



Underground Facility Inspection Report					
Facility Name	Manassas Station Redev	Facility ID	STMF0091651	Type of Inspection: Initial Inspection	
Location	Lat: 38.908792 Long: -77.474171	Watershed	Rocky Branch-Broad Run	Previous 48 Hour Precipitation Total	0.35"
Materials available for inspection	N/A	Owner Notification Date		Owners/ Owner's Representative	Prince Properties, LLC
Inspectors	gky_mfreeman	Date of Inspection	6/29/2023	Date of Last Inspection	N/A
Overall Condition Score					
	1	Adequate	No deficiencies identified.		
	2	Monitor	No maintenance may be needed at the time, but might become an issue in the future. Will revisit next inspection. Examples include minor erosion, small sediment accumulation, or small structural issues of facility components.		
3	3	Routine Maintenance Needed	Facility is functional but preventative maintenance is required. Examples includes minor structural damage, minor erosion, or trash/debris removal.		
	4	Immediate Repair Needed	Facility is close to or currently not carrying out intended function. Examples include significant sediment accumulation , or structural component failure. Repair Immediately		
	N/A	Not Applicable	Does not pertain to this facility.		
Remarks					
Inspection Items					
Score	Description		Comment(s) / Corrective Action(s)	Reference Image	
Overall					
1	Inadequate access to complete thorough inspection				
1	Hazardous fumes present				
1	Surrounding drainage area trash/debris/unauthorized substances that might affect facility				
1	Surrounding drainage area erosion that might affect facility				
Inlets					
1	Buildup of trash, debris, and sediment				
1	Evidence of erosion or undermining around inlet				
1	Vegetation or other obstruction blocking inflow				
4	Damage to inlet pipe or structure		The lock and latch on the Bilco access door is broken. Repair the lock and latch so that the door can be closed and secured.	4525	
Chambers					
1	Sediment threshold, per manufactures' recommendation, has bee reached				
1	Trash/Debris accumulation				
1	Damage to chamber structure				
1	Damage to baffle/weir structure				
1	Damage to access hatch and/or ladder				
1	Chambers are draining properly				
1	Filter media is in good condition				
1	Orifice is clogged				



Score	Description	Comment(s) / Corrective Action(s)	Reference Image
Outlet			
1	Buildup of trash, debris, and sediment		
3	Damage to outlet pipe or structure	The walls around the upstream pipes in the structure are not sealed and filled with loose stone. These areas need to be parged with concrete to seal the connections.	4538, 4540, 4543
1	Signs of erosion around outlet		
1	Orifice is clogged		
1	Leaking or failing joints		
1	Control Value is functional		

Facility ID: STMF0091651
Facility Name: Manassas Station Redevelopment

Inspection Date: 06/27/2023





4507: Facility Overall, looking Southwest.



4508: Top of Bypass Structure 5.



4509: Inside Bypass Structure 5.



4510: Inside Bypass Structure 5, looking upstream.



4511: Inside Bypass Structure 5, looking downstream toward the Northern Isolator Row.



4512: Inside Bypass Structure 5, looking downstream toward the bypass pipe.



4513: Top of Inspection Port 1.



4514: Interior of Inspection Port 1.



4515: Inside Inspection Port 1.



4516: Inside Inspection Port 1, looking downstream along the Southern Isolator Row.



4517: Inside Inspection Port 1, looking upstream along the Southern Isolator Row.



4518: Top of Inspection Port 2.



4519: Interior of Inspection Port 2.



4520: Inside Inspection Port 2.



4521: Inside Inspection Port 2, looking upstream along the Northern Isolator Row.



4522: Inside Inspection Port 2, looking downstream along the Northern Isolator Row.



4523: Facility Overall, looking Northeast.



4524: Top of the Cartridge Bay. Damage to inlet pipe or structure, Broken Bilco door lock (Immediate Repair Needed).



4525: Close-up of the Cartridge Bay access door. Damage to inlet pipe or structure, Broken Bilco door lock (Immediate Repair Needed).



4526: Inside the Cartridge Bay.



4527: Inside the Cartridge Bay, looking upstream toward detention.



4528: Inside the Cartridge Bay, looking upstream toward the underdrain.



4529: Overall view of the Cartridge Bay interior.



4530: Overall view of the Cartridge Bay interior.



4531: Top of Manhole Structure 4.



4532: Inside Manhole Structure 4.



4533: Inside Manhole Structure 4, looking downstream toward the Southern Isolator Row.



4534: Inside Manhole Structure 4, looking upstream toward detention.



4535: Top of Control Structure 3.



4536: Inside Control Structure 3.



4537: Inside Control Structure 3, looking towards the weir.



4538: Inside Control Structure 3, looking towards the weir. Damage to outlet pipe or structure, pipe connections are not sealed (Routine Maintenance Needed).



4540: Inside Control Structure 3, looking upstream toward the Cartridge Bay. Damage to outlet pipe or structure, pipe connections are not sealed (Routine Maintenance Needed).



4542: Inside Control Structure 3, looking downstream toward Outfall Structure 2.



4543: Inside Control Structure 3, looking toward detention. Damage to outlet pipe or structure, pipe connections are not sealed (Routine Maintenance Needed).



4544: Top of Outfall Structure 2.



4545: Inside Outfall Structure 2.



4546: Inside Outfall Structure 2, looking upstream toward Outlet Control Structure 3.



4547: Inside Outfall Structure 2, looking upstream.



4548: Inside Outfall Structure 2, looking downstream.



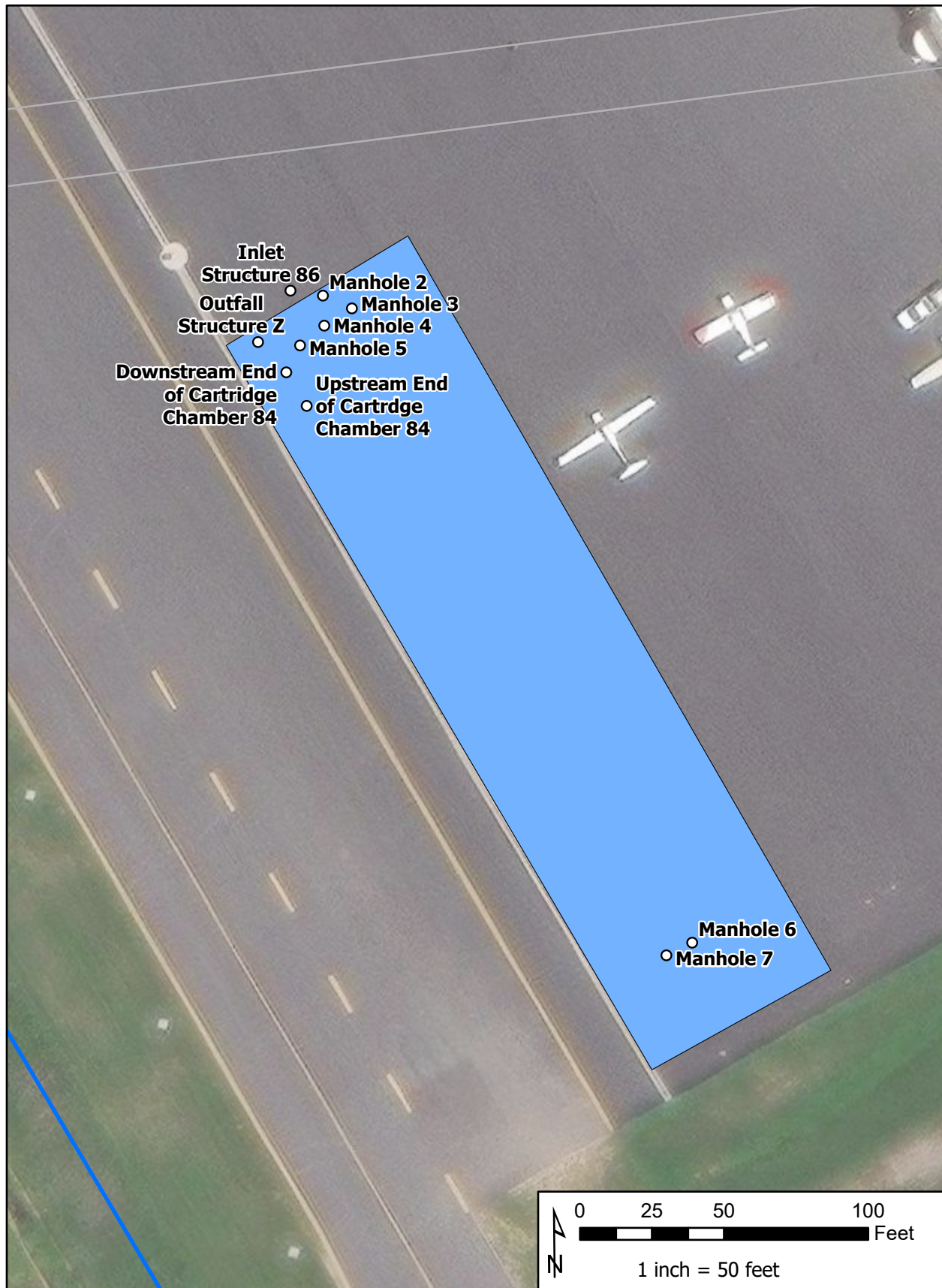
Underground Facility Inspection Report					
Facility Name	Chantilly Air	Facility ID	STMF0091652	Type of Inspection: Initial Inspection	
Location	Lat: 38.721938 Long: -77.509701	Watershed	Rocky Branch-Broad Run	Previous 48 Hour Precipitation Total	0.19"
Materials available for inspection	N/A	Owner Notification Date		Owners/ Owner's Representative	Chantilly Air
Inspectors	gky_mfreeman	Date of Inspection	6/29/2023	Date of Last Inspection	N/A
Overall Condition Score					
	1	Adequate	No deficiencies identified.		
	2	Monitor	No maintenance may be needed at the time, but might become an issue in the future. Will revisit next inspection. Examples include minor erosion, small sediment accumulation, or small structural issues of facility components.		
3	3	Routine Maintenance Needed	Facility is functional but preventative maintenance is required. Examples includes minor structural damage, minor erosion, or trash/debris removal.		
	4	Immediate Repair Needed	Facility is close to or currently not carrying out intended function. Examples include significant sediment accumulation , or structural component failure. <u>Repair Immediately</u>		
	N/A	Not Applicable	Does not pertain to this facility.		
Remarks					
Inspection Items					
Score	Description		Comment(s) / Corrective Action(s)	Reference Image	
Overall					
1	Inadequate access to complete thorough inspection				
1	Hazardous fumes present				
1	Surrounding drainage area trash/debris/unauthorized substances that might affect facility				
1	Surrounding drainage area erosion that might affect facility				
Inlets					
1	Buildup of trash, debris, and sediment				
1	Evidence of erosion or undermining around inlet				
1	Vegetation or other obstruction blocking inflow				
1	Damage to inlet pipe or structure				
Chambers					
1	Sediment threshold, per manufactures' recommendation, has bee reached				
1	Trash/Debris accumulation				
1	Damage to chamber structure				
1	Damage to baffle/weir structure				
3	Damage to access hatch and/or ladder		Bolts locking the access structure were bent and unable to be removed. Remove and replace these bolts.	5099, 5100, 5102, 5103	
1	Chambers are draining properly				
1	Filter media is in good condition				
1	Orifice is clogged				



Score	Description	Comment(s) / Corrective Action(s)	Reference Image
Outlet			
1	Buildup of trash, debris, and sediment		
1	Damage to outlet pipe or structure		
1	Signs of erosion around outlet		
1	Orifice is clogged		
1	Leaking or failing joints		
1	Control Value is functional		

Facility ID: STMF0091652
Facility Name: Chantilly Air

Inspection Date: 06/29/2023





5052: Facility overall, Looking Southeast.



5053: Top of Inlet Structure 86.



5054: Inside Inlet Structure 86.



5055: Inside Inlet Structure 86, looking upstream.



5056: Inside Inlet Structure 86, looking downstream toward the bypass plate.



5057: Inside Inlet Structure 86, looking downstream along the Southern pipe.



5058: Inside Inlet Structure 86, looking downstream along the Northern pipe.



5059: Top of Manhole 2.



5060: Inside Manhole 2.



5061: Interior view of Manhole 2.



5062: Interior view of Manhole 2.



5063: Interior view of Manhole 2.



5064: Interior view of Manhole 2.



5065: Top of Manhole 3.



5066: Manhole 3, inside.



5067: Inside Manhole 3, looking downstream toward detention Northwest.



5068: Inside Manhole 3, looking downstream along the Southern Isolator Row.



5069: Inside Manhole 3, looking upstream.



5070: Top of Manhole 4.



5071: Inside Manhole 4.



5072: Inside Manhole 4, looking downstream Northwest.



5073: Inside Manhole 4, looking downstream along the middle Isolator Row.



5074: Inside Manhole 4, looking upstream.



5075: Top of Manhole 5.



5076: Inside Manhole 5.



5077: Inside Manhole 5, looking upstream toward Inlet Chamber 86.



5078: Inside Manhole 5, looking downstream Northwest.



5079: Inside Manhole 5, looking downstream along the Northern Isolator Row.



5080: Inside Manhole 5, looking downstream toward detention Southwest.



5081: Top of the upstream end of Cartridge Chamber 84.



5082: Inside the upstream end of Cartridge Chamber 84.



5083: Inside the upstream end of Cartridge Chamber 84, looking upstream along the underdrain.



5084: Inside the upstream end of Cartridge Chamber 84, looking upstream toward detention.



5085: Inside the upstream end of Cartridge Chamber 84, looking toward the filter cartridges.



5086: Inside the upstream end of Cartridge Chamber 84, looking toward the filter cartridges.



5087: Top of the downstream end of Cartridge Chamber 84.



5088: Inside the downstream end of Cartridge Chamber 84.



5089 Inside the downstream end of Cartridge Chamber 84, looking toward the filter cartridges.



5090: Inside the downstream end of Cartridge Chamber 84, looking toward the filter cartridges.



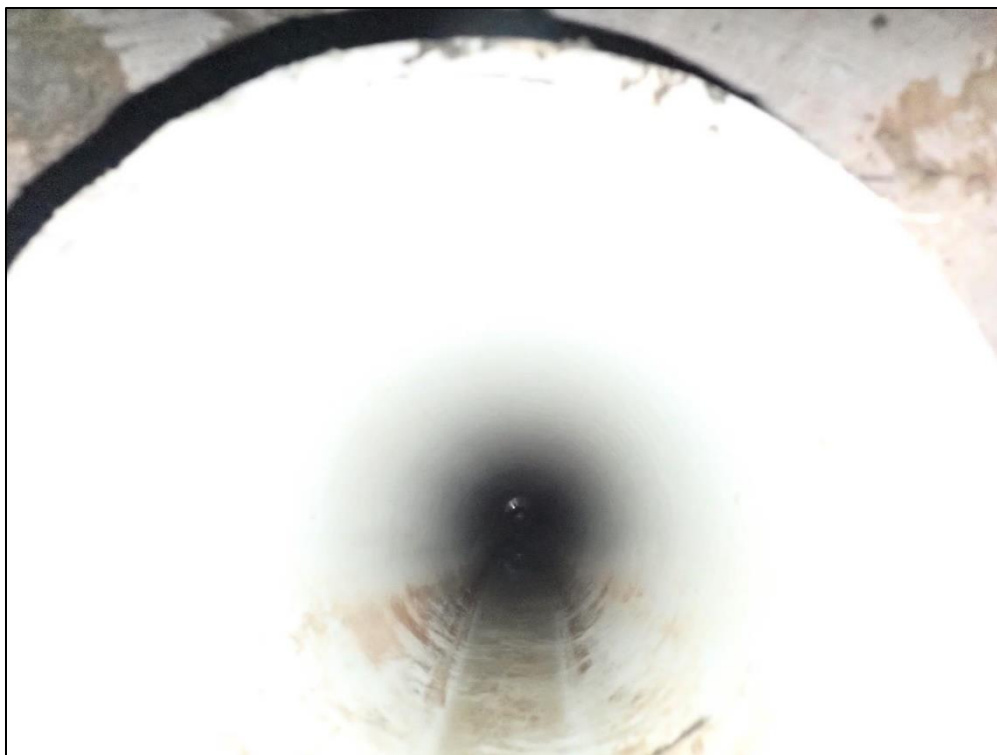
5092: Inside the downstream end of Cartridge Chamber 84, looking downstream toward the underdrain.



5094: Top of Outfall Structure Z.



5095: Inside Outfall Structure Z.



5096: Inside Outfall Structure Z, looking upstream along the underdrain.



5097: Inside Outfall Structure Z, looking downstream.



5098: Top of Manhole 6.



5099: Close-up of Manhole 6. Inadequate access to complete a thorough inspection, bent bolt (Routine Maintenance Needed).



5100: Close-up of Manhole 6. Inadequate access to complete a thorough inspection, bent bolt (Routine Maintenance Needed).



5101: Top of Manhole 7.



5102: Close-up of Manhole 7. Inadequate access to complete a thorough inspection, bent bolt (Routine Maintenance Needed).



5103: Close-up of Manhole 7. Inadequate access to complete a thorough inspection, bent bolt (Routine Maintenance Needed).



5104: Facility overall, looking Northwest.



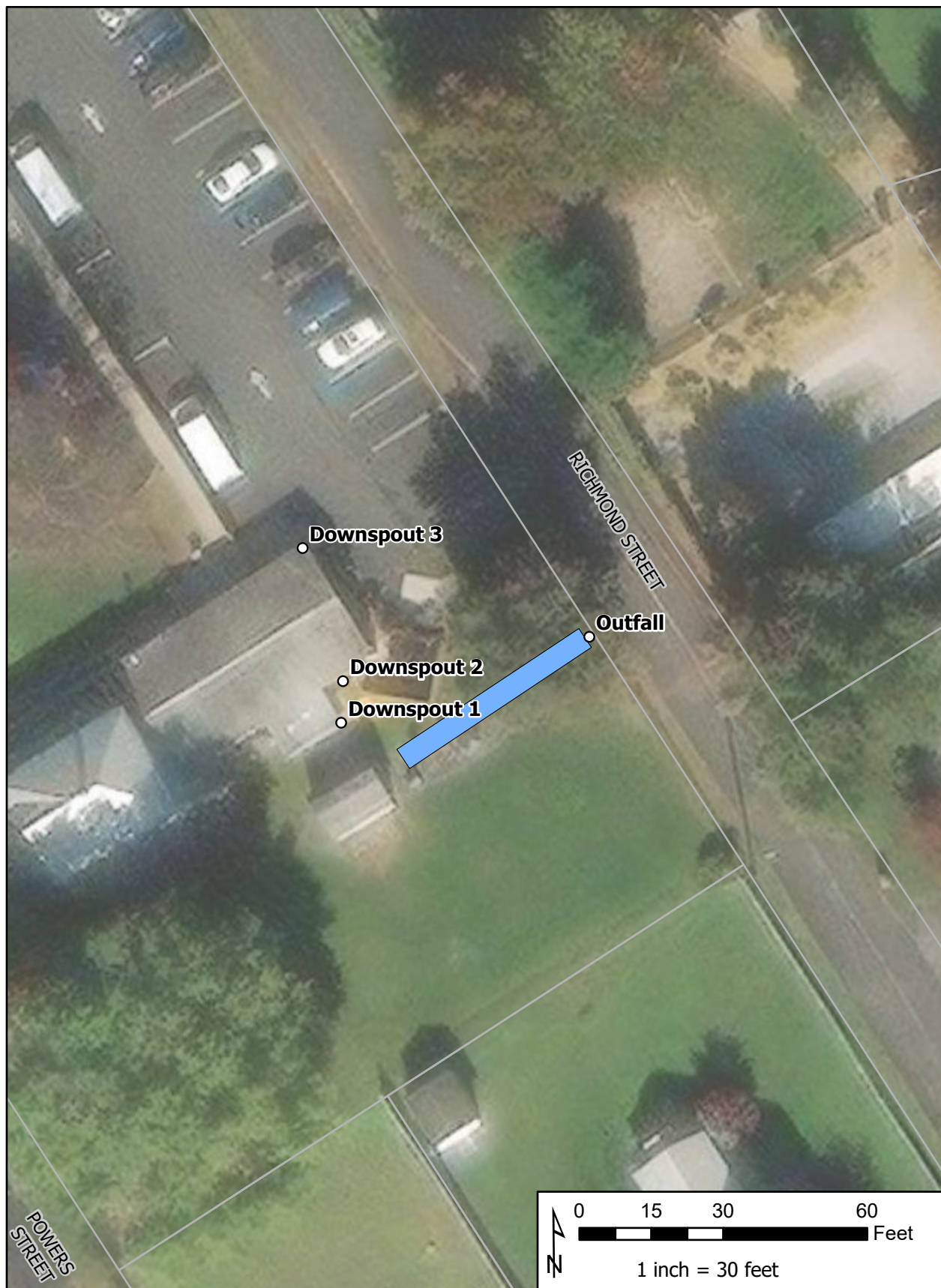
Infiltration Trench Inspection Report					
Facility Name	Manassas Christian School	Facility ID	STMF0092390	Type of Inspection: Initial Inspection	
Location	Lat: 38.748108 Long: -77.460538	Watershed	Rocky Branch-Broad Run	Previous 48 Hour Precipitation Total	0.00"
Materials available for inspection	N/A	Owner Notification Date		Owners/ Owner's Representative	Manassas Christian School
Inspectors	gky_mfreeman	Date of Inspection	6/28/2023	Date of Last Inspection	N/A
Overall Condition Score					
	1	Adequate	No deficiencies identified.		
	2	Monitor	No maintenance may be needed at the time, but might become an issue in the future. Will revisit next inspection. Examples include minor erosion, small sediment accumulation, or small structural issues of facility components.		
	3	Routine Maintenance Needed	Facility is functional but preventative maintenance is required. Examples includes vegetation management, minor erosion, or trash/debris removal.		
4	4	Immediate Repair Needed	Facility is close to or currently not carrying out intended function. Examples include major erosion, significant sediment accumulation , or structural component failure. <u>Repair Immediately</u>		
	N/A	Not Applicable	Does not pertain to this facility.		
Remarks					
Inspection Items					
Score	Description		Comment(s) / Corrective Action(s)	Reference Image	
Overall					
1	Inadequate access to complete thorough inspection				
1	Fences are damaged or have vegetation growing on them				
1	Missing or damaged safety signage				
1	Surrounding drainage area trash/debris/unauthorized substances that might affect facility				
1	Surrounding drainage area erosion that might be related to facility				
Surface Trench Components					
Gravel Bed Surface					
1	Trench Eliminated				
1	Gravel Not Found Under Turf				
1	Gravel Footprint				
1	Condition of Grass or Fabric				
1	Signs of erosion or exposed soil				
4	Evidence of clogging		Sediment accumulation was observed in the facility's gravel layer. Remove this material to ensure continued function.	4757, 4758	
1	Filter Fabric Needs Repair				
Observation Well/ Cleanout (s)					
1	Missing/ Not Found				
1	Cap Missing/ Stuck				
1	Water/ Sediment Observed in Well				



Score	Description	Comment(s) / Corrective Action(s)	Reference Image
Dam/Berm and Emergency Spillway			
1	Woody vegetation on embankment		
1	Shrubby, low growing vegetation, and/or vine material growing on embankment		
1	Sparse vegetative coverage		
1	Signs of erosion, settlement, piping, or slope slippage		
1	Signs of seepage, soft spots, and sinkhole formation		
1	Evidence of nuisance animals		
1	Buildup of trash or debris on embankment		
1	Trash, debris, or obstructions in emergency spillway		
Surface Inflow and Roof Drains			
1	Evidence of Blockage		
1	Signs of Erosion		
1	Buildup of trash or debris		
1	Shrubby, low growing vegetation, and/or vine material growing around inflow		
Pre-Treatment and Energy Dissipators			
1	Structures missing, non functional, or inconsistent with plan		
1	Evidence of deterioration or damage		
1	Buildup of trash, debris, and sediment		
Underground Trench Component			
Control Structure			
1	Buildup of trash and debris		
1	Evidence of standing water or blockage		
1	Silt and sedimentation buildup		
1	Missing or nonfunctional structures: low flow orifice and trash rack, higher flow orifice/ weir, and outlet pipe		
1	Signs of erosion around structures		
Detention Pipe/ Vault			
1	Evidence of standing water or blockage		
1	Buildup of trash, debris, or sedimentation		
1	Evidence of spalling or deterioration		
1	Separation or misalignment of detention pipe		
Outfall Structure/ Other			
Outfall Structure and Channel			
1	Outfall structure is damaged or rusting		
1	Woody vegetation growing within 5' of outlet and barrel		
1	Buildup of trash, debris, and sediment around outfall or in channel		
1	Signs of erosion around outfall or channel		

Facility ID: STMF0092390
Facility Name: Manassas Christian School

Inspection Date: 06/28/2023





4756: Facility Overall, looking Southwest.



4757: Close-up showing the Gravel Detail. Evidence of clogging (Immediate Repair Needed).



4758: Close-up showing the Gravel Detail. Evidence of clogging (Immediate Repair Needed).



4759: Overall view of Downspout 1, piped underground toward the trench.



4760: Overall view of Downspout 2, piped underground toward the trench.



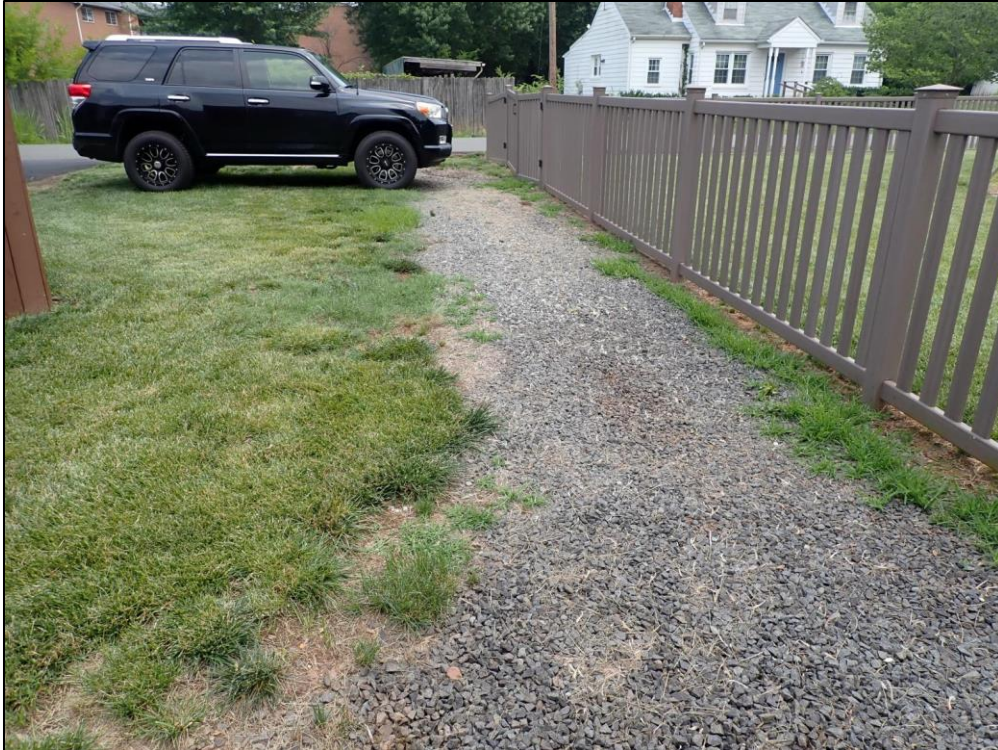
4761: Overall view of Downspout 3, flowing overland toward the trench.



4762: Close-up view of Downspout 3.



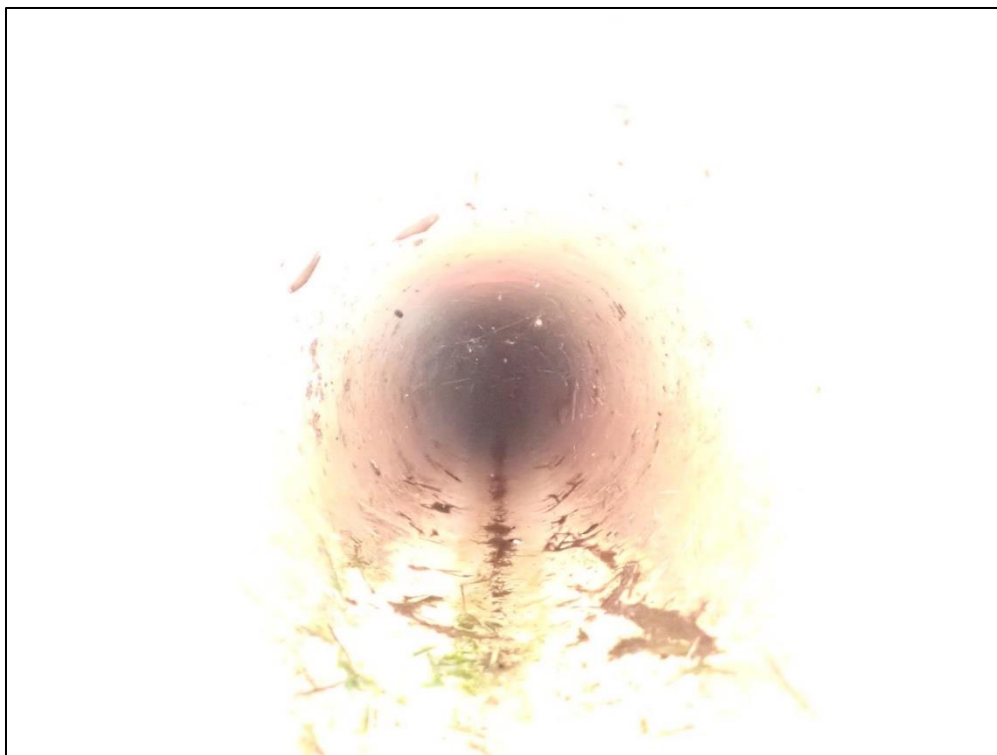
4763: Looking Northwest toward the Overland inflow area.



4764: Facility Overall, looking Northeast.



4765: Front of the Outfall.



4766: Inside the Outfall.



4767: From the Outfall, looking downstream.



Infiltration Trench Inspection Report					
Facility Name	Odend'Hal Trench	Facility ID	STMF0092391	Type of Inspection: Initial Inspection	
Location	Lat: 38.751442 Long: -77.473539	Watershed	Middle Bull Run	Previous 48 Hour Precipitation Total	0.00"
Materials available for inspection	N/A	Owner Notification Date		Owners/ Owner's Representative	Odend'Hal Properties, LLC
Inspectors	gky_mfreeman	Date of Inspection	6/29/2023	Date of Last Inspection	N/A
Overall Condition Score					
	1	Adequate	No deficiencies identified.		
	2	Monitor	No maintenance may be needed at the time, but might become an issue in the future. Will revisit next inspection. Examples include minor erosion, small sediment accumulation, or small structural issues of facility components.		
	3	Routine Maintenance Needed	Facility is functional but preventative maintenance is required. Examples includes vegetation management, minor erosion, or trash/debris removal.		
4	4	Immediate Repair Needed	Facility is close to or currently not carrying out intended function. Examples include major erosion, significant sediment accumulation , or structural component failure. <u>Repair Immediately</u>		
	N/A	Not Applicable	Does not pertain to this facility.		
Remarks					
The facility was not found. In the area specified in the plans, a shed was observed with adjacent outside storage. It appears that this facility has either been removed or altered to the point where it can no longer function as designed.					
Inspection Items					
Score	Description	Comment(s) / Corrective Action(s)	Reference Image		
Overall					
1	Inadequate access to complete thorough inspection				
1	Fences are damaged or have vegetation growing on them				
1	Missing or damaged safety signage				
4	Surrounding drainage area trash/debris/unauthorized substances that might affect facility	The area of and adjacent to the trench and the sidewalk drain were covered in trash, debris, and other unauthorized substances. This material needs to be removed.	4494, 4495, 4497, 4502		
1	Surrounding drainage area erosion that might be related to facility				
Surface Trench Components					
Gravel Bed Surface					
4	Trench Eliminated	The area of the trench in the plans has been severely altered, and the trench appears to have been eliminated.	4496, 4498		
1	Gravel Not Found Under Turf				
1	Gravel Footprint				
1	Condition of Grass or Fabric				
1	Signs of erosion or exposed soil				
1	Evidence of clogging				
1	Filter Fabric Needs Repair				
Observation Well/ Cleanout (s)					
1	Missing/ Not Found				
1	Cap Missing/ Stuck				
1	Water/ Sediment Observed in Well				



Score	Description	Comment(s) / Corrective Action(s)	Reference Image
Dam/Berm and Emergency Spillway			
1	Woody vegetation on embankment		
1	Shrubby, low growing vegetation, and/or vine material growing on embankment		
1	Sparse vegetative coverage		
1	Signs of erosion, settlement, piping, or slope slippage		
1	Signs of seepage, soft spots, and sinkhole formation		
1	Evidence of nuisance animals		
1	Buildup of trash or debris on embankment		
1	Trash, debris, or obstructions in emergency spillway		
Surface Inflow and Roof Drains			
1	Evidence of Blockage		
1	Signs of Erosion		
1	Buildup of trash or debris		
1	Shrubby, low growing vegetation, and/or vine material growing around inflow		
Pre-Treatment and Energy Dissipators			
1	Structures missing, non functional, or inconsistent with plan		
1	Evidence of deterioration or damage		
1	Buildup of trash, debris, and sediment		
Underground Trench Component			
Control Structure			
1	Buildup of trash and debris		
1	Evidence of standing water or blockage		
1	Silt and sedimentation buildup		
1	Missing or nonfunctional structures: low flow orifice and trash rack, higher flow orifice/ weir, and outlet pipe		
1	Signs of erosion around structures		
Detention Pipe/ Vault			
1	Evidence of standing water or blockage		
1	Buildup of trash, debris, or sedimentation		
1	Evidence of spalling or deterioration		
1	Separation or misalignment of detention pipe		
Outfall Structure/ Other			
Outfall Structure and Channel			
1	Outfall structure is damaged or rusting		
1	Woody vegetation growing within 5' of outlet and barrel		
1	Buildup of trash, debris, and sediment around outfall or in channel		
1	Signs of erosion around outfall or channel		

Facility ID: STMF0092391
Facility Name: Odendhal Trench

Inspection Date: 06/27/2023





4494: Facility overall, looking West. Surrounding drainage area trash/debris/Unauthorized substances that might affect the facility. (Immediate Repair Needed).



4495: Facility overall, looking East. Surrounding drainage area trash/debris/Unauthorized substances that might affect the facility. (Immediate Repair Needed).



4496: Close-up showing the Gravel Detail. The trench appears to have been eliminated or severely altered. (Immediate Repair Needed).



4497: Facility overall, looking West. Surrounding drainage area trash/debris/unauthorized substances that might affect the facility. (Immediate Repair Needed).



4498: Another close-up showing the Gravel Detail. The trench appears to have been eliminated or severely altered. (Immediate Repair Needed).



4499: Overall View of Roof Drain 1.



4500: Close-up view of Roof Drain 1.



4501: Overall view of Roof Drains 2-4.



4502: Top of Sidewalk Drain. Surrounding drainage area trash/debris/Unauthorized substances that might affect the facility. (Immediate Repair Needed).



4503: Inside Sidewalk Drain, looking toward the Eastern upstream pipes.



4504: Inside Sidewalk Drain, looking toward the Southern upstream pipe.



4505: Inside Sidewalk Drain, looking toward the Westen upstream pipe.



4506: Sidewalk Drain, looking toward the downstream pipe.



Bioretention Inspection Report					
Facility Name	Holtzman Basin	Facility ID	STMF0092395	Type of Inspection: Initial Inspection	
Location	Lat: 38.739087 Long: -77.502179	Watershed	Rocky Branch-Broad Run	Previous 48 Hour Precipitation Total	0.19"
Materials available for inspection	N/A	Owner Notification Date		Owners/ Owner's Representative	Holtzman
Inspectors	gky_mfreeman	Date of Inspection	6/29/2023	Date of Last Inspection	N/A
Overall Condition Score					
	1	Adequate	No deficiencies identified.		
	2	Monitor	No maintenance may be needed at the time, but might become an issue in the future. Will revisit next inspection. Examples include minor erosion, small sediment accumulation, or small structural issues of facility components.		
3	3	Routine Maintenance Needed	Facility is functional but preventative maintenance is required. Examples includes vegetation management, minor erosion, or trash/debris removal.		
	4	Immediate Repair Needed	Facility is close to or currently not carrying out intended function. Examples include major erosion, significant sediment accumulation , or structural component failure. <u>Repair Immediately</u>		
	N/A	Not Applicable	Does not pertain to this facility.		
Remarks					
Inspection Items					
Score	Description	Comment(s) / Corrective Action(s)		Reference Image	
Overall					
1	Inadequate access to complete thorough inspection				
1	Encroachment				
1	Missing or damaged safety signage				
1	Mosquitos				
1	Surrounding drainage area trash/debris/unauthorized substances that might affect facility				
1	Surrounding drainage area erosion that might be related to facility				
Pre-Treatment					
3	Buildup of trash or debris	Sediment accumulation and vegetation growth observed on the Check Dam. Remove this material to ensure continued function.		5002, 5003	
1	Signs of erosion or exposed soil				
1	Sediment in forebay has reached 50% or more of capacity				
1	Evidence of clogging				
1	Vegetation does not match original design				
Inlet					
1	Buildup of trash, debris, and sediment				
1	Evidence of erosion or undermining around inlet				
1	Woody growth around inlet structure				
1	Evidence of nuisance animals				
1	Damage to inlet pipe or structure				

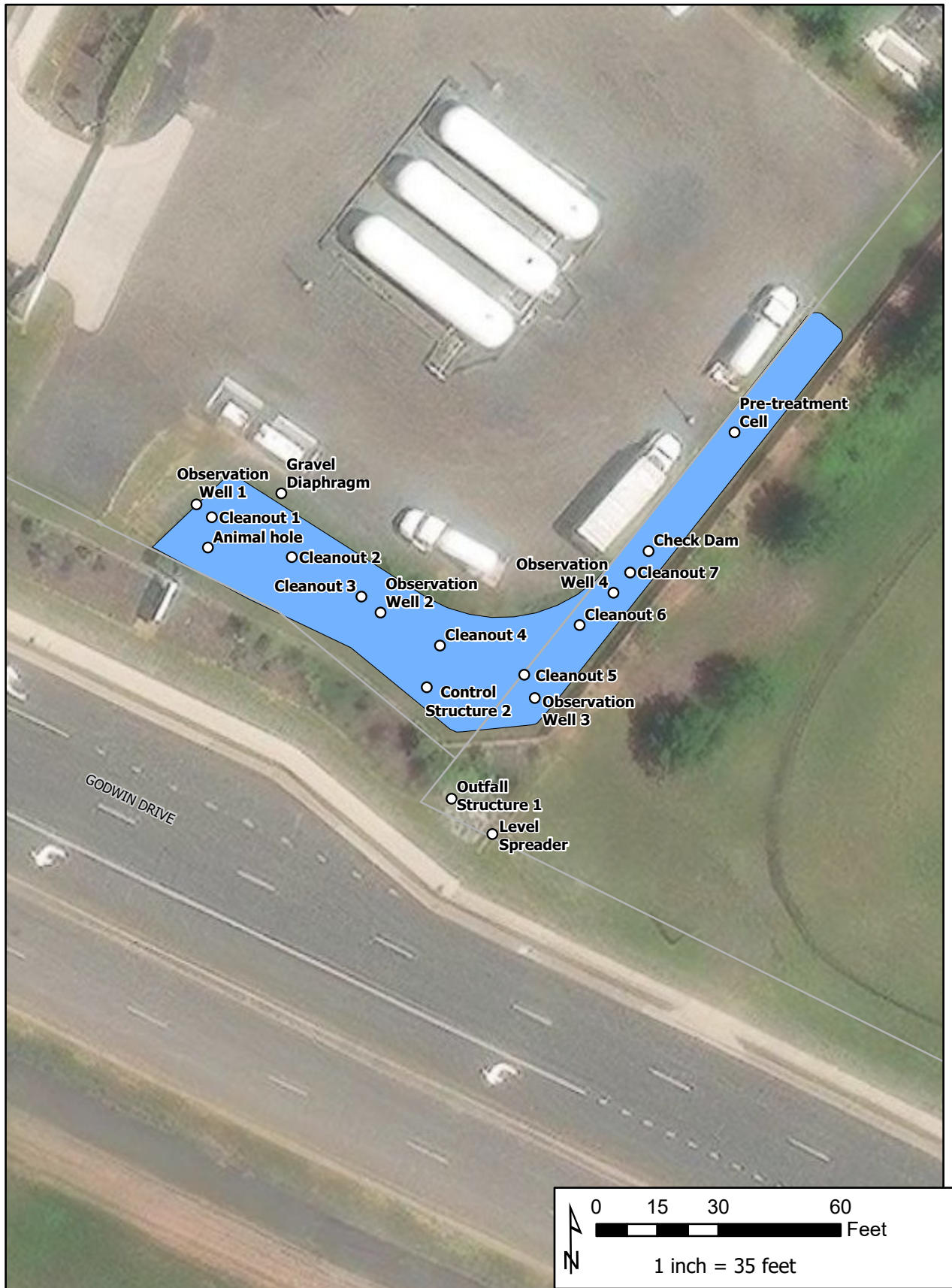




Score	Description	Comment(s) / Corrective Action(s)	Reference Image
Side Slopes			
3	Evidence of erosion or bare spots	Bare spots and eroded areas were observed on the facility's Gravel Diaphragm and side slope. Stabilize the areas within the gravel diaphragm with additional stone and the side slopes with seed and straw.	4996, 4999, 5009
1	Shrubby, low growing vegetation, and/or vine material growing on slopes		
3	Evidence of nuisance animals	A 3 cubic foot animal hole was observed in the side slope. Fill this hole with topsoil and stabilize the area with seed and straw.	5015, 5016
3	Buildup of trash, debris, or sediment	Sediment accumulation and vegetation growth observed on the Gravel Diaphragm. Remove this material to ensure continued function.	4995, 4997, 4998
Vegetation			
1	Plant composition is inconsistent with the approved plans		
1	Vegetation is diseased, dying or dead		
1	Inadequate cover (mulch + vegetation should be 75-90% cover)		
1	Invasive species or weeds make up at least 10% of the facility's vegetation		
1	Grass is too high and needs to be mowed		
Filter Media			
1	Filter media is too low, too compacted, or the composition is inconsistent with design specifications		
3	Mulch layer is less than 2" deep or is otherwise in poor condition	No mulch was observed throughout the filter bed. Add the 2-3" of mulch specified by the approved facility plan.	5006
1	Excessive trash, debris, or sediment and/or evidence of chemicals, fertilizers, or oil/grease		
1	Concentrated flows, erosion or exposed soil		
1	Filter bed is clogged and/or filled inappropriately / signs of standing water		
Underdrain/Observation Well (Proper Drainage)			
1	Perforated pipe is not conveying water as designed		
1	Observation well cap missing or damaged		
Outlet/ Overflow Spillway			
1	Outlets are obstructed		
3	Erosion and soil exposure is evident below the outlet	Erosion was observed adjacent to the level spreader. Repair the erosion and stabilize the area with seed and mulch.	5048, 5049
1	Excessive trash, debris, or sediment at the outlet		

Facility ID: STMF0092395
Facility Name: Holtzman Basin

Inspection Date: 06/29/2023





4994: Facility overall, looking Southeast.



4995: Overall view of the Gravel Diaphragm. Buildup of sediment and vegetation (Routine Maintenance Needed).



4996: Overall view of the Gravel Diaphragm. Evidence of erosion or bare spots (Routine Maintenance Needed).



4997: Close-up of the Gravel Diaphragm, showing the gravel detail. Buildup of sediment and vegetation (Routine Maintenance Needed).



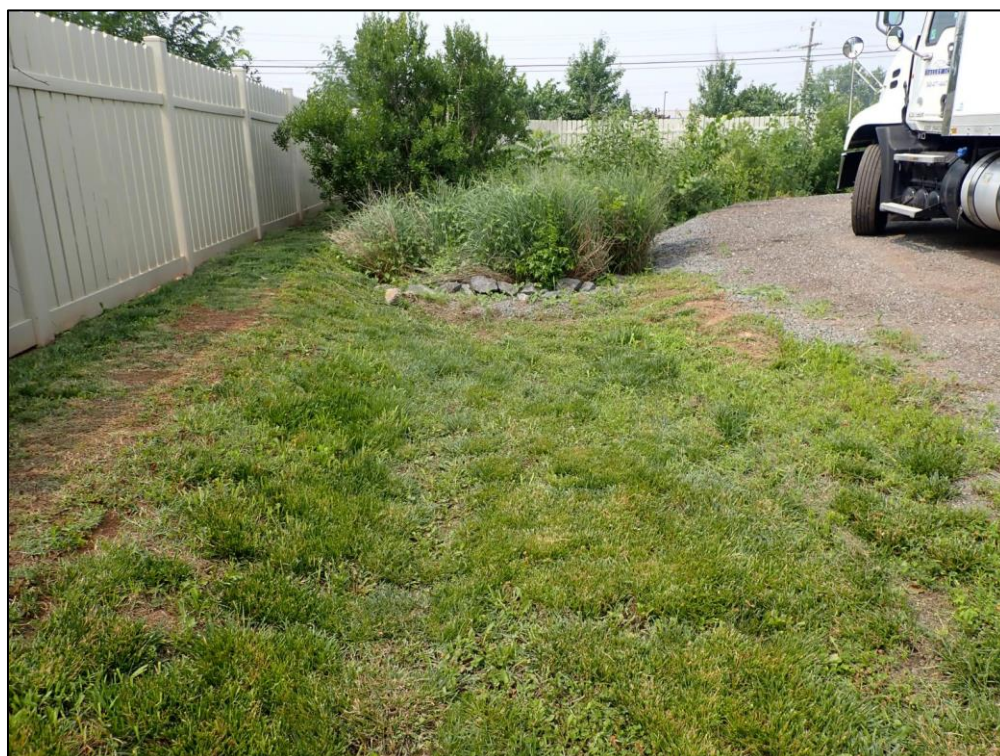
4998: Overall view of the Gravel Diaphragm. Buildup of sediment and vegetation (Routine Maintenance Needed).



4999: Overall view of the Gravel Diaphragm. Evidence of erosion or bare spots (Routine Maintenance Needed).



5000: Looking upstream toward the Pre-treatment Cell.



5001: Looking downstream from the Pre-treatment Cell.



5002: Overall view of the Check Dam. Buildup of sediment and vegetation (Routine Maintenance Needed).



5003: Close-up of the Check dam. Buildup of sediment and vegetation (Routine Maintenance Needed).



5004: Looking upstream from the Check dam.



5005: Looking downstream along the Check dam.



5006: Close-up of the ponding area showing 0" of mulch. Mulch layer is less than 2" deep or is otherwise in poor condition (Routine Maintenance Needed).



5007: Looking toward a typical shrub of 27 total.



5008: Looking toward a typical tree of 4 total.



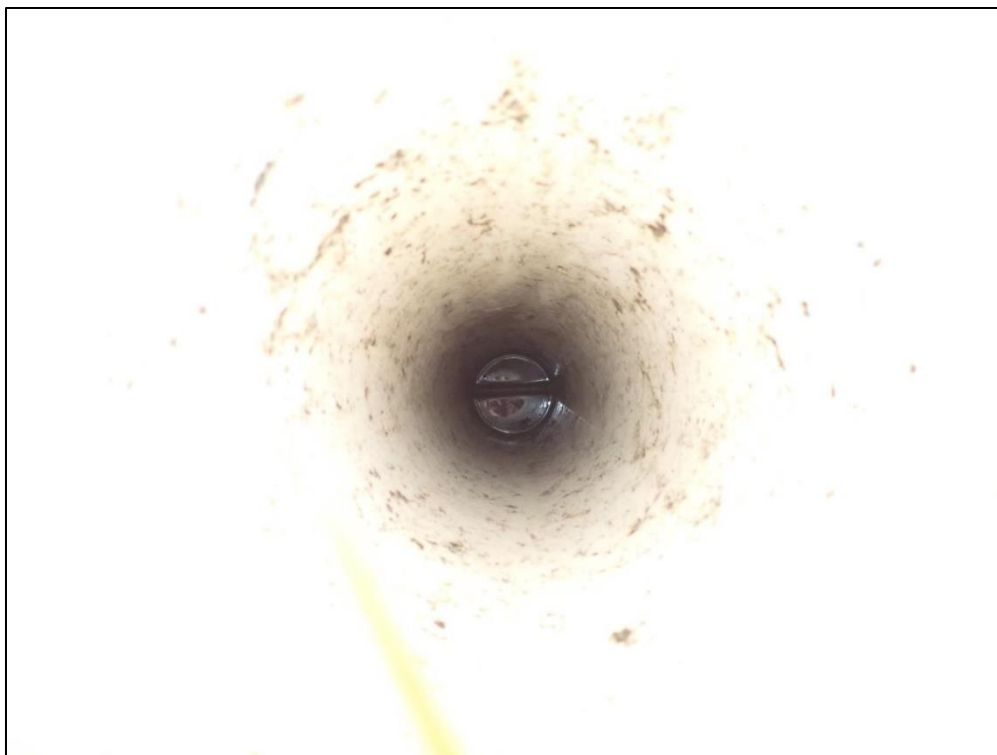
5009: Overall view of the overland inflow area, looking North. Evidence of erosion or bare spots (Routine Maintenance Needed).



5010: Overall view of the overland inflow area, looking Northeast.



5011: Top of Observation Well 1.



5012: Inside Observation Well 1.



5013: Top of Cleanout 1.



5014: Inside Cleanout 1.



5015: Overall view of the Animal Hole. Evidence of nuisance animals (Routine Maintenance Needed).



5016: Close-up of the Animal Hole. Evidence of nuisance animals (Routine Maintenance Needed).



5017: Top of Cleanout 2.



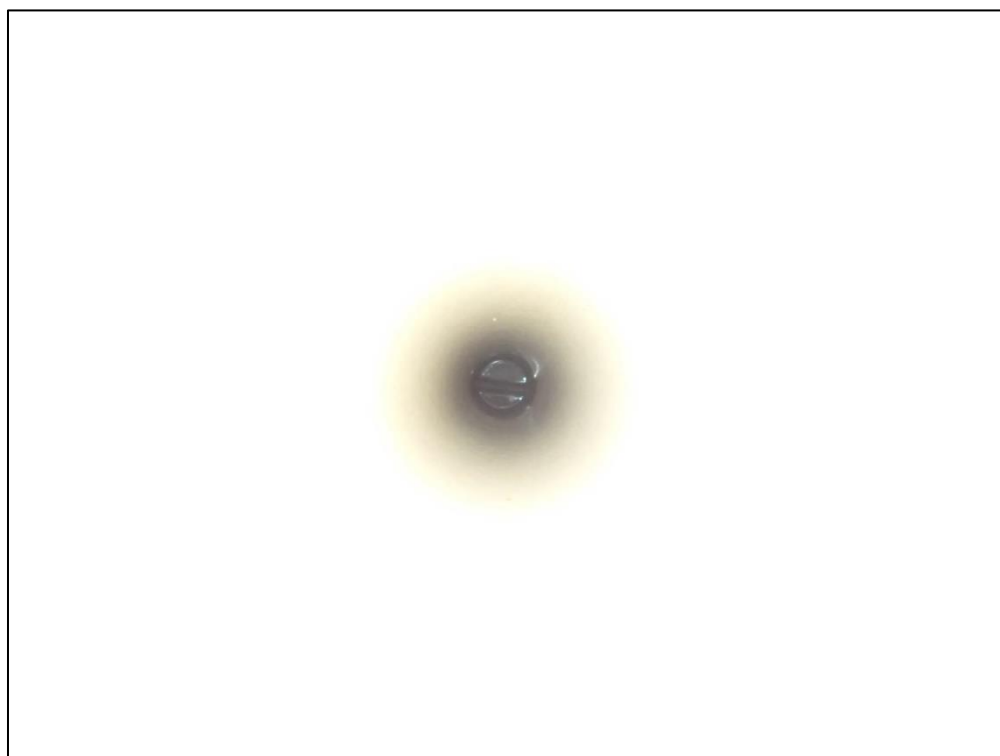
5018: Inside Cleanout 2.



5019: Facility overall, looking Southwest.



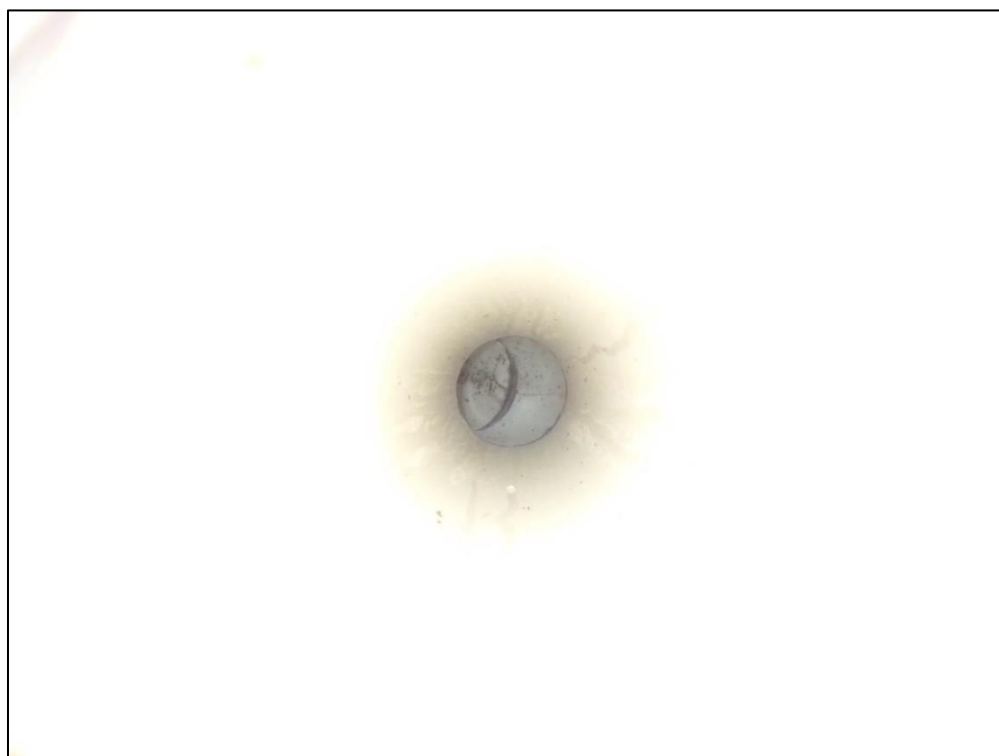
5020: Top of Observation Well 2.



5021: Inside Observation Well 2.



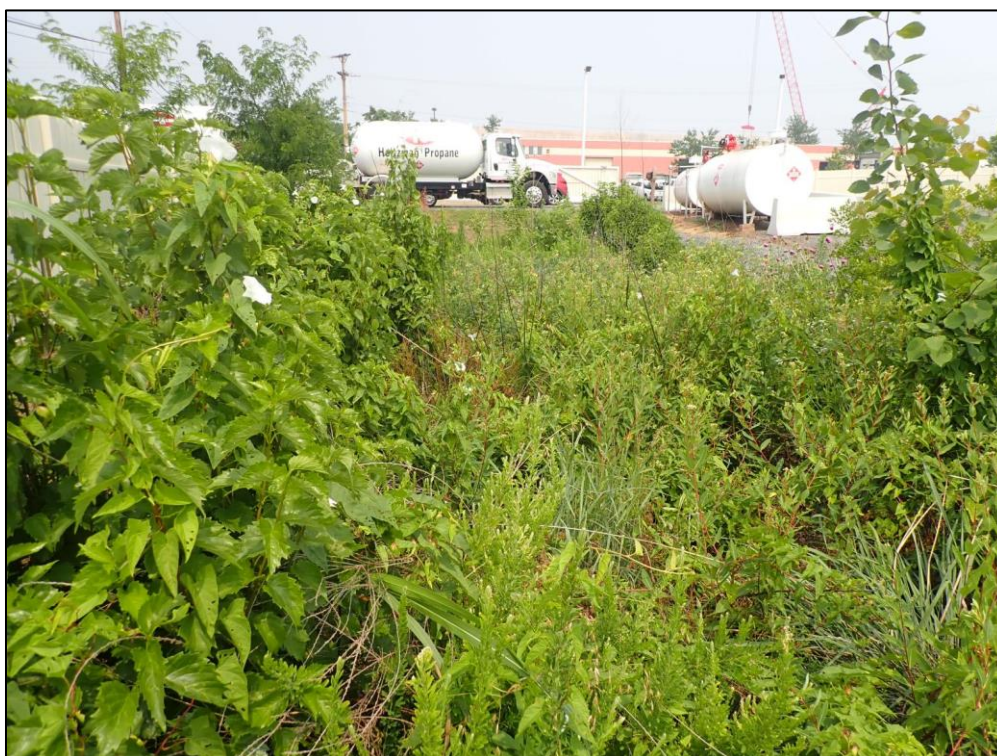
5022: Top of Cleanout 3.



5023: Inside Cleanout 3.



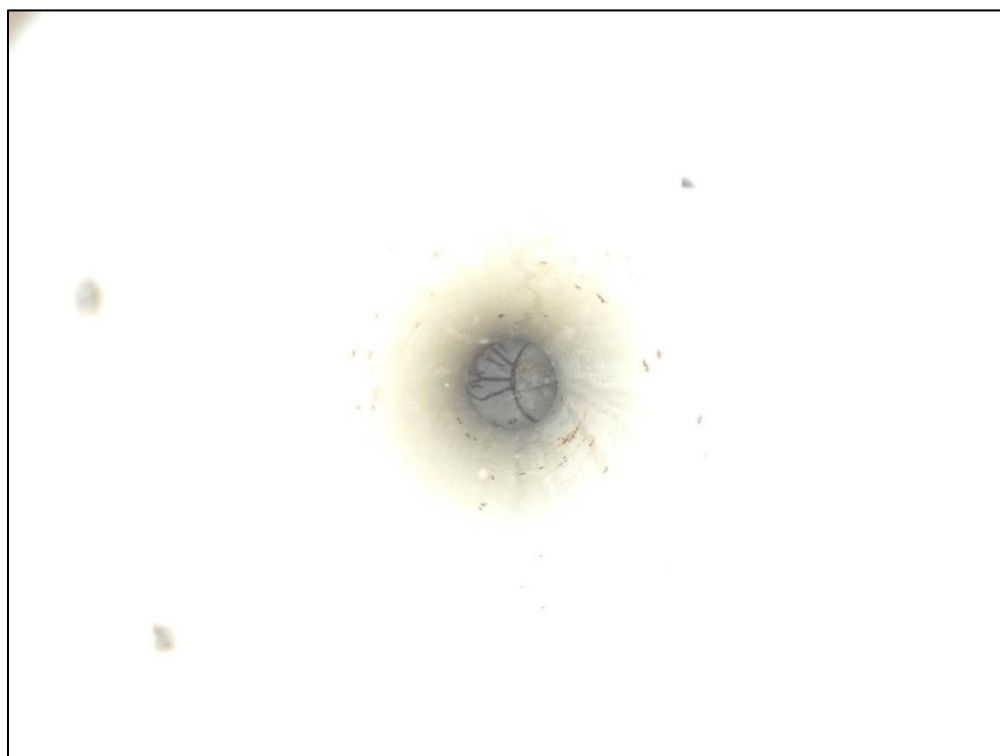
5024: Facility overall, looking Northeast.



5025: Facility overall, looking Northwest.



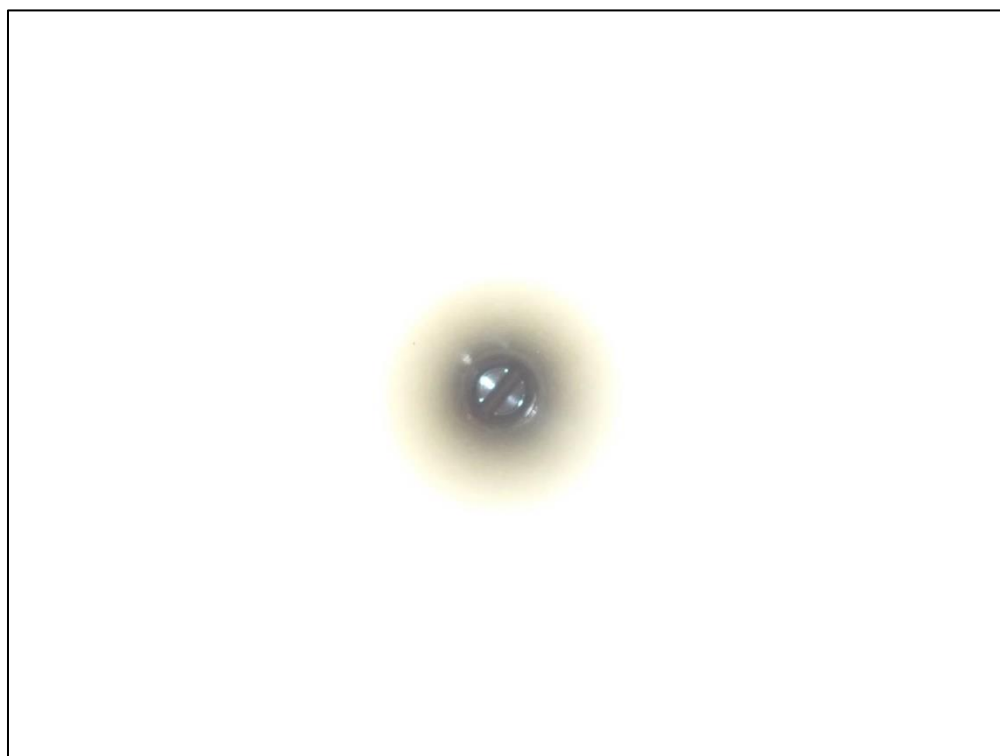
5026: Top of Cleanout 4.



5027: Inside Cleanout 4.



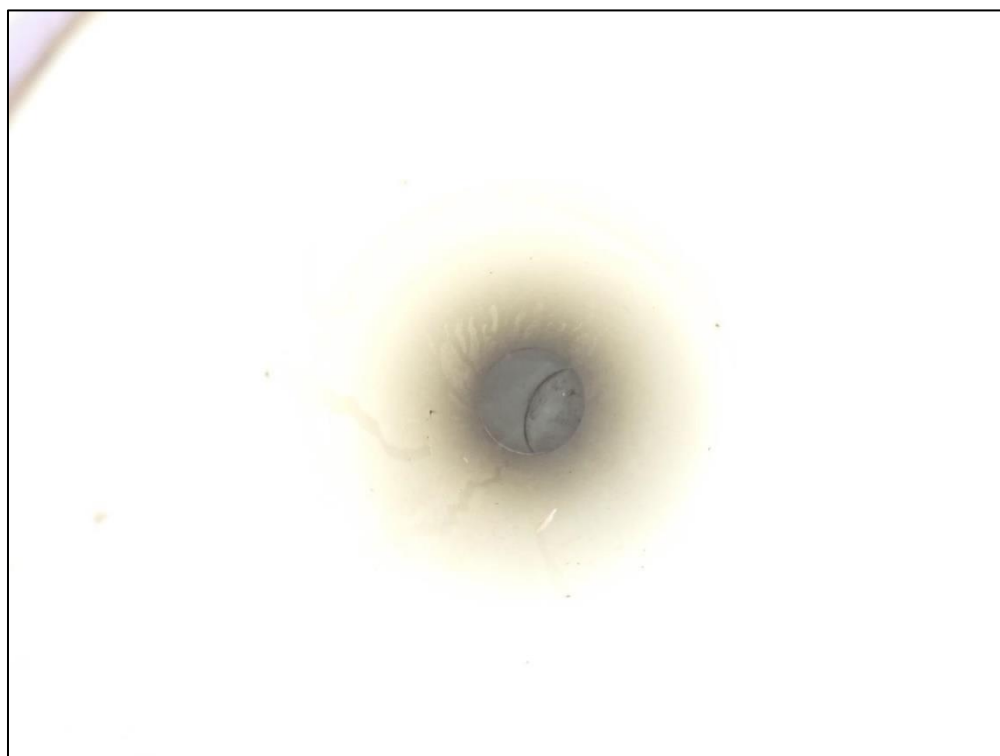
5028: Top of Observation Well 3.



5029: Inside Observation Well 3.



5030: Top of Cleanout 5.



5031: Inside Cleanout 5.



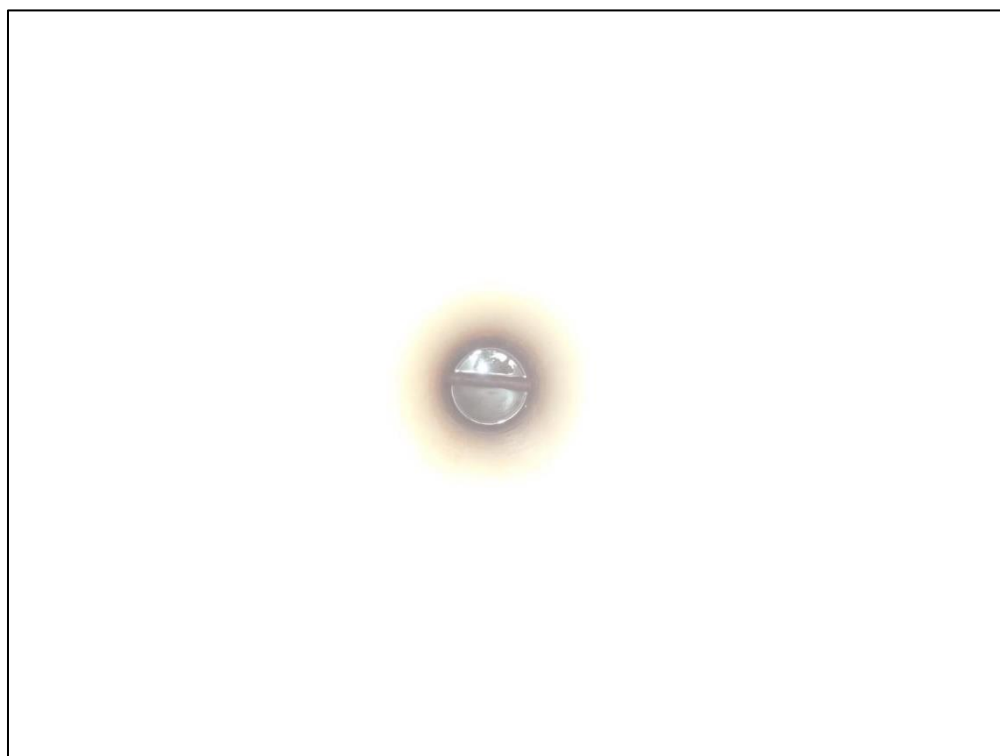
5032: Top of Cleanout 6.



5033: Inside Cleanout 6.



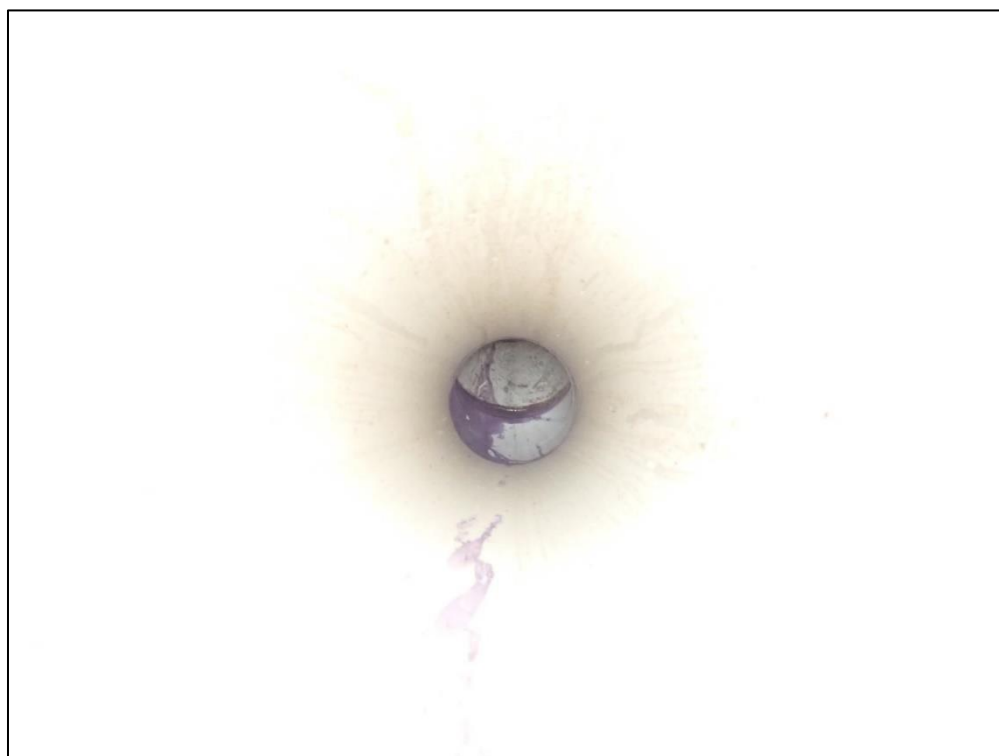
5034: Top of Observation Well 4.



5035: Inside Observation Well 4.



5036: Top of Cleanout 7.



5037: Inside Cleanout 7.



5038: Facility overall, looking South.



5039: Berm overall, looking Northwest.



5040: Berm overall, looking Southeast.



5041: Berm overall, looking Northeast.



5042: Top of Control Structure 2.



5043: Inside Control Structure 2.



5044: Inside Control Structure 2, looking upstream along the underdrain.



5045: Inside Control Structure 2, looking downstream.



5046: Front of Outfall Structure 1.



5047: Inside Outfall Structure 1.



5048: Looking downstream from Outfall Structure 1. Erosion observed on the adjacent slope (Routine Maintenance Needed).



5049: Overall view of the Level Spreader. Erosion observed on the adjacent slope (Routine Maintenance Needed).



5050: Looking upstream toward the Level Spreader.



5051: Looking downstream toward the Level Spreader.



Underground Facility Inspection Report					
Facility Name	Goddard School	Facility ID	STMF0092396	Type of Inspection: Initial Inspection	
Location	Lat: 38.729281 Long: -77.471412	Watershed	Rocky Branch-Broad Run	Previous 48 Hour Precipitation Total	0.00"
Materials available for inspection	N/A	Owner Notification Date		Owners/ Owner's Representative	The Goddard School
Inspectors	gky_mfreeman	Date of Inspection	6/28/2023	Date of Last Inspection	N/A
Overall Condition Score					
	1	Adequate	No deficiencies identified.		
	2	Monitor	No maintenance may be needed at the time, but might become an issue in the future. Will revisit next inspection. Examples include minor erosion, small sediment accumulation, or small structural issues of facility components.		
	3	Routine Maintenance Needed	Facility is functional but preventative maintenance is required. Examples includes minor structural damage, minor erosion, or trash/debris removal.		
4	4	Immediate Repair Needed	Facility is close to or currently not carrying out intended function. Examples include significant sediment accumulation , or structural component failure. <u>Repair Immediately</u>		
	N/A	Not Applicable	Does not pertain to this facility.		
Remarks					
Safety Concern: The manhole lid collar is not securely fastened to the structure.					
Inspection Items					
Score	Description		Comment(s) / Corrective Action(s)	Reference Image	
Overall					
3	Inadequate access to complete thorough inspection		One of the two bolts securing the manhole lid was stuck. Loosen or replace the bolt so that the structure can be accessed for inspection and maintenance purposes.	4569	
1	Hazardous fumes present				
1	Surrounding drainage area trash/debris/unauthorized substances that might affect facility				
1	Surrounding drainage area erosion that might affect facility				
Inlets					
1	Buildup of trash, debris, and sediment				
1	Evidence of erosion or undermining around inlet				
1	Vegetation or other obstruction blocking inflow				
1	Damage to inlet pipe or structure				
Chambers					
1	Sediment threshold, per manufactures' recommendation, has bee reached				
1	Trash/Debris accumulation				
1	Damage to chamber structure				
1	Damage to baffle/weir structure				
4	Damage to access hatch and/or ladder		The manhole lid collar is not securely fastened to the structure. Attach the collar to the structure with bolts.	4556	
1	Chambers are draining properly				
1	Filter media is in good condition				
1	Orifice is clogged				

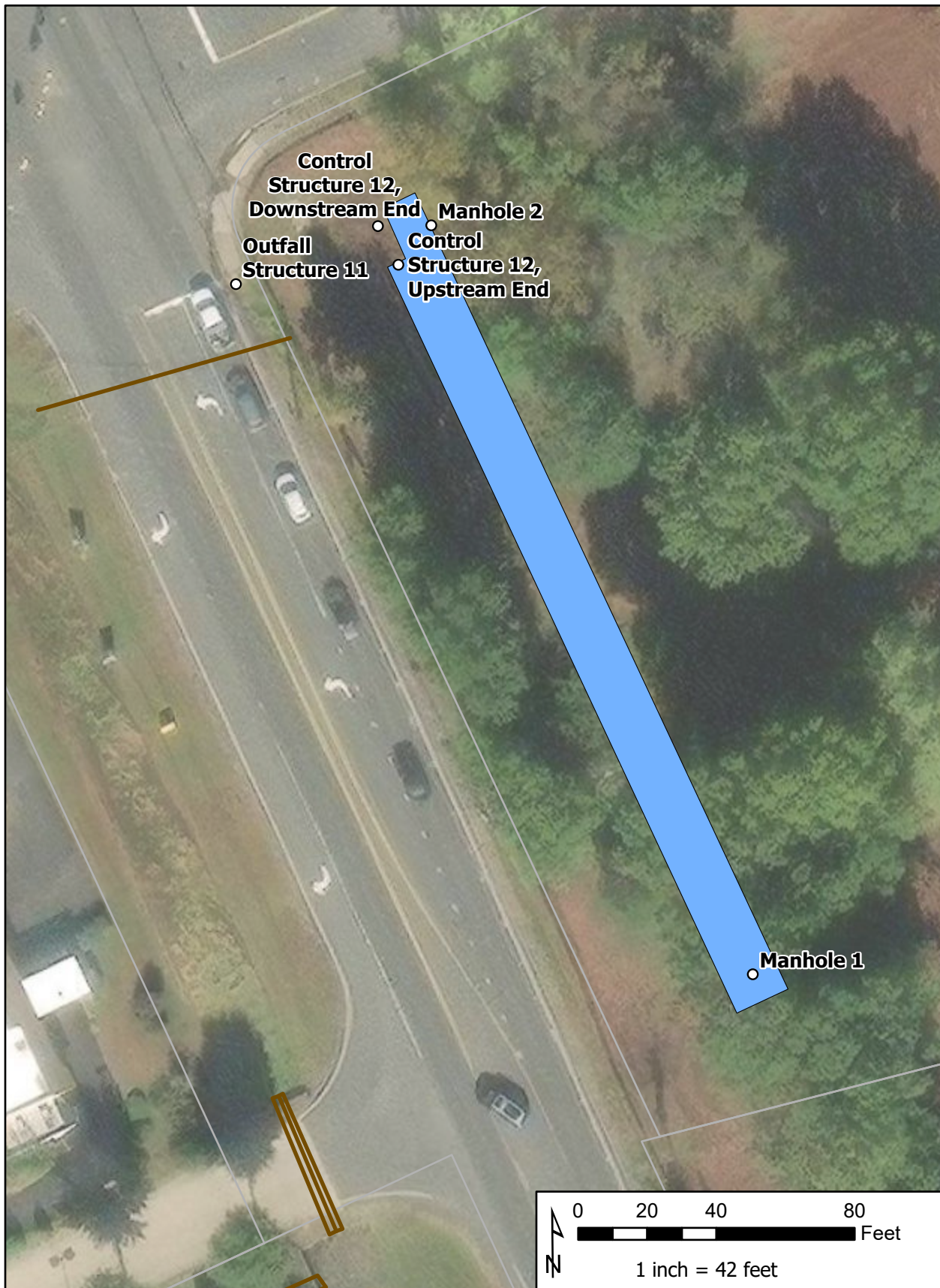




Score	Description	Comment(s) / Corrective Action(s)	Reference Image
Outlet			
2	Buildup of trash, debris, and sediment	Trash, debris, and sediment are beginning to accumulate in the facility's control structure. Monitor this situation to ensure a blockage doesn't occur in the future.	4552, 4553, 4561, 4565, 4566, 4567
3	Damage to outlet pipe or structure	The walls around the outfall pipes in the structure are not sealed. These areas need to be parged with concrete to seal the connections.	4572, 4576
1	Signs of erosion around outlet		
1	Orifice is clogged		
1	Leaking or failing joints		
1	Control Value is functional		

Facility ID: STMF0092396
Facility Name: Goddard School

Inspection Date: 06/28/2023





4549: Facility Overall, looking Northwest.



4550: Top of Manhole 1.



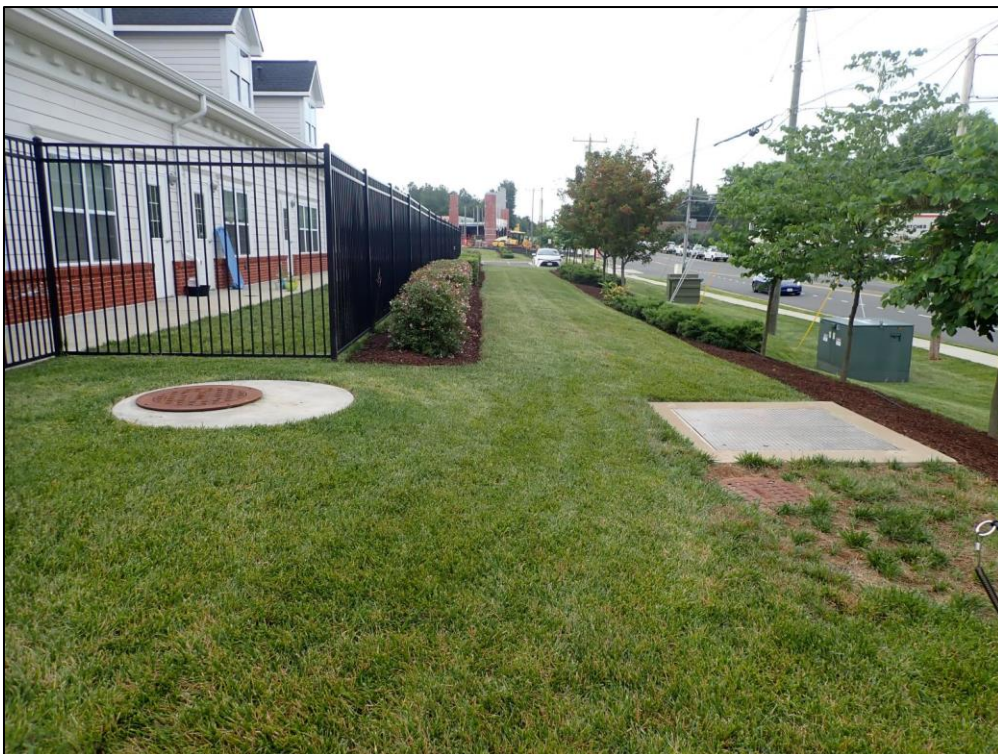
4551: Inside Manhole 1.



4552: Inside Manhole 1, looking upstream toward the Southern detention pipe joint. Buildup of trash, debris, and sediment (Monitor).



4553: Inside Manhole 1, looking downstream along the middle detention pipe. Buildup of trash, debris, and sediment (Monitor).



4554: Facility Overall, looking Southeast.



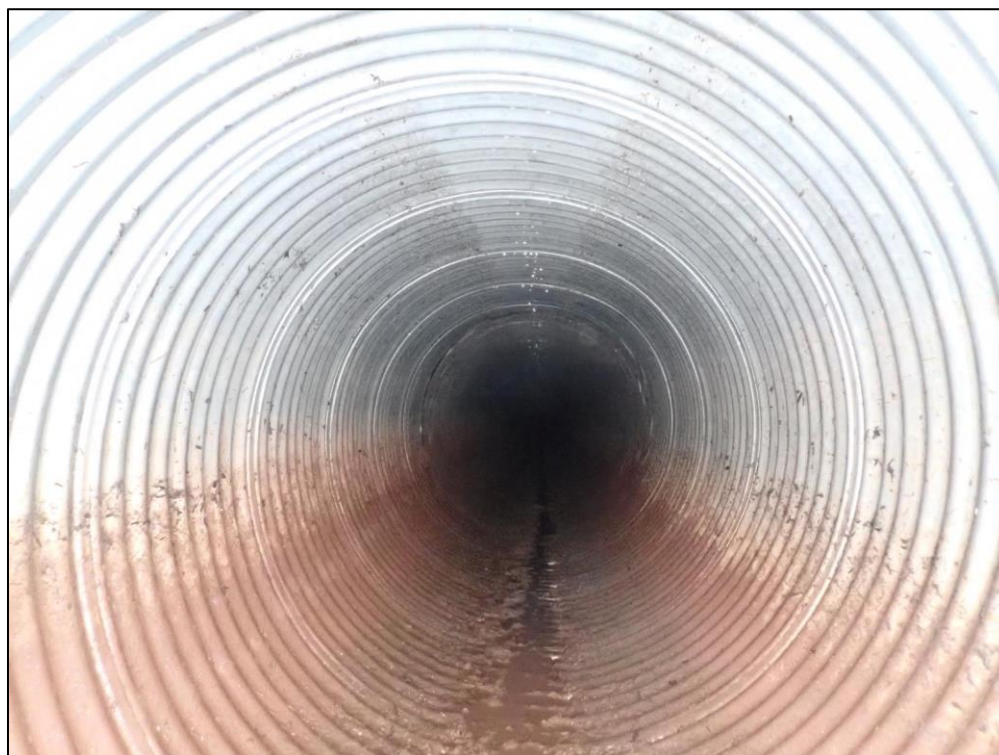
4555: Top of Manhole 2.



4556: Close-up of Manhole 2. Damage to the access hatch and/or ladder; the collar is not bolted down (Immediate Repair Needed).



4557: Inside Manhole 2.



4558: Inside Manhole 2, looking upstream along the Eastern detention pipe.



4559: Inside Manhole 2, looking downstream toward the Northern detention pipe joint.



4560: Top of the upstream end of Control Structure 12.



4561: Inside the upstream end of Control Structure 12. Buildup of trash, debris, and sediment (Monitor).



4562: Inside the upstream end of Control Structure 12, looking upstream toward the Middle detention pipe.



4563: Inside the upstream end of Control Structure 12, looking upstream along the Western detention pipe.



4564: Inside the upstream end of Control Structure 12, looking toward the Weir.



4565: Inside the upstream end of Control Structure 12, looking toward the trash rack. Buildup of trash, debris, and sediment (Monitor).



4566: Inside the upstream end of Control Structure 12, looking toward the low-flow orifice. Buildup of trash, debris, and sediment (Monitor).



4567: Inside the upstream end of Control Structure 12, looking toward the dewatering valve orifice.
Buildup of trash, debris, and sediment (Monitor).



4568: Top of the downstream end of Control Structure 12.



4569: Close-up of the downstream end of Control Structure 12. Inadequate access to complete a thorough inspection; one of the two bolts was stuck (Routine Maintenance Needed).



4570: Top of Outfall Structure 11.



4571: Inside Outfall Structure 11.



4572: Inside Outfall Structure 11, looking South. Damage to outlet pipe or structure, pipe connections are not sealed (Routine Maintenance Needed).



4573: Inside Outfall Structure 11, looking North.



4574: Inside Outfall Structure 11, looking upstream along the Eastern principal spillway pipe.



4575: Inside Outfall Structure 11, looking upstream along the Middle principal spillway pipe.



4576: Inside Outfall Structure 11, looking upstream along the Western principal spillway pipe. Damage to outlet pipe or structure, pipe connections are not sealed (Routine Maintenance Needed).



4577: Inside Outfall Structure 11, looking upstream Northeast.



4578: Inside Outfall Structure 11, looking downstream along the Eastern pipe.



4579: Inside Outfall Structure 11, looking downstream along the Eastern Middle pipe.



4580: Inside Outfall Structure 11, looking downstream toward the Western Middle pipe.



4581: Inside Outfall Structure 11, looking downstream toward the Western pipe.