



Local Landslides and Weather Related Issues

Veteran's Affairs and Emergency Preparedness
Committee Hearing
September 18, 2018

HAMPTON TOWNSHIP



- ▲ After five months of long detours for area motorists, Joseph B. Fay Co. of Tarentum, a PennDOT subcontractor, recently finished \$2.6 million in repairs to the formerly sinking south shoulder of Wildwood Road.
- ▲ Eighteen days ahead of schedule, the busy state road reopened October 31, 2016.
- ▲ Each day, approximately 8,229 vehicles use Wildwood Road, according to PennDOT statistics.
- ▲ During Wildwood Road's five-month closure, which began June 2, 2016, motorists used a five-mile detour.
- ▲ During the summer, dirt and debris removed from the repair site helped to expand the school district's parking lot opposite Fridley Field, at no cost to the school district.
- ▲ Fay expanded the parking lot by 20 spaces in exchange for permission to use the parking lot as a receiving area for debris removed from the Wildwood Road repair site.

Photo (bottom) and Text Excerpts
Pittsburgh Tribune Review
Friday, November 4, 2016

HARRISON TOWNSHIP

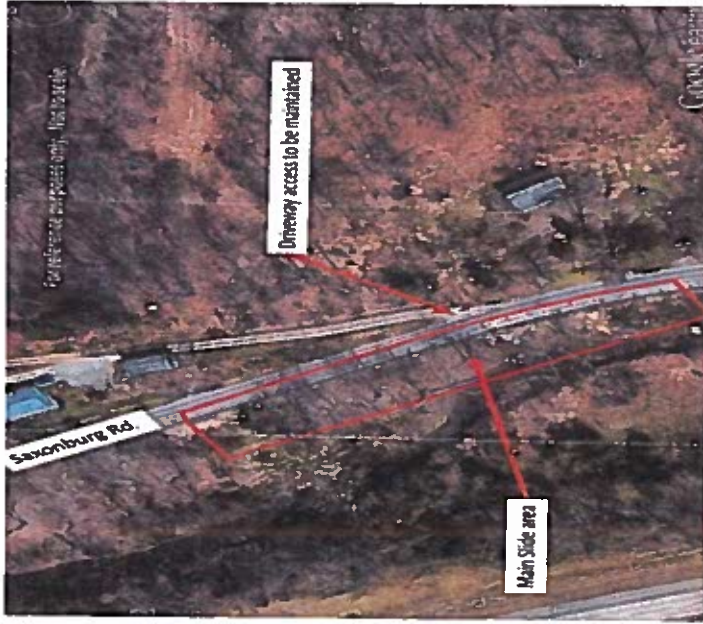
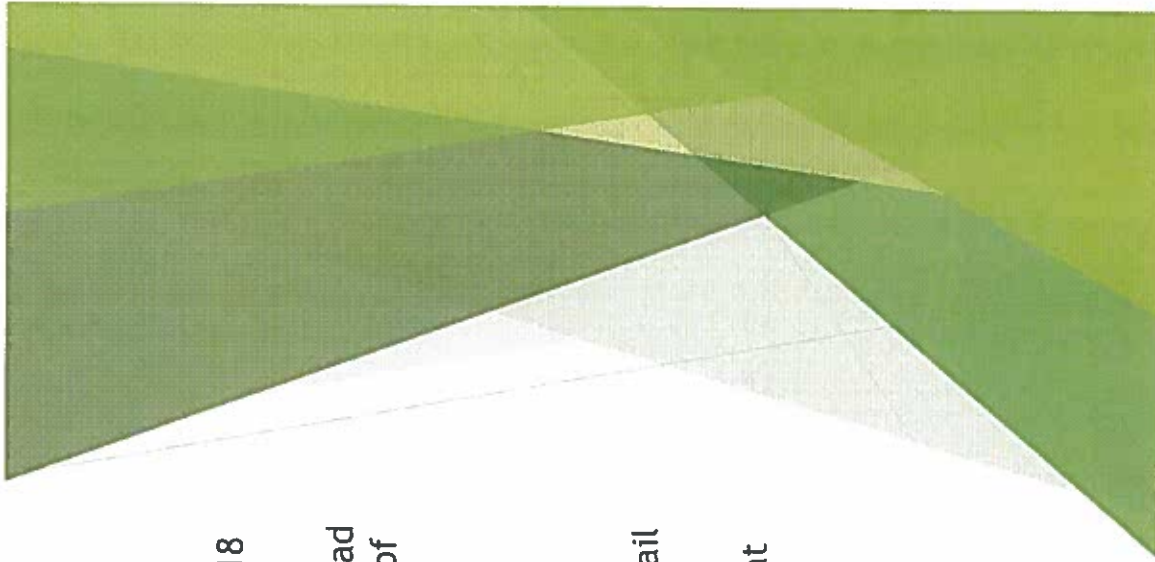


Photo and Text Excerpts
Pittsburgh Tribune Review
Monday, March 12, 2018

- ▲ A small section of Saxonburg Road in Harrison Township closed in March 2018 to fix a landslide.
- ▲ Repairs required closing Saxonburg Road in the area of Dlubak Lane and north of Dlubak Powder Coatings.
- ▲ Work was completed in July 2018.
- ▲ In addition to fixing the slide, work included utility relocation, drainage improvements, pavement, and guardrail repairs.
- ▲ The road was completely closed in that area and traffic was detoured. Local driveway access was maintained.
- ▲ The detour used Freeport Road and Route 908 (Bakerstown/Millerstown Road).



MILLVALE BOROUGH

Spring Street

- ▶ Disaster Declaration filed June 11, 2018. Slide was identified in late May, originating on private property in Reserve Township, owned by Catholic cemeteries. The soil, rock and vegetation slide was affecting 4 structures and 2 properties in Millvale.
- ▶ The Spring street slide is part of an ancient slide with a continued weakening soil base.
- ▶ The Borough began working with Reserve Township and Catholic cemeteries as soon as the slide was identified. The Borough also acted as a conduit to identify property owners affected by the slide and aid Catholic cemeteries in securing easements to properties. In the early morning of June 11 the slide worsened after several days of heavy downpours. 4 structures were inspected and condemned the same day. After condemnation, the Borough petitioned the Court for right of way to all 6 structures, which was granted. Catholic cemeteries reached separate agreements with structure owners. All structures and properties were secured and then ultimately removed to remediate the slide.
- ▶ Currently, Catholic cemeteries continues to repair the slide area in Reserve and Millvale. A final engineering plan is not in place but should be finalized soon.

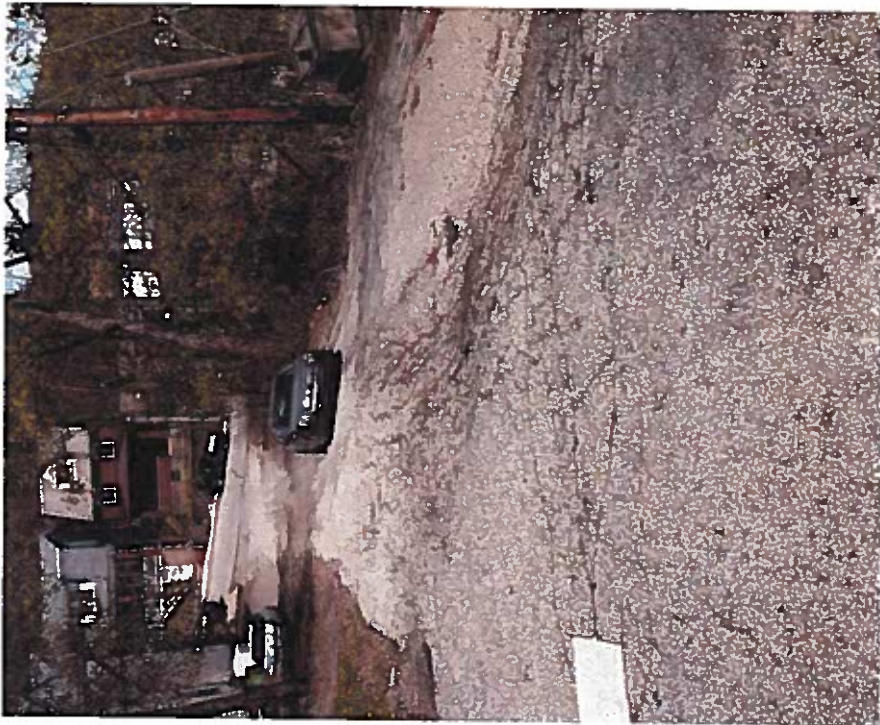
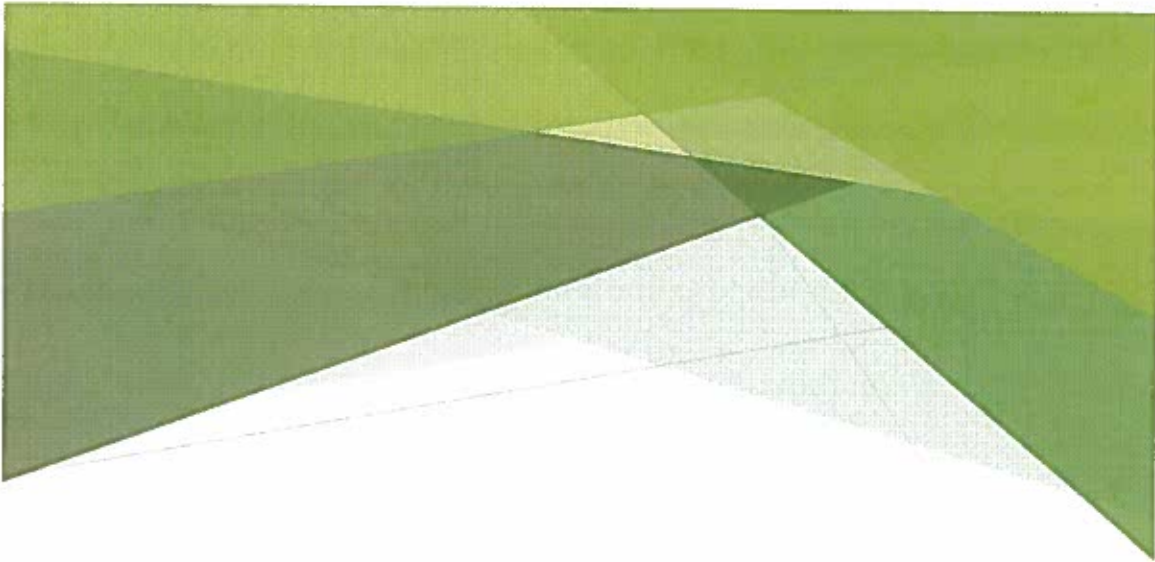
Spring Street



Millvale Borough

Mary Street

- ▶ Disaster Declaration filed on February 26, 2018. Slide is effecting Public Street and has caused brush and soil to move in the yard of 614 Mary Street. The soil slide on Mary Street is also effecting 559 Spruce Street, which is below Mary and by way of location threatened by soil, trees, rock and manmade structures from the slope above.
- ▶ Mary Street is located on an ancient landslide mapped in 1979. The entire hillside is identified as having susceptible soils that are continually weakening.
- ▶ Slide was first discovered as spalling of the roadway. Upon further investigation of the area surrounding the roadway it was determined that soil and trees had been impacted on the lower side of the roadway. Gateway Engineers, the Borough engineer was contacted and assessed the site. The road was closed and covered to prevent water from compromising the spalling. It was recommended to the owner of 559 Spruce Street that the potential for further sliding was present; it was further recommended that the property be vacated for safety purposes but this was a recommendation and no legal action was taken.
- ▶ Borough Engineers and the Public Works crew monitored the site. Additionally, Gateway Engineers prepared remediation alternatives and costs. He Borough applied for and received a DCED grant for 64,000 in June of 2018. Grant funds are being used to study the slides through boring holes and continued data collection. Once complete the study will recommend proper remediation efforts to be undertaken. At this time, no funding is available for remediation.



Mary Street



O'HARA TOWNSHIP

Squaw Valley Park
Adaptive Playground



Old Freeport Road Area



O'Hara Township

Estimates for storm damage to Township property

▲ Powers Run sanitary sewer \$65,000.	▲ Squaw Valley fencing \$3,450.
▲ Eton Drive storm pipe \$38,144.	▲ Squaw Valley Baseball Fields \$27,000.
▲ Division Street storm pipe \$89,280.	▲ Squaw Valley adaptive playground \$65,000.
▲ Ravine Street storm pipe \$92,580.	▲ Squaw Valley Pedestrian Bridges \$3,000.
▲ Westchester storm pipe \$93,000.	▲ Squaw Valley surfaces \$7,500.
▲ Robinhood Drive storm pipe TBD	▲ Grove Street paving \$19,000.
▲ Harding Road stabilization TBD	▲ Lower Road Paving \$3,000.
▲ Squaw Run retaining wall \$55,000	▲ Dumpsters for residential cleanup \$11,500.
▲ Squaw Valley Tennis Courts \$5,000.	▲ Tree removal \$3,000.
▲ Squaw Valley Pond \$10,000	▲ Electrical service at Woodland Park \$900.
▲ Squaw Valley trail \$70,000.	

Total cost estimate of private property damage is unavailable.



Reserve Township

- On February 16, 2018 Reserve Township endured a major landslide due to bad weather conditions.
- Not only did it impact the community as a whole, it inconvenienced over 65 homes near the area. Alternate routes needed to be made for those residents, as well as for all emergency vehicles.
- Reserve Township has reached out for assistance on a Federal and State level. They have applied for many grants but they are still pending.
- After months of assessing, core boring and plan drawing, the estimated cost of this construction project could reach \$3.4 million.

RESERVE TOWNSHIP



ROSS TOWNSHIP

Crider Hill Road

- **Location**
 - 250 ft section of pavement along the western side of the road approximately 450 ft north of its intersection with Babcock Blvd
- **Date of Slide**
 - May 10, 2018
- **Cause**
 - Water main break
- **Impact to Community**
 - One-lane of the road was closed resulting in a 60 ft section of alternating traffic
- **Expected Completion of Repair**
 - November 30, 2018
- **Estimated Costs**
 - Construction – \$150,000
 - Engineering -- \$25,000
 - Road Restoration (sub-base and paving) – \$75,000
 - **Total – \$250,000**



ROSS TOWNSHIP

Jacks Run Road

- **Location**
 - 200 ft section of pavement along the southern side of the road approximately 300 ft east of its intersection with Longmount Drive
- **Date of Slide**
 - July 5, 2018
- **Cause**
 - Flooding
- **Impact to Community**
 - One-lane of the road is closed resulting in a 200 ft section of alternating traffic
- **Expected Completion of Repair**
 - October 15, 2018
- **Estimated Costs**
 - Construction – \$117,800
 - Engineering -- \$13,000
 - Road Restoration (paving) – \$15,000
 - **Total – \$145,800**



ROSS TOWNSHIP

Sunny Drive

- **Location**
 - 50 ft section of pavement along the southern side of the road approximately 275 ft west of its intersection with Reis Run Road
- **Date of Slide**
 - April 8, 2018
- **Cause**
 - The roadway had begun to slip the previous year, however, the water-logged soil acted as the catalyst to the road sliding over the hill
- **Impact to Community**
 - One-lane of the road was closed resulting in a 50 ft section of alternating traffic on Sunny Drive; however, the slide also caused an 80 ft one lane closure on Reis Run Road, a state road, with high levels of traffic. The Township had to place temporary traffic signals on Reis Run to alleviate the numerous back-ups caused by the alternating one lane traffic
- **Expected Completion of Repair**
 - October 31, 2018
- **Estimated Costs**
 - Construction – \$325,000
 - Engineering -- \$55,000
 - Traffic Control – \$20,000
 - Road Restoration (paving) – \$25,000
 - Total – \$625,000



ROSS TOWNSHIP

Nelson Run Road

- **Location**
 - 60 ft section of pavement along the western side of the road approximately 550 ft north of its intersection with Brethauer Avenue
- **Date of Slide**
 - February 16, 2018
- **Cause**
 - Water-logged soil
- **Impact to Community**
 - One-lane of the road was closed resulting in a 60 ft section of alternating traffic
- **Expected Completion of Repair**
 - October 1, 2018
- **Estimated Costs**
 - Construction – \$263,400
 - Engineering – \$25,000
 - Road Restoration (sub-base and paving) – \$45,000
 - **Total – \$333,400**



SHALER TOWNSHIP



- ▶ A privately owned property located in the 200 Block of Kittanning Street has experienced a significant landslide onto a state highway, Kittanning Street/Pike.
- ▶ PennDot has responded to clean up the area.
- ▶ The landslide currently affects four homes with a shared driveway.
- ▶ The extent of the landslide is beyond the owner's ability to expend the finances to fix the landslide.

