

FREDERICK COUNTY SANITARY DISTRICT OF SHAWNEELAND

MANAGER'S REPORT – AUGUST 2020

GEI

In my last manager's report dated April 2020 I spoke about the County approved contractor General Excavating Incorporated or GEI doing some work for the Sanitary District.

The project began on April 13, 2020 and was completed on May 15, 2020. The scope of work included the following:

- Maple Trail- replaced and upgraded an existing 18" x 45' metal culvert with a 24" x 45' metal culvert. This culvert came from our own stock.
- Jalapa Trail- replaced and upgraded an existing 30" x 40' metal culvert with an HDPE 36" x 40' culvert.
- Ponds- GEI stabilized and grouted the inlet ends of the pipes at both ponds. They also grouted the spillway sections of both ponds. This was repaired because of cracking and erosion in the 20-year-old existing grout. Joe Wilder, The Public Works Director and I deemed it necessary to rip rap the spillway below the bottom pond due to continued erosion. We had GEI armor the spillway with the free rip rap from the new citizens convenience site in Albin. This material was provided to the Sanitary District by the Public Works Department and hauled to Shawneeland by GEI at no cost.

The rest of the project consisted of cleaning out 840' of large culverts with a Vac truck. These pipes were located on the following trails: Tomahawk, Duwamish, Erie and Cherokee. The heavy debris build up in the large pipes over the last 20 years was extensive. The bottom of each culvert had developed some large rust holes over the years from constant water and sediment friction. The bottom of the large pipes then received a thick layer of grout for the purpose of extending the life of these culvert for many years to come. The estimated cost from GEI before the project began was \$81,181.30. The final cost for the entire project came in at \$88,107.36. The cost was slightly higher because of the added work for the spillway below the ponds and additional grout required on the grouted part of the spillway.

The Public Works Director, Joe Wilder provided an additional 60 tons of rip rap and 120 tons of fill dirt last month from the new citizens site in Albin. Again, the materials were hauled to Shawneeland by GEI at no cost.

STAFF WORK

The Shawneeland staff started the grader patching project on May 19th. We are currently working on this project and have spot patched 19 trails to this point in anticipation of the upcoming T-C program. Staff has placed 839.73 tons of asphalt as of 7/23/2020. We will continue the patching project and prepare all the trails to receive the tar and chip treatment this fall. The staff will continue to grader patch trails that need done before the winter months arrive. I anticipate this project will last until the middle of October.

In addition to the grader patching project we are continuing to mow and weed eat the common grounds. We are also cutting along the trails on the right of ways with the sickle bar cutter and will continue doing these activities as we can until the grass stops growing this fall. We are also doing ditch work as time allows in various locations throughout Shawneeland. Staff is also continuing to do all of the other things in our daily operations such as installing an occasional driveway culvert, install street signs as needed, test the beach water every week, pick up trash from our 9 locations two times per week, etc.

DUSTING THE ROADS

With the extreme temperatures as of late we have been forced to dust several of the heavier traveled trails on a regular basis. If left untreated the tires on vehicles traveling on this surface would pick up the very sticky tar. This liquid would then be displaced onto that vehicle. At the same time this would also start to deteriorate the road surface. To keep either one of these scenarios from happening we dust the roads as a preventive measure.

BEACH

Due to the Covid-19 pandemic the beach opened late this year. I was told on June 25th that we would be allowed to open the beach for the swimming season beginning July 1st. The staff spent 12 hours doing what we normally spend 25 hours doing. We opened the beach at noon on July 1st. The beach was very safe for usage but was not up to the standard that I like when opening the beach for the year. On July 6th the staff hauled in sand and did a little more work during the morning hours. Staff will continue to monitor the beach for any problems that need to be addressed regarding maintenance issues.

The lake level has dropped dramatically over the last 3 weeks. The lake was minus 10 inches when we opened the beach. It is now minus 33 inches due to the dry weather as of late.

TAR-CHIP PROJECT

The IFB for the Tar and Chip program was sent to the Frederick County Finance Department on July 17th. Once a contractor has been selected to do the project, I will post the specifics at the mail houses. The Tar and Chip project should begin in the middle part of September and is scheduled to be completed by September 30th. The Tar and Chip schedule I sent to the Finance Department includes 9.96 miles of trails to be done. My original list included 11.75 miles of trails to be done. But after reevaluating the trails as I always do, I adjusted accordingly. A list of the Tar and Chip roads and a map is attached.

You may encounter the Tar and Chip crew working during the month of September. You will see that it is quite an operation. The amount of equipment and manpower it takes to complete this project is impressive. Typically, the crew consist of 16 to 17 crew members. 1 foreman, 2 flagmen, 2 oil trucks, 2 rollers, 1 chip box with 3 crew members, 5 haul trucks and 1 loader. Please be safe while traveling through the work zone.

RAINY DAY DUTIES

It has been stated that the Shawneeland crew has nothing to do on days that it rains. In some construction jobs this may be the case. The rain can affect some construction crews in a negative

manner. However, in the case of the Shawneeland staff this is very much the opposite. Rainy days are often some of our busiest days.

The Shawneeland staff is very diverse in the fact that we have lots of skills outside of mowing and weed eating. Actually, only 20% of our time is spent mowing and weed eating. We do almost all the PMs and preventive maintenance on our equipment on rainy days. This includes oil and filter changes from pickup trucks to dump trucks to motor graders. We do most of the work on the brake system on these vehicles. We change belts, hoses, lights, repair leaks, etc. We do most of the welding on our equipment on rainy days.

Rainy days are the perfect time to check for drainage issues and make repairs if we can during this time. This a good time to replace broken or stolen street signs, Stop signs, etc. While drive the trails we look for potential problems or safety issues such as dead trees, potholes, low shoulders, etc.

We utilize rainy days to make our own street signs, purchase shop supplies, purchase office supplies, or haul aggregate from the quarry to restock for upcoming projects. We use rainy days to clean the two mail houses, the bus stops, and the maintenance shop. The list I have on my desk is much longer than all that I have mentioned here.

The reality is that rainy days are truly some of our busiest days.

SHORT STAFFED

For a good portion of the spring and summer we have been short staffed. This is the same situation we were in this time last year. Some of the daily operations may start to fall behind because of this situation.

Trail Name & Square Yards for the Tar & Chip Project

<u>Name of Trail</u>	<u>Square Yards</u>
1. Apache	3,022
2. Bear	7,733
3. Birch	1,173
4. Cherokee	3,283
5. Cochise	6,755
6. Cub	1,991
7. Dogwood	4,356
8. Duwamish	7,324
9. Erie	3,796
10. Fir	768
11. Firewood	1,002
12. Gilmore	1,422
13. Goldwood	3,200
14. Hickory	6,107
15. Juniper	1,600
16. Locust	533
17. Pine	2,053
18. Rockwood	5,520
19. Rosenberger	693
20. Timber Ridge	15,235
21. Willow	2,261
22. Wolf Spring	10,880
23. 2-Parking Lots	3,184
Total Sq. Yards of Trails and Parking Lots:	93,891

