	PM Coordinate Eng Projects with PW (Makerspace, Community Garden, Dek Hockey Bleachers)

**FACILITIES**

<b>Municipal Building</b>	Continuing to empty the Teen area of the library to prepare for August construction start on the new Maker Space. All wall shelving and bookcases have been disassembled and moved to storage in a rental trailer at the rear of the Municipal bldg. The affected teen space was setup in the N. Franklin room to minimize the impact during construction. Relocation of the circulation desk has been scheduled for 6/27/17 in coordination with IT and electrical depts. Track lighting has been received for CAN's artwork displays along the tenant hallway; installation is being completed congruently with the Martini's with Monet event on 7/10/19.
<b>Park Fire Station</b>	Working with the new Deputy Director on the finalizing and commissioning of the newly renovated Park Fire Station.
<b>Water Park</b>	Acid cleaned UV sanitizer lights for the three pools. Problems with the power supplies we are working on now. Lights have a five-year warranty and the manufacturer has been contacted. Under water quartz marcite repair mortar has been received to patch a couple areas at the bottom and side of the pool where it has cracked and popped.
<b>Brush Creek Treatment Plant</b>	Finalized the monitoring service for the plant fire alarm system through Guardian Protection. Working through getting the original sub-panels cleared and out of an alarm or trouble state for the final inspection. Newly installed panels are displaying trouble in the devices. Trying to work with EC until we have been trained on the new equipment. Finalized wiring and setup of the intercom and access control for the new gate.
<b>Highlands Club House</b>	Made repairs on the walk-in freezer from a power outage. Outage caused damage to the electrical contractor and fan cycle switch which were replaced. Quotes for a replacement were obtained and passed to the appropriate personnel for capital budget consideration. Working to replace existing sconce lighting and ceiling fans on the clubhouse pavilion. Existing are in poor condition, rusted and not adequate for this application. Quote has been obtained and presented. We will proceed based upon acceptance.
<b>Preventive Maintenance</b>	Both server room Liebert HVAC system have had preventive maintenance completed. Chemical FM-200 fire suppression systems have had the six-month inspections.
<b>Work Orders &amp; Room Setups</b>	Work orders both reactive and scheduled along with room setups are being done.

<b>BCTP</b>	
5/15/16	Industrial Waste Control completed sludge removal from old main and aux wet wells, this will allow Mascaro to complete demolition work of the main station.
5/21/19	Plant staff completed installing new chemical feed piping brackets at the primary clarifier inlet channel.
5/22/19	A chemical leak in the ATAD odor building caused a short in the electrical wiring which caused minor damaged the water softener power supply along with the power supply to the belt press polymer feed panel.
5/28-29	A rainfall event prompted staff to operate the plant from 6:00 p.m. Tuesday through 3:30 Thursday (total rainfall 3.62 inches).
5/29	Loss of new influent pump 124 occurred at 3:30 a.m., the pump was operating normally before it tripped out on an over current alarm. A temporary pump is being installed while the pump is evaluated by the manufacturer along with pumps 122 and 123.
6/2/19	A rain fall event prompted operators to staff the plant till 5:50 p.m. on Sunday (total rainfall 0.98 inches).
6/2/19	Operators along with Lanco Electric troubleshoot programming issue with IPS pump sequencing.
6/6/19	The carbon filter duct heater was placed out of service, while staff working on acquiring parts.
6/9/19	An odor complaint received from resident on Woodbine Drive, advised the customer of the carbon heat issue and the housekeeping issue at the IPS bar screen roll door.
<b>Franklin Acres Pump Station</b>	<p>6/1/19 During routing morning rounds a plant operator noticed that Franklin Acres pump #1 was running hot, the operator took the pump out of service until it could be further troubleshoot on Monday.</p> <p>6/3/19 FAPS pump #2 failure at 4:00 a.m., staff found plastic dog toy in check valve. It was removed. Pump # 1 was also evaluated and returned to service.</p> <p>6/8/19 A commercial power failure occurred at the Franklin Acres Lift station, plant staff responded for pump failures and a high wet well alarm, upon arrival they found that the step-down transformer to the pump control panel was damaged (most likely related to a power surging issues) Staff made temporary repairs and retuned the station back to normal duty.</p>
<b>Briar Creek Pump Sta.</b>	No operational issues.
<b>Wolfe Run Pump Sta.</b>	No operational issues.
<b>Water Supply</b>	West view switched to chloramination disinfection on 6/4/19 for the summer months.

SEWER & WATER FIELD	
Date	Job/Project Description
5/30/2019	Water service line relocation - lowered a service line at 1309 Freedom Road in conjunction with the Freedom Road/Turnpike Bridge project.
6/4/19	I&I Flow monitor data was downloaded, and QA/QC performed by TECsmith, Inc.
6/12/19	Water main line relocation - lowered a six-inch water main near 1294 Freedom Road in conjunction with the Freedom Road/Turnpike project.
6/17/19	Began the ten-week Annual Water Distribution System Flushing program.
6/21/19	Sewer flow meters – field personnel and KWM Controls conducted meter calibrations at the three Marshall Township sewer meter sites as well as the New Sewickley/Danbury Farms sewer meter site.
Valve Box Maintenance	Over the past month field personnel have been locating and marking valve boxes in conjunction with the Township's Road Paving program as well as the Annual Water Distribution System Flushing program.
Hydrant Maintenance	Over the past month field personnel have been conducting hydrant maintenance throughout the Township.

PRETREATMENT	
FOG Updates	Cranberry Highlands grease trap serviced. Evaluating Swift Comply modules to fit Billing, GIS, Permitting, and inspection needs for the Township.
FOG New Construction	Atria/Personal Care Facility- passed initial interceptor inspection. Cranberry Springs Buildings- passed initial interceptor inspection.
I & I	Completed Fox Run pilot project report.
Industrial Pretreatment	Interior dog park wastes plan approved- 1 Alps Avenue.
	Submitted draft MAHL sampling plan to consultant.
	Finalizing Kawneer's new permit limitations that meet EPA's standards for the aluminum forming industrial pretreatment category.
	Evaluated Kawneer Aluminum samples for permit limit.
Water	Attended lead and copper rule training.
	Collected lead and copper compliance samples.
Cranberry Highlands Community Apiary	Construction of apiary is near completion. Honey Bees will be moved onsite last week in June. First "Open Apiary" class scheduled for Saturday, July 27 <sup>th</sup> .
Additional Items	Partook in the Seneca Valley School District volunteer day. Participated in MS4 training.