



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION**

Division of Water Resources

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville TN 37243

1-888-891-8332 (TDEC)

**Compliance Inspection for General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)**

<b>Site/Project Name:</b>	Memphis Regional Megasite (WTP, Site Water, N. Water Tower Project)	<b>NPDES Tracking Number:</b>	TNR122613	
<b>Street Address or Location:</b>	2672 Keeling Road	<b>Date Coverage was Issued:</b>	July 1, 2022	
		<b>Start Date:</b>	June 2022	
<b>Site Description:</b>	construction of water treatment plant, North Water Tower, well development and internal piping of water lines	<b>Estimated End Date:</b>	August 2023	
		<b>Latitude (dd.ddd):</b>	35.4396	
<b>County(ies):</b> Haywood	<b>EFO:</b> Jackson	<b>MS4 Jurisdiction:</b>	<b>Longitude (-dd.ddd):</b>	-89.4299
			<b>Acres Disturbed:</b>	37.69
			<b>Total Acres:</b>	

<b>Name of Permittee (Developer/Operator):</b>	Megasite Authority of West TN
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<b>Name of Official Contact:</b> Clay Bright	<b>Email:</b> Clay.Bright@tn.gov	<b>Contact Phone:</b> 615-430-0538
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<b>Address:</b> 312 Rosa L. Parks Ave TN Tower 22 <sup>nd</sup> Floor	<b>City:</b> Nashville	<b>State:</b> TN	<b>Zip:</b> 37243
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<b>Construction Phase:</b>	<input type="checkbox"/> Site preparation	<input type="checkbox"/> Grading	<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Final Stabilization
<b>Inspection Purpose:</b>	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Follow-up	<input type="checkbox"/> Complaint	<input type="checkbox"/> NOT

	Yes	No	Comments
Have all construction activities stopped and 70% uniform permanent cover established?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

	Yes	No	Comments
<b>Notable impacts to waters as a result of site activities/discharges?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Evidence of insufficiently treated stormwater discharges at outfall locations?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	See comments
<b>Evidence of structural EPSC measure failure/absence?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Evidence of non-structural EPSC measure failure/absence?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See comments
<b>Unauthorized discharges?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Evidence of offsite impacts?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See comments
Evidence of construction buffer disturbance?	<input type="checkbox"/>	<input type="checkbox"/>	NA

Compliance Evaluation: Any Y = recommend NOV/EAR or follow-up - date: \_\_\_\_\_  
 Any Y = recommend follow-up ( email, letter, inspection, etc.) - date: \_\_\_\_\_

	Yes	No	Comments
<b>Are copies of the SWPPP &amp; inspection reports on site or made available?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Has SWPPP been implemented &amp; satisfactory?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are 2/week inspections being performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are inspection reports completed & signed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Primary permittee needs to sign
Are inspection reports filled out by a qualified EPSC inspector?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Compliance Evaluation: Any N = recommend follow-up (email, letter, inspection, etc.) date: \_\_\_\_\_


	Yes	No	Comments
Are there ARAP violations or unauthorized stream/wetland alteration?	<input type="checkbox"/>	<input type="checkbox"/>	N/A

Compliance Evaluation: Y = perform follow-up ARAP inspection - date: \_\_\_\_\_

Notes: See comments below

<b>On-Site Contact (if available)</b>			
<b>On-Site Contact Name (Print):</b>	<b>On-Site Contact Title:</b>	<b>Signature:</b>	<b>Date:</b>

<b>TDEC Personnel/Information</b>	<b>EFO:</b> Memphis EFO
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Inspector's Name (Print): Joellyn Brazile	 Signature:	Date: 7/18/23	8383 Wolf Lake Drive Bartlett, TN 38133
		Time: 10am	

**Comments:**

Routine construction inspection lead by Joellyn Brazile and Gregg Overstreet from DWR. Others from DWR in attendance: Daniel Pillow Angela Jones, Cindy Wheeler, Tim Hill and Annabelle Dempsey. Lead on-site contact: Larry Milton with MegaSite Regional Authority.

**North Water Tower**

- Construction exit installed along with stormwater culvert under exit (photos 1 and 2) as shown on Interim EPSC Plan 800-CE-600.
- Sediment accumulation was observed in ditch/swale downgradient (photo 1) from the culvert, indicating sediment migration from the active construction zone and has potential for discharge off-site.
- Filter ring installed in ditch/swale upgradient (photo 2) from culvert. Ring might need maintenance and re-establishment of rock. Sediment accumulation observed in ditch/swale up and downgradient from filter ring.
- Slope around the North Water Tower was covered with matting and what appeared to be annual grass. Gullies/rills on the slope were observed in a few locations and should be monitored. If slope is at grade, perennial vegetation should be established.

**Wells**

- Water line installation in between Well #7 and Well #6 (photo 3). Area had been seeded and covered with blown hay. EPSC plans denote “Stream Crossing” but doesn’t appear to be a “stream” but rather a wet weather conveyance. Permanent entrance will be placed to the east of the existing access location. EPSC Plan Sheet 600-CE-614. EPSC plans should be updated to reflect this change.
- Area around Well #6 had been seeded and covered with blown hay.
- Well #1 appeared to have EPSC installed per plans.
- Other wells not observed during inspection.


**Water Treatment Plant**

- Erosion gully observed on north side of site, south of sediment trap #1, east of western entrance (photo 5). Area was covered with seed and blown hay. EPSC Plan Sheet 700-CE-600
- Sediment Trap #1-check dam installed and area was covered with seed and blown hay (photo 6). EPSC Plan Sheet 700-CE-600
- Discharge point of Sediment Trap #1 and Sediment Trap #2 at northeast corner of site (photo 7). Check dams installed and area covered with seed and blown hay.
- Erosion gullies/rills were observed along the drainage ditch on the eastern edge of the site. Vegetative cover was sparse. Check dam at southeast corner observed installed. EPSC Plan Sheet 700-CE-600
- Stockpiles located nearest to plant and stockpile south of Well #1 appeared to be sufficiently vegetated.
- East side of Fredonia Road, southwest of WTP-area was not sufficiently stabilized (photo 10). Sediment accumulation was observed in roadside ditch downgradient (photo 11).

**Distribution Lines**


- Water lines from end of Fredonia Road to South Water Tower completed. Area is actively under construction by Ford activities.
- Water line installation from South Water Tower to Wastewater Treatment Plant (WWTP) has not started yet. Will start at WWTP.
- Water line installation adjacent to Well #3 (photo 4). Check dams installed in wet weather conveyance.


# Photographic Log

<b>Project:</b>		<b>Site Location:</b>	<b>Permit No.:</b>
Memphis Regional Megasite (WTP, Site Water, N. Water Tower Project)		2672 Keeling Road	TNR122613
<b>Photo No.</b>	<b>Date</b>	DIRECTION      35.43937°N 347 deg(T)      089.41060°W      ACCURACY 11-m DATUM WGS84	
1	7/18/23		
<b>Description</b> North Water Tower: Stormwater culvert downgradient/east of the access road/construction exit at the North Water Tower location. Sediment accumulation was observed in ditch/swale downgradient from the culvert, indicating sediment migration from the active construction zone and potential discharge off-site. Sheet 800-CE-600			
		2023-07-18 11:12:14-04:00	


<b>Photo No.</b>	<b>Date</b>	DIRECTION      35.43946°N 341 deg(T)      089.41092°W      ACCURACY 8 m DATUM WGS84	
2	7/18/23		
<b>Description</b> North Water Tower: Filter ring installed upgradient of culvert. Ring might need maintenance and re-establishment of rock. Sediment accumulation observed in ditch/swale. Sheet 800-CE-600			
		2023-07-18 11:20:33-04:00	


# Photographic Log

<b>Project:</b> Memphis Regional Megasite (WTP, Site Water, N. Water Tower Project)		<b>Site Location:</b> 2672 Keeling Road	<b>Permit No.:</b> TNR122613
<b>Photo No.</b> 3	<b>Date</b> 7/18/23		<div style="background-color: #cccccc; padding: 2px; font-size: small;"> DIRECTION 35.43936°N ACCURACY 6 m  279 deg(T) 089.41161°W DATUM WGS84 </div>  <div style="text-align: right; font-size: x-small; margin-top: 5px;"> 2023-07-18  11:22:48-04:00 </div>
<b>Description</b> Water line installation in between Well #7 and Well #6. Area had been seeded and covered with blown hay. EPSC plans denote "Stream Crossing", but doesn't appear to be a "stream" but rather a wet weather conveyance 9 (WWC 9) per NRS22.127 application. Sheet 600-CE-614			

<b>Photo No.</b> 4	<b>Date</b> 7/18/23		<div style="background-color: #cccccc; padding: 2px; font-size: small;"> DIRECTION 35.43980°N ACCURACY 10 m  173 deg(T) 089.42515°W DATUM WGS84 </div>  <div style="text-align: right; font-size: x-small; margin-top: 5px;"> 2023-07-18  11:37:28-04:00 </div>
<b>Description</b> Well #3 area. Wet weather conveyance (WWC) immediately east of well. Check dams installed in the WWC. Sheet 600-CE-610			


# Photographic Log

<b>Project:</b> Memphis Regional Megasite (WTP, Site Water, N. Water Tower Project)		<b>Site Location:</b> 2672 Keeling Road	<b>Permit No.:</b> TNR122613
<b>Photo No.</b> 5	<b>Date</b> 7/18/23		
<b>Description</b> Water Treatment Plant: Erosion gully observed on north side of site, south of sediment trap #1, east of western entrance. Area was covered with seed and blown hay. Sheet 700-CE-600			

<b>Photo No.</b> 6	<b>Date</b> 7/18/23		
<b>Description</b> Water Treatment Plant: Sediment Trap #1-check dam installed and area was covered with seed and blown hay. Sheet 700-CE-600			

# Photographic Log

<b>Project:</b> Memphis Regional Megasite (WTP, Site Water, N. Water Tower Project)		<b>Site Location:</b> 2672 Keeling Road	<b>Permit No.:</b> TNR122613
<b>Photo No.</b> 7	<b>Date</b> 7/18/23	DIRECTION 63 deg(T)	35.43967°N 089.42992°W ACCURACY 10 m DATUM WGS84
<b>Description</b> Water Treatment Plan: Discharge point of Sediment Trap #1 and Sediment Trap #2 at northeast corner of site. Check dams installed and area covered with seed and blown hay. Sheet 700-CE-600			
		2023-07-18 11:47:38-04:00	

<b>Photo No.</b> 8	<b>Date</b> 7/18/23	DIRECTION 104 deg(T)	35.43896°N 089.42985°W ACCURACY 18 m DATUM WGS84
<b>Description</b> Water Treatment Plant: Erosion gullies/rills were observed along the drainage ditch on the eastern edge of the site. Vegetative cover was sparse. Sheet 700-CE-600			
		2023-07-18 11:50:40-04:00	

# Photographic Log


<b>Project:</b> Memphis Regional Megasite (WTP, Site Water, N. Water Tower Project)		<b>Site Location:</b> 2672 Keeling Road	<b>Permit No.:</b> TNR122613
<b>Photo No.</b> 9	<b>Date</b> 7/18/23	<b>DIRECTION</b> 156 deg (T)	<b>35.43853°N</b> <b>089.42988°W</b>
<b>Description</b> Water Treatment Plant: Erosion gullies/rills were observed along the drainage ditch on the eastern edge of the site. Vegetative cover was sparse. Check dam at southeast corner observed as shown on plans. Sheet 700-CE-600		<b>ACCURACY 12 m</b> <b>DATUM WGS84</b>	
		2023-07-18 11:51:40-04:00	



<b>Project:</b> Memphis Regional Megasite (WTP, Site Water, N. Water Tower Project)		<b>Site Location:</b> 2672 Keeling Road	<b>Permit No.:</b> TNR122613
<b>Photo No.</b> 10	<b>Date</b> 7/18/23	<b>DIRECTION</b> 94 deg (T)	<b>35.43858°N</b> <b>089.43383°W</b>
<b>Description</b> East side of Fredonia Road, southwest of WTP. Area was not sufficiently stabilized. Sediment accumulation was observed in roadside ditch downgradient (photo 11).		<b>ACCURACY 11 m</b> <b>DATUM WGS84</b>	
		2023-07-18 12:05:39-04:00	



# Photographic Log

<b>Project:</b> Memphis Regional Megasite (WTP, Site Water, N. Water Tower Project)		<b>Site Location:</b> 2672 Keeling Road	<b>Permit No.:</b> TNR122613
<b>Photo No.</b> 11	<b>Date</b> 7/18/23	<div style="background-color: #cccccc; padding: 2px; font-size: small;">           DIRECTION      35.43819°N      ACCURACY 5 m            153 deg(T)      089.43403°W      DATUM WGS84         </div>  <div style="background-color: #cccccc; padding: 2px; font-size: x-small; text-align: right;">           2023-07-18            12:06:24-04:00         </div>	
<b>Description</b> Sediment accumulation in roadside ditch downgradient from east side of Fredonia Road, southwest of WTP. Area was not sufficiently stabilized.			