

From: [Jim McAdoo](#)
To: [Elizabeth Rorie](#)
Subject: FW: HTNOI (2) - East Tennessee Natural Gas, LLC - 2016 Knoxville Runway 12 Pipeline Relocation Project
Date: Tuesday, August 02, 2016 9:54:11 AM

Beth,

Process these hydrostatic NOIs to site ID#31534.

Jim McAdoo

Water-Based Systems
Division of Water Resources
William R. Snodgrass TN Tower 11th Floor
312 Rosa L. Parks Avenue
Nashville, TN 37243

615.532.0684 (O)
615.532.0686 (F)
Jim.McAdoo@tn.gov

From: Sharon Brown [mailto:srbrown@D30043642.purehost.com]
Sent: Tuesday, August 02, 2016 9:24 AM
To: Jim McAdoo
Cc: Miller, Alex V; srbrown@environment-archaeology.com
Subject: HTNOI (2) - East Tennessee Natural Gas, LLC - 2016 Knoxville Runway 12 Pipeline Relocation Project

***** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. *****

Mr. McAdoo,

Please find attached two HTNOI's for the East Tennessee Natural Gas, LLC - 2016 Knoxville Runway 12 Pipeline Relocation Project in Blount County, Tennessee. If you have any questions or need additional information, please let me know.

Thank you,
Sharon Brown
Vice President

Environment & Archaeology, LLC

9219 Middlebrook Pike, Suite 200B

Knoxville, TN 37931

Office: (865) 560-1601

Main Office (KY): (859) 746-1778

<http://www.environment-archaeology.com/>

August 2, 2016

Tennessee Department of Environment and Conservation
Knoxville Environmental Field Office
3711 Middlebrook Pike
Knoxville, TN 37921
Jim.McAdoo@tn.gov

RE: *Hydrostatic Test Water Notice of Intent (2)*
 East Tennessee Natural Gas, LLC
 2016 Knoxville Runway 12 Pipeline Relocation Project in Blount County, Tennessee

Dear Mr. McAdoo:

On behalf of East Tennessee Natural Gas, LLC (ETNG), *Environment & Archaeology, LLC* has prepared the attached Hydrostatic Test Water Notice of Intent forms (2) for the hydrostatic testing of one (1) pipeline segment on LN 3200 in Blount County, Tennessee (Figure 1). The purpose of the hydrostatic testing is to verify the integrity of the newly installed pipeline.

ETNG is planning to perform two (2) hydrostatic tests of the same pipeline, as follows:

Test 1 – Pre-test of approximately 740 feet of 12-inch diameter new natural gas pipeline. The pipeline is being tested prior to being installed within a new natural gas pipeline trench via horizontal directional drill. A total of 4,065 gallons of municipal water will be utilized for the hydrostatic test. The test will occur on or near September 12, 2016.

Test 2 – Test will be performed following the installation of approximately 1,532 feet of 12-diameter new natural gas pipeline within the new pipeline trench. A total of 8,732 gallons of municipal water will be utilized for the hydrostatic test. The test will occur on or near September 23, 2016.

Both Test 1 and Test 2 will discharge within an upland area on or directly adjacent to ETNG's pipeline right-of-way (ROW) within the McGhee Tyson Airport grounds. The hydrostatic outfalls are located approximately 2,000 feet northeast of an unnamed perennial tributary to Lackey Creek.

ETNG will adhere to discharge conditions outlined in the ETNG Erosion and Sedimentation Control Plan (E and SC Plan). Applicable portions of the E and SC Plan have been attached for review. A detailed description of the project components associated with the proposed hydrostatic testing is located in Table 1.

TDEC – HTNOI
ETNG – 2016 Knoxville Runway 12 Pipeline Relocation Project
Page 2

We respectfully request that you review the attached Notice of Intent forms and issue a notice of coverage under the general permit. If you have any questions regarding this project please contact Alex Miller of ETNG at (713) 627-5653 or myself at (865) 560-1601.

Sincerely,

A handwritten signature in cursive script that reads "Sharon Brown".

Sharon Brown
Vice President

Attachments

cc: Mr. Alex Miller, ETNG

Table 1. Summary of Hydrostatic Testing Components

Line Number	Pipeline Diameter (inches)	Used or New Pipe	Length	Volume of Water Required (gallons)	Water Source	Discharge Location
TEST 1						
3200	12	New	740 feet	4,065	Municipal	Approximate outfall site: 35.815010, -83.995255
TEST 2						
3200	12	New	1,532 feet	8,732	Municipal	Approximate outfall site: 35.815010, -83.995255
Total	--	--	2,272 feet	12,797	--	--

HTNOI FORMS



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
WILLIAM R. SNODGRASS - TENNESSEE TOWER
312 ROSA L. PARKS AVENUE, 11TH FLOOR
NASHVILLE, TENNESSEE 37243-1102

NOTICE OF INTENT (NOI) for discharges of HYDROSTATIC TEST WATER

Site Name: 2016 Knoxville Runway 12 Pipeline Relocation Project - Test 1		Existing Tracking No:
Street Address or Location: McGhee Tyson Airport, 2055 Alcoa Hwy., Alcoa, Tennessee 37701		Latitude: 35.815010
		Longitude: -83.995255
County (ies): Blount	Attach a site location map	☒ Map attached
Name and distance to nearest receiving waters: Unnamed perennial trib. to Lackey Creek, ~2,000 feet to SW of outfall location		

Owner or Operator: (the person or legal entity which controls the site's operation; this may or may not be the same as the site name or the official contact name)				
1	Official Contact Person Name: (individual responsible for a site) Tina Faraca	Title or Position: VP of Engineering and Construction		
	Mailing Address: 5400 Westheimer Court	City: Houston	State: TX	Zip: 77056
	Phone: 713-627-5653	E-mail: AVMiller@spectraenergy.com		
2	Local Contact Person Name: (if appropriate, write "same as #1") Alex Miller	Title or Position: Environmental Project Manager		
	Site Address: (this may or may not be the same as street address) McGhee Tyson Airport, 2055 Alcoa Hwy.	Site City: Alcoa	State: TN	Zip: 37701
	Phone: 713-627-5653	E-mail: AVMiller@spectraenergy.com		
Write in the box (to the right) or circle the number (above) to indicate where to send correspondence: 1				

PROCESS DESCRIPTION (Reply on a separate page, if necessary)

A brief description of the facility or vessel to be tested: ETNG is planning to hydrostatically test approximately 740 feet of new twelve (12)-inch diameter natural gas pipeline, Line 3200, in Blount County, TN.	
Is the vessel to be tested new or used? ☒ new ☐ used	
Estimate of the volume of hydrostatic test water to be discharged. 4,065 gallons	
Source of the test water. Municipal	
A description of material that has been contained in the vessel, if the vessel has already been in use. N/A	
Estimated dates of testing, frequency of tests, and duration. Hydrostatic testing is proposed to occur on September 12, 2016. Once started, discharge will be completed within 24 hours.	
A brief description of Best Management Practices (BMPs) and/or treatment of the hydrostatic test water discharges. ETNG will comply with the conditions outlined in the ETNG Erosion and Sedimentation Control Plan. Applicable portions of this Plan have been attached for review.	
Indicate how long you wish to be covered under this general permit; the division will establish a 12 month term of coverage unless you request a longer time. Please note that coverage under this permit cannot extend beyond the expiration date of the general permit (March 15, 2016). ☐ 2 years ☐ 3 years ☐ 4 years ☐ 5 years	

STATE USE ONLY

Received Date	Reviewer	EFO	Tracking No. TNG67	High Quality Water
Fee(s)	T & E Aquatic Fauna	Impaired Receiving Stream	NOC Date	

HYDROSTATIC TEST WATER NOI

Site Name: **2016 Knoxville Runway 12 Pipeline Relocation Project - Test 1**

Tracking No:

For used sections of natural gas pipeline, permit TNG670000 establishes a limit on the concentration of PCBs in the hydrostatic test water discharge unless the discharger certifies that PCBs have never been used on the pipeline or their presence indicated in the pipeline, as follows:

Polychlorinated Biphenyls (PCBs) have never been used in compressors or other equipment on the pipeline of which the above-described section is a part, nor has the presence of PCBs been indicated in the pipeline of which the above-described section is a part.

Tina Faraca

VP Eng & Construction

Signature

8/2/2016

Printed Name

Official Title

Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury

Tina Faraca

VP Eng & Construction

Signature

8/2/2016

Printed Name

Official Title

Date

INSTRUCTIONS

Complete the form Type or print clearly, using black or blue ink; not markers or pencil. Answer each item or enter "N/A," for not applicable. If you need additional space, attach a separate piece of paper to the hydrostatic NOI (Notice of Intent). **Requesting coverage under this permit means that an applicant has obtained and examined a copy of this permit, and thereby acknowledges applicant's ability to be in compliance with permit terms and conditions.** This permit is required for discharges of hydrostatic test water. This form should be submitted at least 30 days prior to the commencement of hydrostatic testing activities.

Permittee Identification/Facility Identification Describe and locate the project, use the legal or official name of the facility or site. Provide the latitude and longitude (expressed in decimal degrees) of the center of the site, which can be located on USGS quadrangle maps. Attach a copy of a portion of a 7.5 minute quad map, showing location of site, with boundaries at least one mile outside the site boundaries.

Give the name(s) of receiving waters Trace the route of hydrostatic test water runoff from the site and determine the name of the river(s), stream(s), creek(s), wetland(s), lake(s) or any other water course(s) into which the hydrostatic test water drains. Note that the receiving water course may or may not be located on the site. If the first water body receiving test water discharge is unnamed ("unnamed tributary"), determine the name of the water body which the unnamed tributary enters.

Submitting the form and obtaining more information Note that this form must be signed by the company President, Vice-President, or a ranking elected official in the case of a municipality, for details see subpart **Error! Reference source not found.** of the general permit. For more information, contact your local EFO, toll-free, at 1-888-891-8332 (TDEC). Submit the completed NOI form (keep a copy for your records) to the appropriate EFO for the county(ies) where the hydrostatic testing activity is located.

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	1301 Riverfront Parkway, Suite 206	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 432-4015
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000

Notice of Coverage The division will review the NOI for completeness and accuracy and transmit to the permittee a Notice of Coverage (NOC) and Discharge Monitoring Report (DMR) form.



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
WILLIAM R. SNODGRASS - TENNESSEE TOWER
312 ROSA L. PARKS AVENUE, 11TH FLOOR
NASHVILLE, TENNESSEE 37243-1102

NOTICE OF INTENT (NOI) for discharges of HYDROSTATIC TEST WATER

Site Name: 2016 Knoxville Runway 12 Pipeline Relocation Project - Test 2		Existing Tracking No:
Street Address or Location: McGhee Tyson Airport, 2055 Alcoa Hwy., Alcoa, Tennessee 37701		Latitude: 35.815010
		Longitude: -83.995255
County (ies): Blount	Attach a site location map ☒ Map attached	
Name and distance to nearest receiving waters: Unnamed perennial trib. to Lackey Creek, ~2,000 feet to SW of outfall location		

Owner or Operator: (the person or legal entity which controls the site's operation; this may or may not be the same as the site name or the official contact name)				
1	Official Contact Person Name: (individual responsible for a site) Tina Faraca		Title or Position: VP of Engineering and Construction	
	Mailing Address: 5400 Westheimer Court		City: Houston	State: TX Zip: 77056
	Phone: 713-627-5653		E-mail: AVMiller@spectraenergy.com	
2	Local Contact Person Name: (if appropriate, write "same as #1") Alex Miller		Title or Position: Environmental Project Manager	
	Site Address: (this may or may not be the same as street address) McGhee Tyson Airport, 2055 Alcoa Hwy.		Site City: Alcoa	State: TN Zip: 37701
	Phone: 713-627-5653		E-mail: AVMiller@spectraenergy.com	
Write in the box (to the right) or circle the number (above) to indicate where to send correspondence: 1				

PROCESS DESCRIPTION (Reply on a separate page, if necessary)

A brief description of the facility or vessel to be tested: ETNG is planning to hydrostatically test approximately 1,532 feet of new twelve (12)-inch diameter natural gas pipeline, Line 3200, in Blount County, TN.	
Is the vessel to be tested new or used? ☒ new ☐ used	
Estimate of the volume of hydrostatic test water to be discharged. 8,732 gallons	
Source of the test water. Municipal	
A description of material that has been contained in the vessel, if the vessel has already been in use. N/A	
Estimated dates of testing, frequency of tests, and duration. Hydrostatic testing is proposed to occur on September 23, 2016. Once started, discharge will be completed within 24 hours.	
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Indicate how long you wish to be covered under this general permit; the division will establish a 12 month term of coverage unless you request a longer time. Please note that coverage under this permit cannot extend beyond the expiration date of the general permit (March 15, 2016). ☐ 2 years ☐ 3 years ☐ 4 years ☐ 5 years	

STATE USE ONLY

Received Date	Reviewer	EFO	Tracking No. TNG67	High Quality Water
Fee(s)	T & E Aquatic Fauna		Impaired Receiving Stream	NOC Date

HYDROSTATIC TEST WATER NOI

Site Name: 2016 Knoxville Runway 12 Pipeline Relocation Project - Test 2	Tracking No:
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For used sections of natural gas pipeline, permit TNG670000 establishes a limit on the concentration of PCBs in the hydrostatic test water discharge unless the discharger certifies that PCBs have never been used on the pipeline or their presence indicated in the pipeline, as follows:

Polychlorinated Biphenyls (PCBs) have never been used in compressors or other equipment on the pipeline of which the above-described section is a part, nor has the presence of PCBs been indicated in the pipeline of which the above-described section is a part.

Tina Faraca	VP Eng & Construction		8/2/2016
Printed Name	Official Title	Signature	Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury

Tina Faraca	VP Eng & Construction		8/2/2016
Printed Name	Official Title	Signature	Date

INSTRUCTIONS

Complete the form Type or print clearly, using black or blue ink; not markers or pencil. Answer each item or enter "N/A," for not applicable. If you need additional space, attach a separate piece of paper to the hydrostatic NOI (Notice of Intent). **Requesting coverage under this permit means that an applicant has obtained and examined a copy of this permit, and thereby acknowledges applicant's ability to be in compliance with permit terms and conditions.** This permit is required for discharges of hydrostatic test water. This form should be submitted at least 30 days prior to the commencement of hydrostatic testing activities.

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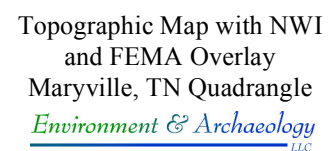
Give the name(s) of receiving waters Trace the route of hydrostatic test water runoff from the site and determine the name of the river(s), stream(s), creek(s), wetland(s), lake(s) or any other water course(s) into which the hydrostatic test water drains. Note that the receiving water course may or may not be located on the site. If the first water body receiving test water discharge is unnamed ("unnamed tributary"), determine the name of the water body which the unnamed tributary enters.

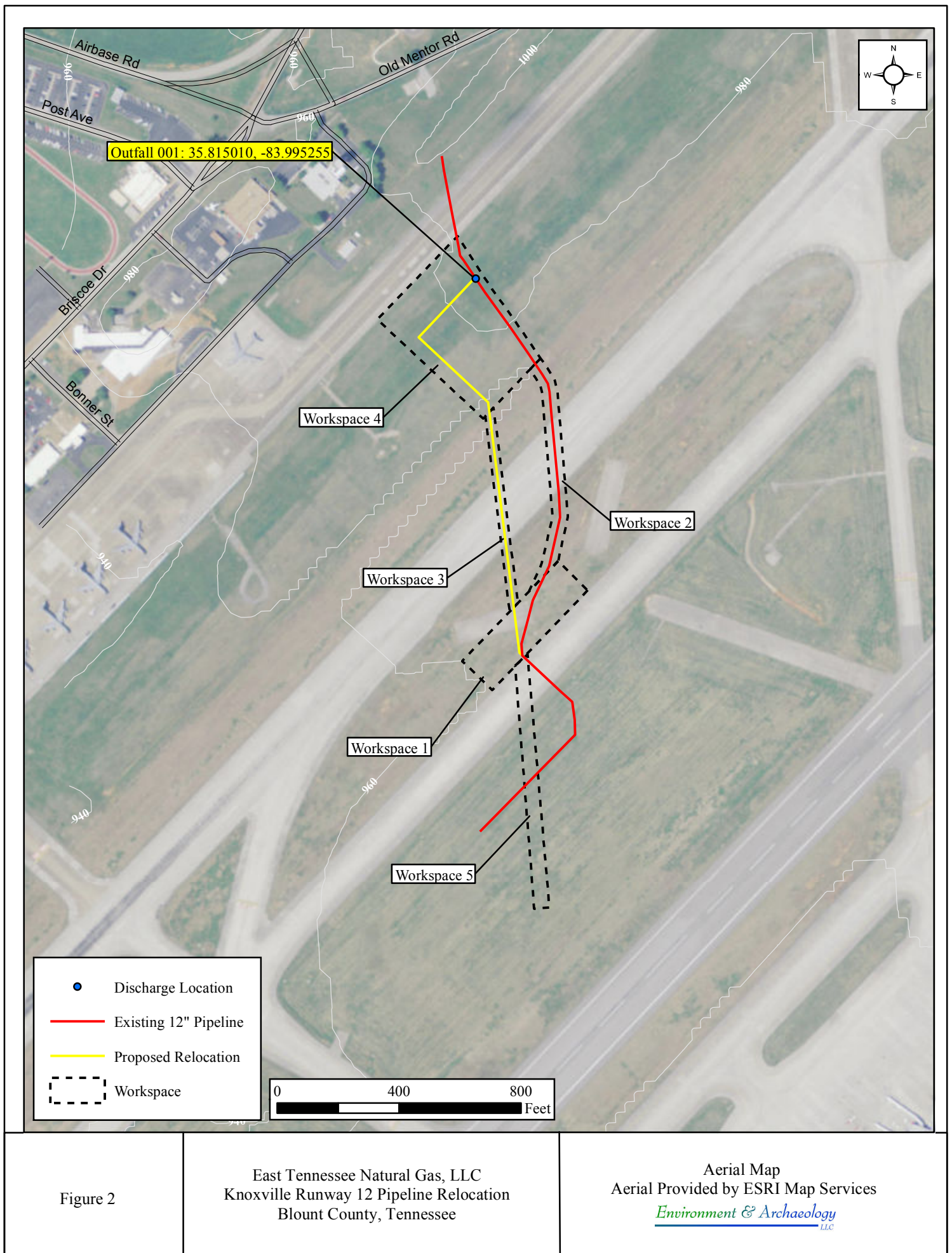
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Cookeville	1221 South Willow Ave	Cookeville	38506	(931) 432-4015
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000

Notice of Coverage The division will review the NOI for completeness and accuracy and transmit to the permittee a Notice of Coverage (NOC) and Discharge Monitoring Report (DMR) form.

**USGS TOPOGRAPHIC MAP &
AERIAL MAP**





EROSION AND SEDIMENTATION CONTROL PLAN

required to prevent damage to the pipe. This padding material will generally consist of sand or screened spoil materials from trench excavation.

1. Under no circumstances shall topsoil be used as padding material.
2. Excess rock, including blast rock, may be used to backfill the trench to the top of the existing bedrock profile in accordance with Company specifications. Rock that is not used to backfill the trench will be treated as described in Section 3.5.3.3.
3. Any excess material will be spread within the ROW in upland areas and land contours will be roughed-in to match adjacent topography.
4. The trench may be backfilled with a crown over the pipe to compensate for compaction and settling. Openings will be left in the completed trench crown to restore pre-construction drainage patterns. Crowning shall not be used in wetland areas.

3.5.8.1 Permanent Trench Plugs

Permanent trench plugs are intended to slow subsurface water flow and erosion along the trench and around the pipe in sloping terrain (Figures 16, 17). Permanent trench plugs will be constructed with sand bags or an equivalent as identified in the permit requirements. On severe slopes greater than 30 percent, "Sakrete" may be used at the discretion of the Chief Inspector.

- a. Topsoil shall not be used to construct trench plugs.
- b. Permanent trench plugs, which are used in conjunction with interceptor dikes, shall be installed at the locations shown on the construction drawings or as determined by the EI. If not shown, use the following spacing:

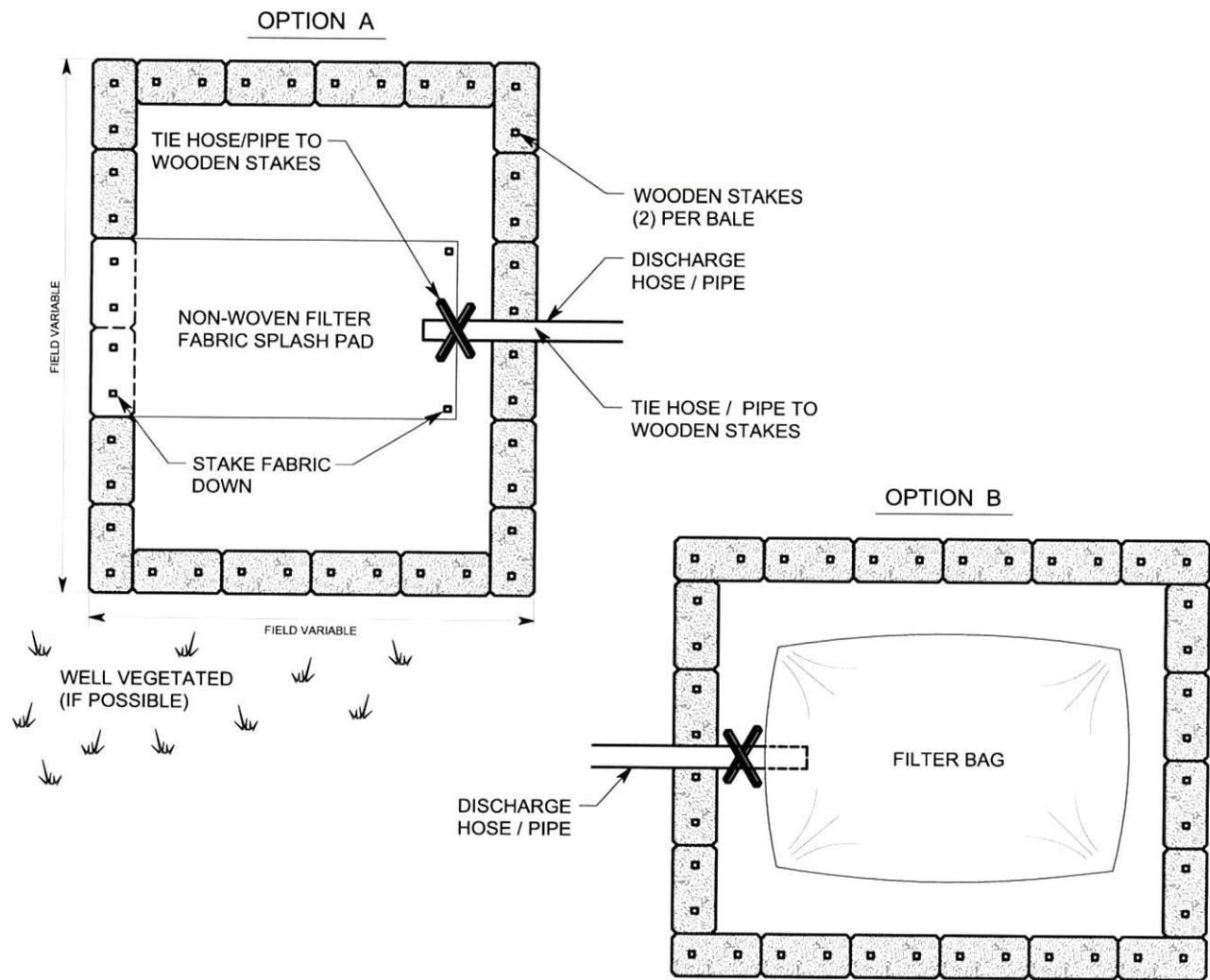
<u>Slope (%)</u>	<u>Spacing (feet)</u>
<5	No Structure
5 - 15	300
> 15 - 30	200
> 30	100

- c. Trench plugs shall be installed at the base of slopes adjacent to waterbodies and wetlands, and where needed to avoid draining of a resource.

3.5.9 Hydrostatic Testing

Once the pipeline is completed and before it is placed into service, it will be hydrostatically tested for structural integrity. Hydrostatic testing involves filling the pipeline with clean water and maintaining a test pressure in excess of normal operating pressures for a specified period of time (typically 8 hours). The testing procedure involves filling the pipeline with test water, performing the pressure test, and discharging the test water.

1. The EI shall notify appropriate state agencies (as identified in the Hydrostatic Test Package) of the intent to use specific test water sources at least 48 hours before testing activities (unless waived in writing).
2. Pumps used for hydrostatic testing within 100 feet of any waterbody or wetland shall be operated and refueled in accordance with the SPCC Plan.
3. Do not use state-designated exceptional value waters, waterbodies that provide habitat for federally listed threatened or endangered species, or waterbodies designated as public water supplies, unless appropriate federal, state, and/or local permitting agencies grant written permission. Use only the water sources identified in the Clearance Package/Permit Book.
4. Screen the intake hose to prevent entrainment of fish and other aquatic life.
5. Maintain ambient, downstream flow rates to protect aquatic life, provide for all waterbody uses, and provide for downstream withdrawals of water by existing users.
6. Locate hydrostatic test manifolds outside wetlands and riparian areas to the greatest extent practical.
7. For an overland discharge of test water from a new pipeline, dewater into an energy dissipation device constructed of straw bales (Figures 18, 19).
8. For an overland discharge of test water from an existing pipeline, dewater into an energy dissipation device constructed of straw bales and absorbent booms (Figure 18). If required by the appropriate permitting agency, the test water may be discharged through an appropriate filtration system including frac tanks and/ or carbon filters.
9. Dewater only at the locations shown on the construction drawings or locations identified in the Hydrostatic Test Package.
10. Locate all dewatering structures in a well-vegetated and stabilized area, if practical, and attempt to maintain at least a 50-foot vegetated buffer from adjacent waterbody/wetland areas. If an adequate buffer is not available, sediment barriers or similar erosion control measure must be installed.
11. Regulate discharge rate, use energy dissipation device(s), and install sediment barriers, as necessary, to prevent erosion, streambed scour to aquatic resources, suspension of sediments, flooding or excessive stream flow.
12. Do not discharge into state-designated exceptional value waters, waterbodies which provide habitat for federally listed threatened or endangered species, or waterbodies designated as public water supplies, unless appropriate federal, state, and local permitting agencies grant written permission.
13. The EI shall sample and test the source water and discharge water in accordance with the permit requirements.

NOTES:

1. SIZE AND DIMENSION OF DEWATERING STRUCTURE, INCLUDING NUMBER OF STRAW BALES USED, WILL VARY DEPENDING ON VOLUME OF WATER DISCHARGED, RATE OF DISCHARGE AND SITE CONDITIONS, SUCH AS THE TYPE AND AMOUNT OF SEDIMENT WITHIN THE DISCHARGE WATER.
2. PREVENT EROSION, STREAMBED SCOUR, SUSPENSION OF SEDIMENTS AND EXCESSIVE STREAMFLOW BY PROPER DESIGN OF STRUCTURE, REGULATING THE WATER DISCHARGE RATE AS WELL AS USE OF ENERGY DISSIPATION DEVICE(S) AND SEDIMENT BARRIERS, AS NECESSARY.
3. MONITOR AND CONDUCT DISCHARGES IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY OR WETLAND.
4. DO NOT DEPOSIT SAND, SILT, AND/OR SEDIMENT INTO SENSITIVE ENVIRONMENTAL RESOURCE AREAS, INCLUDING WETLANDS, WATERBODIES, CULTURAL RESOURCE SITES, AND SENSITIVE SPECIES HABITATS. STOP DEWATERING ACTIVITIES IF SUCH DEPOSITION IS OCCURRING AND ENSURE THE DESIGN OF THE DISCHARGE IS CHANGED TO PREVENT REOCCURRENCE.
5. ABSORBENT BOOMS MUST BE USED DURING DISCHARGES FROM EXISTING / USED PIPE OR AS DIRECTED BY PERMIT REQUIREMENTS.
6. FILTER BAGS SHOULD BE INSTALLED ACCORDING TO THE DETAILS SHOWN IN "FILTER BAG" FIGURE.
7. REMOVE STRUCTURE AS SOON AS PRACTICABLE AFTER COMPLETION OF WATER DISCHARGES.

**OPTIONS FOR SMALL WATER
DISCHARGES**

FIGURE WD-3

DWG. **ES-0027**

REV.