

**City of Green – NEXUS Environmental Observations**

Date: 10/12/2018

Environmental Inspector(s): *Ad Zil James St*

Weather & Soil Conditions: Partly sunny; 47°F; 5-10 mph winds; wet soils

Observed from: Road R/W Within NEXUS R/W

Item/Location	BMPs	Y	N	N/A	Notes
Street Cleaning	Street Cleaning Evident	X			Regular Street cleaning evident. Street cleaning observed on Koons Rd and Arlington Rd during the walk-through.
	No Tracking Observed	X			
	Street Cleaning Equipment Staged	X			
Rock Entrances	Properly Topdressed	X			
	Check Dams in Ditchline	X			
Sediment Control Devices	Properly Installed	X			Maintenance of erosion/sediment control devices ongoing (*see notes for details).
	Functional	X			
	No Maintenance Recommended		X		
	No Additional SCD Recommended	X			
Stabilization Timeframes	No Areas Idle >14 Days	X			
	No Areas Near S and W Idle	X			
	No Additional TS Recommended	X			
Equipment Bridges	Fabric and Sideboards Intact	X			
	Equipment Gates Installed	X			
	Free of Sediment	X			
	No Maintenance Recommended	X			
Streams and Wetlands	Equipment Bridge Installed (S)	X			All stream and wetland crossings had been completed. Wetland A16-1 was awaiting backfill. Several stream and wetland crossings were awaiting final restoration.
	Filter Fabric and Sideboards	X			
	Timber Mats Utilized (W)	X			
	Equipment Gates Re-installed	X			
	E/SCDs Installed and Functional	X			
	SCD Reinstalled After Crossing	X			
	No Turbidity or Sedimentation	X			
Maintained R/W Restrictions	X				
General R/W	Good Housekeeping	X			Dewatering activity through filter bags and straw bale/filter fabric structures evident throughout the City of Green. All well-point systems had been demobilized. Pumps and fuel cans were stored in secondary containment near environmental resources. Waterbars, sumps, and J-hooks were installed and functioning. Signage remained partially installed and visible.
	Topsoil Segregated	X			
	E/SCD Functional	X			
	No SCD Maintenance Needed		X		
	Proper Dewatering	X			
	Water Bars Installed	X			
	RUMA Signage Installed	X			
	S&W Signage Installed	X			
Refueling Signage Installed	X				
Trenching And Lowering In	S&W Impacts Avoided			X	Tie-in activity (stream and wetland, driveway, and utility crossings, etc.) had been completed throughout the City of Green.
	Timber Matting Utilized	X			
	Entrances Topdressed	X			
	Street Cleaning Evident	X			
	Soil Stored Separate from Topsoil	X			
Trench Plugs Installed	X				
Restoration	Topsoil Topmost Layer	X			Cleanup and restoration in progress along the entire ROW.
	E/SCDs Reinstalled	X			
	No Areas Idle >14 Days	X			

**BMP:** Best Management Practice **CWC:** Concrete Wash Containment **DB:** Drivable Berm **EB:** Equipment Bridge **ECM:** Erosion Control Matting **EG:** Equipment Gate **E/SCD:** Erosion/Sediment Control Device **FS:** Filter Sock **GH:** Good Housekeeping **GR:** General Recommendation **H/SR:** Hard/Soft Restoration **IP:** Inlet Protection **MD:** Minimized Disturbance **PRT:** Potential Root Tree **RCE:** Rock Construction Entrance **S:** Stream **SB:** Straw Bale **SF:** Silt Fence **TM:** Timber Mat **TP:** Trench Plug **TS:** Temporary Stabilization **VB:** Vegetated Buffer **W:** Wetland **WB:** Water Bar **WSC:** Wet-saw Slurry Containment

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**Key Observations:** 1. Several stream crossings were awaiting bank stabilization. 2. Erosion and sediment control device maintenance required at multiple locations within the City of Green. 3. Minor slip observed on the slope west of Comet Rd.

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**Notes:**

A full site walk-through was performed with Randy Burke (Nexus). The entire project area within the City of Green was observed.

Tie-in activity had been completed throughout the City of Green. The trench had been backfilled along the entire R/W except in Wetland A16-1 near Mile Post (MP) 40.7.

Restoration had been completed along the ROW east of MP 37.1 (just east of Massillon Rd) except near MP 34.8. Sheet piling and timber matting removed, sediment controls re-installed, seed applied, straw applied to upland areas, and good germination observed.

ROW cleanup and restoration was in progress throughout the entire City of Green.

- Topsoil replacement and timber mat removal active near MP 34.8.
- Topsoil replacement in progress east of Massillon Rd near MP 37.3.
- Topsoil replacement in progress west of Massillon Rd near MP 37.7.
- Environmental crew replacing silt fence at MP 37.7.
- Topsoil replacement in progress west of S Arlington near MP 39.9.
- Crews grading subsoil and replacing topsoil south of Killinger Rd near MP 40.4.
- Backfill and ROW cleanup active near the Nimisila HDD location near MP 40.9.
- Subgrade completed and topsoil replaced sporadically throughout the remaining ROW west of MP 37.1 (Massillon Rd).

1. All stream and wetland crossings had been completed.

- Sediment control devices remained installed and functional along stream and wetland boundaries as needed.
  - Topsoil was segregated in wetlands and streams and backfilled as topmost layer.
  - Trench plugs had been installed at stream and wetland boundaries as needed prior to backfill.
  - Equipment bridges and timber matting continued to be utilized for equipment travel through wetlands and streams with equipment gates installed or staged for re-installation as needed.
- Wetland A16-1 and Stream A16-1-S1 crossing at MP 40.7 were awaiting sheet piling removal and backfill.
    - Topsoil segregated where possible.
    - Timber matting utilized for equipment travel.
    - River weights installed as needed.
    - Silt fence installed as needed.

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- Stream and wetland crossings properly restored following tie-in completion and awaiting timber mat removal and final cleanup.
  - A17-9-S1 (MP 34.9)
  - C15-120 S&W Complex (MP 37.4)
  - C15-123 (MP 38)
  - A17-5 S&W Complex (MP 38.3)
  - C15-113 (MP 38.7)
  - F15-1-S1 (MP 39.3)
  - A14-112-S1-A (MP 39.5)
  - A14-112 S&W Complex (MP 39.7 and 39.9)
  - B15-128 (MP 40)
  - A14-122 S&W Complex (MP 41.7 to 42.1)
- Restoration and final ROW cleanup completed in streams and wetlands east of Mile Post 37.1 (except stream at MP 34.9).
  - Topsoil segregated and backfilled as topmost layer.
  - Timber matting and bridges removed.
  - Sediment control devices re-installed as needed.
  - Wetland seed (Annual Rye per FERC) applied. Erosion Control Matting (ECM) installed along stream banks.
  - Good germination observed.

2. Sediment control maintenance was required at several locations within the City of Green following cleanup activity and at several streams and wetlands following tie-in completion. Randy Burke contacted Nexus EIs and some maintenance was underway during the walk-through. An environmental crew was observed replacing damaged silt fence at MP 37.7 during the walk-through.

- Banks of Stream C15-120-S1 at MP 37.4 awaiting ECM installation.
- Silt fence damaged in Wetland C15-120 at MP 37.5.
- Silt fence damaged at MP 37.8.
- J-Hook undercut at MP 38.3.
- Water bar and silt fence undercut, and minor sedimentation off ROW at MP 38.7.
- Minor sedimentation off ROW at MP 39.8.
- West boundary of Wetland A14-112 awaiting re-installation of silt fence at MP 39.9.
- Silt fence damaged at MP 40 in Wetland B15-128.
- Silt fence damaged at MPs 40.3, 40.5, 40.6, 40.7, and 41.

Erosion and sediment control maintenance items from the 09/21/2018 walk-through had been completed as needed since the last walk-through.

- Silt fence repaired at MP 36.1 in Wetland C15-104.
- Silt fence repaired at MP 37.5, 37.6, and 37.7 just west of Massillon Rd.
- Stream A17-5-S1 (MP 38.3) restored and good germination observed.
- Silt fence repaired and sedimentation off ROW cleaned up at MP 38.7.
- Silt fence repaired at MP 39.4.
- Silt fence repaired at MP 40.7.
- Silt fence repaired and sedimentation off ROW cleaned up at MP 41.5.
- Silt fence repaired at MP 41.6 just west of Comet Rd.
- Silt fence repaired at MP 41.8 and 41.9.

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3. Restoration had been completed and erosion control matting installed on the slope just west of Comet Rd since the last walk-through. A minor slip (migration of soil down the slope) was observed on the hillside. There are no current environmental issues as erosion control matting remained installed and no sedimentation issues were observed off ROW or within a wetland or stream at this location. This area will continue to be monitoring during site walk-throughs. Touch-up restoration may be needed to establish soil stability if the slip worsens and germination does not occur.

All well-point systems within the City of Green had been deconstructed and demobilized.

- Evidence of dewatering into filter bags and straw bale dewatering structures observed throughout the entire City of Green.
- Fuel cans and pumps for dewatering were stored in secondary containment near environmental resources.

De-couplers had been installed at Mile Posts 34.6, 34.8, 35, 35.2, 35.4, 35.5, 35.6, 36, 36.3, 36.4, 36.5, 36.8, 36.9, 41.4, 41.5, and 41.6.

Above-ground valve installation just north of Killinger Rd appeared completed. Concrete work and fencing installation completed.

Waterbars and drivable berms remained installed as needed along slopes and at stream and wetland boundaries as needed.

- Sumps and silt fence J-hooks remained installed at the low end of the waterbars to treat stormwater prior to it leaving the ROW. Sumps and J-hooks were functional and regular maintenance was evident.

Turtle Exclusion Fencing remained installed in Spotted Turtle Exclusion Areas.

- Wire fencing was utilized in areas of water flow to prevent flooding issues.
- Silt fencing had proper ground contact as needed.
- Turtle Exclusion fencing to remain installed until R/W re-vegetates per Randy Burke.

Regular street cleaning was evident throughout the entire City of Green. Street cleaning was observed at Koons Rd and on Arlington Rd with a power broom during the walk-through.

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General environmental observations from the site visit:

- Restoration was observed throughout the entire City of Green. Restoration had been completed east of Mile Post 37.1 except on the property near MP 38.1.
- Several stream and wetland crossings were awaiting backfill and restoration.
- All well-point systems had been deconstructed and demobilized.
- Sediment control device maintenance and re-installation was required at several locations along the ROW and Nexus EIs were notified same day.
- Regular street cleaning was evident throughout the entire City of Green.
- Silt fence and/or Belted Silt Retention Fence (reinforced silt fence) remained installed and functional along wetland and stream boundaries, within residential areas, and downslope of several agricultural fields.
- Timber mats remain installed at the equipment crossing locations of streams and wetlands. Temporary equipment gates were observed at stream and wetland crossings. Signage also mostly remained installed at the wetlands and streams which included refueling guidance due to the presence of environmental resources.