

City of Green – NEXUS Environmental Observations

Date: 04/20/2018

Environmental Inspector(s): Andrew Farber, Jessie Grund

Weather & Soil Conditions: Sunny; 47°F; 5-10 mph winds; wet/saturated soils

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

Item/Location	BMPs	Y	N	N/A	Notes
Street Cleaning	Street Cleaning Evident	X			
	No Tracking Observed	X			
	Street Cleaning Equipment Staged	X			
Rock Entrances	Properly Topdressed	X			*Additional topdressing of gravel entrances expected prior to construction start per Randy Burke (NEXUS).
	Check Dams in Ditchline	X			
Sediment Control Devices	Properly Installed	X			*Silt fence extended along the west side of Thursby Road and area stabilized (including the roadside ditch) with straw mulch since the last site visit. Roadside check dams not currently needed (see 04-09-18 observations)
	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 Streams were running clear. No sedimentation was observed into Streams or Wetlands along the entire R/W.
	Filter Fabric and Sideboards	X			
	Timber Mats Utilized (W)	X			
	Equipment Gates Re-installed	X			
	E/SCDs Installed and Functional	X			
	No Additional SCD Recommended	X			
	No Turbidity or Sedimentation	X			
Impacts Avoided	X				
General R/W	Wood Chip Disposal	X			*Great housekeeping observed along the entire R/W. Water bars, drivable berms, and sediment controls are installed and properly functioning with regular maintenance evident.
	Topsoil Segregated	X			
	E/SCD Functional	X			
	No SCD Maintenance Needed	X			
	Good Housekeeping	X			
	Water Bars Installed	X			
	Proper Dewatering	X			
	S&W Signage Installed	X			
Refueling Signage Installed	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 Roost 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

City of Green – NEXUS Environmental Observations

Key Observations: One section of silt fence at Wetland A15-91 immediately west of I-77 needs repaired where a hole was observed in the turtle exclusion zone. Randy Burke called an Environmental Inspector to ensure the area was identified on the NEXUS tracking document and confirmed it was.

*Responses to previous observations on 4/9/18 and 4/11/18 are below on page 3.

Notes:

A full site walk-through was performed with Randy Burke (NEXUS). The entire project area within the City of Green was covered during the site visit.

Onsite tree clearing crews were demobilizing at Mayfair Rd during the site visit.

- Crews were observed cleaning all equipment thoroughly prior to hauling it off R/W to prevent sediment tracking onto the roadway and to prevent transporting sediment to other locations.
- A power broom was staged for street cleaning with regular use evident. Streets were clean and free of sediment.

Great housekeeping was observed overall throughout the entire R/W.

All streams and wetlands remained avoided with excavation/grading activities.

- Stump grinding activity appeared to be avoided in wetlands and along stream banks.
- Erosion and sediment control devices were properly installed and functioning.
- No sedimentation was observed in streams or wetlands from clearing activities.
- The Nimisila Creek crossing will be a dry crossing (pump bypass) and will likely take place during low flow conditions in the summer per Randy Burke.

Erosion and sediment controls were properly installed and functioning as needed along the entire R/W.

- Regular maintenance of sediment control devices was evident.
- Silt fence and straw bale check dams were installed in drainage swales to prevent any potential erosion or sedimentation.
- BSRF (belted silt retention fence) is utilized in areas with surface water flow to allow better water transfer per Randy Burke.

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 Roost 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

*Previous Key Observations:

1. 04/09/2018 – Silt fence was extended along the west side of Thursby Road since the last site visit. Disturbances, including the roadside ditch, had been temporarily stabilized with straw mulch. This currently reduces the need for a check dam in the roadside ditch because the silt fence and straw mulch should prevent erosion and sedimentation as needed.
2. 04/09/2018 – Off R/W rutting on the west side of Christman Rd was caused by non-NEXUS work (likely First Energy during power line activity) per Randy Burke (NEXUS).
3. 04/11/2018 – Rock construction entrances, including the eastern Koons Rd crossing, will have additional gravel applied prior to increased ingress/egress per Randy Burke. Topdressing is only needed once the area becomes active again and no current issues exist.

General environmental observations from the site visit:

- The streets were free of sediment and street cleaning equipment was staged at many of the road crossings.
- Rock construction entrances at roadway ingress/egress points appeared to be in working condition.
- Silt fence and/or Belted Silt Retention Fence (reinforced silt fence) appeared to remain properly installed and functional along wetland and stream boundaries, within residential areas, and downslope of several agricultural fields. Additionally, some locations of silt fence had been reinforced with straw bales to provide extra support as needed.
- Temporary stabilization (straw mulch) was applied on idle topsoil piles. Temporary stabilization will also be utilized following the completion of all tree activities and prior to pipeline construction crews beginning work in May per Randy Burke (NEXUS).
- Timber mats remain installed at the equipment crossing locations of streams and wetlands. Temporary equipment gates were observed at all stream and wetland crossings that were visible from the roadway. Signage also remained installed at the wetlands and streams which included refueling guidance due to the presence of environmental resources.

Overall, our observations of the R/W were satisfactory. The R/W conditions met, and in some cases exceeded, what we would have expected to see relating to industry standards.