

OVERVIEW AND USER INSTRUCTIONS



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DISCLAIMER

This document is intended solely to assist federal broadband grant recipients and subgrantees in better understanding Infrastructure Investment and Jobs Act (IIJA) broadband grant programs and the requirements set forth in the Notice of Funding Opportunity (NOFO) for this program. This document does not and is not intended to supersede, modify, or otherwise alter applicable statutory or regulatory requirements, the terms and conditions of the award, or the specific application requirements set forth in the NOFO. In all cases, statutory and regulatory mandates, the terms and conditions of the award, the requirements set forth in the NOFO, and follow-on policies and guidance, shall prevail over any inconsistencies contained in this document.

NTIA's ArcGIS Pro Permitting and Environmental Information Tool (APPEIT) should be used for informational purposes only and is intended solely to assist users with preliminary identification of broadband deployments that may require permits or planning to avoid potentially significant impacts to environmental resources subject to the National Environmental Policy Act (NEPA) and other statutory requirements.

The tool is not an exhaustive or complete resource and does not and is not intended to substitute for, supersede, modify, or otherwise alter any applicable statutory or regulatory requirements, or the specific application requirements set forth in any NTIA NOFO, Terms and Conditions, or Special Award Condition. In all cases, statutory and regulatory mandates, and the requirements set forth in NTIA grant documents, shall prevail over any inconsistencies contained in these templates.

The tool relies on publicly available data available on the websites of other federal, state, local, and Tribal agencies, and in some instances, private organizations and research institutions. Layers identified with a double asterisk include information relevant to determining if an "extraordinary circumstance" may warrant more detailed environmental review when a categorical exclusion may otherwise apply. While NTIA continues to make amendments to its websites to comply with Section 508, NTIA cannot ensure Section 508 compliance of federal and non-federal websites or resources users may access from links on NTIA websites.

All data is presented "as is," "as available" for informational purposes. NTIA does not warrant the accuracy, adequacy, or completeness of this information and expressly disclaims liability for any errors or omissions.

Please e-mail NTIAanalytics@ntia.gov with any questions.



PURPOSE AND OVERVIEW

The Department of Commerce's National Telecommunications and Information Administration (NTIA) is providing the ArcGIS Pro Permitting and Environmental Information Tool (APPEIT) to help federal broadband grant recipients and subgrantees identify permits and environmental factors as they plan routes for their broadband deployments. Identifying permit requirements early, initiating pre-application coordination with permitting agencies, and avoiding environmental impacts help drive successful infrastructure projects.

NTIA's public release of the APPEIT tool supports government-wide efforts to improve permitting and explore how online and digital technologies can promote efficient environmental reviews.

INTRODUCTION TECHNICAL DESCRIPTION

This Esri ArcGIS Pro tool was created to support permitting, planning, and environmental review preparation efforts by providing access to data layers from publicly available sources, including federal review, permitting, and resource agencies. For the full list of APPEIT layers, see Appendix Table 1. The tool is comprised of an ArcGIS Pro Project containing a custom ArcGIS Toolbox tool, linked web map shared by the NTIA's National Broadband Map (NBAM), a report template, and a Tasks item to guide users through using the tool. This ArcGIS Pro project and its contents (maps and data) are consolidated into a packaged (.ppkx) project file.

To use APPEIT, users will input a project area boundary or project route line in a shapefile or feature class format. The tool will return as a CSV and PDF report that lists any federal layers from the ArcGIS Pro Permitting and Environmental Information Web Map that intersect the project. Users may only input a single project area or line at a time; multiple projects or project segments will need to be screened separately. For project route lines, users are required to specify a buffer distance. The buffer distance that is used for broadband projects should be determined by the area of anticipated impact and should generally not exceed 500 feet. For example, the State of Maryland recommends a 100-foot buffer for broadband permitting.¹ The tool restricts buffers to two miles to ensure relevant results.

For additional information about tasks or project packages see the Esri documentation below.

- Introduction to Tasks
- Project Packages



¹ <u>Navigating-Broadband-Permitting-Process.pdf</u> NTIA | 4

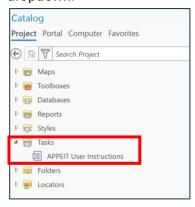
SYSTEM REQUIREMENTS

Please confirm that your system meets the <u>minimum requirements</u> to run ArcGIS Pro, and that you have ArcGIS Pro version 3.x installed. If needed, update your ArcGIS Pro software to the latest available version before opening the APPEIT project package. The tool has been designed to work with a basic-level license or above.

DOWNLOAD AND SETUP

SETUP

- Use this <u>link</u> to download the project package, which is available at: https://nbam.maps.arcgis.com/home/item.html?id=37fa42c6313e4bdb9d8a9c05d262489
- 2. Navigate to your downloads folder, open ["APPEIT_Public_20250228.ppkx"]
 - If prompted, choose a folder location to open and unpack the ArcGIS Pro project structure.
 - If you are not prompted, the project unpacks to the default location set in the Sharing and Download section of your ArcGIS Pro Options. This setting can be found under the Project Tab > Options > Sharing and Download.
- 3. Once the project package opens, navigate to the Catalog pane and select the Tasks dropdown.

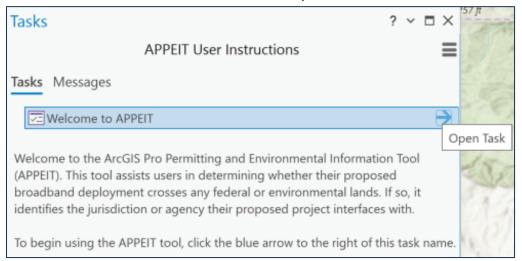


4. Double click the APPEIT User Instructions task, and a Task pane will open. You are now ready to use the tool!

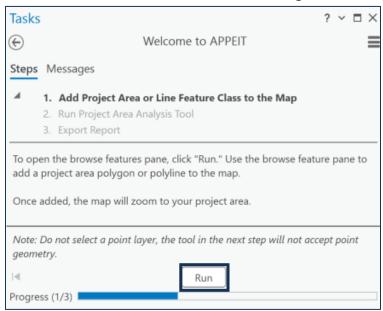


RUN APPEIT

1. Double click "Welcome to APPEIT" in the Tasks pane

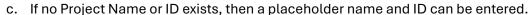


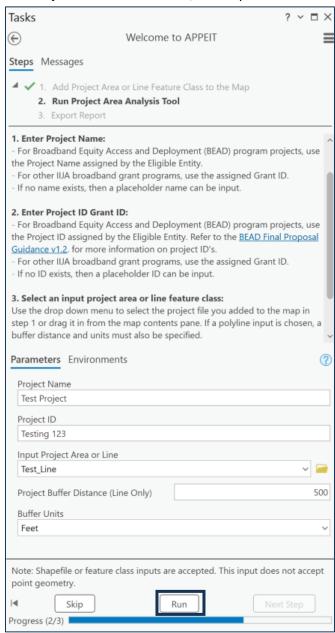
2. The first task instructs you to add your project file. This can be a polygon or a line but must represent a single project. The tool cannot incorporate multiple projects in one run, however, the tool can screen discontinuous segments/areas of a single project.



- 3. Click Run and the "Add Data" pane will open. Navigate to your file and click "Open" to add your file to the map.
- 4. The map will zoom to the area of your file and the task will proceed to the next step.
- 5. Enter the Project Name and Project ID / Grant ID.
 - a. For Broadband Equity Access and Deployment (BEAD) program projects, use the Project ID assigned by the Eligible Entity. Refer to the BEAD Final Proposal Guidance v1.2. for more information on project ID's.
 - b. For other IIJA broadband grant programs, use the assigned Grant ID.



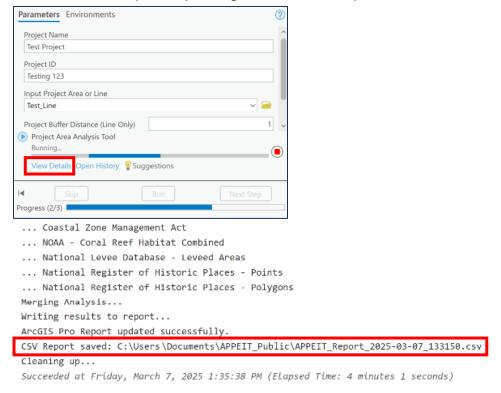




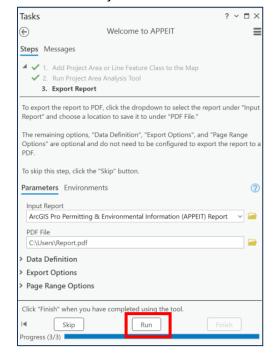
- 6. Use the drop-down menu to select the project file you added to the map in step 3 or drag it in from the map contents pane.
 - a. Optionally, use browse button to add a different project area or line feature class directly to the tool.
- 7. If your project area file is a line, you must specify a Project Buffer Distance and select one of the Buffer Unit options from the dropdown. If your project area file is a polygon, no additional settings are necessary. Please reference buffer distance recommendations in the technical description section of this document.
- 8. Click Run.
- 9. To view the tool's progress, click "View Details". Here you can see messages about the tool's progress. Depending on the size of your project, it is estimated that each run will take



approximately 10-20 minutes. When the tool completes, it will provide a message with the location of a CSV report output. To generate the PDF report, continue to the next step.



- 10. Once the tool is completed, click Next Step.
- 11. Within the 'Tasks' pane, navigate to the Input Report dropdown and select "ArcGIS Pro Permitting & Environmental Information (APPEIT) Report."
- 12. Choose where you would like the PDF File saved.





- 13. Ignore the additional options on this page. Data Definition, Export Options, and Page Range options give you additional settings to modify the output report, but it is recommended that no changes should be made.
- 14. Click Run.
- 15. Once this step is completed, you can review the PDF report output. The report output lists any layer(s) that has an overlap with the project area or line input. The report will include the layer category, layer name, subcategory area name, and the best management practice (BMP) resource area. Some layers do not have a subcategory breakdown and are simply listed as presence/absence. These layers will show 'NA' as the area name.

Category	Layer Name	Area Name	Resource Areas
Federal/Tribal Land	BIA AIAN National LAR	Standing Rock	1.7, 1.8
Floodplains/Wetands	FEMA Flood Hazard Zones	NA	1.5
Infrastructure	Electric Retail Service Territories	GRAND ELECTRIC COOP, INC	1.1

Additionally, every report will contain a supplemental BMP Resource Links page which contains hyperlinks to the different resource area BMPs and mitigation measure materials.

Best Management Practices (BMP) Resource Links

https://broadbandusa.ntia.gov/sites/default/files/2025-08/EHP_NTIA_BMPs_and_Mitigation_Measures_2025.pdf

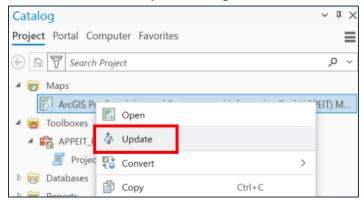
Resource Area	Resource Area Name	Url
Resource Area 1.1	Roads, Right-of-Ways, Utilities, and Emergency Services	$https://broadbandusa.ntia.gov/sites/default/files/2025-08/BMPs_and_Mitigation_Measures_Section_1.1\Roads_Right-of-Ways_Utilities_and_Emergency_Services.pdf$
Resource Area 1.4	Water Resources	$https://broadbandusa.ntia.gov/sites/default/files/2025-08/BMPs_and_Mitigation_Measures_Section_1.4_Water_Resources.pdf$
Resource Area 1.5	Wetlands and Floodplains	$https://broadbandusa.ntia.gov/sites/default/files/2025-08/BMPs_and_Mitigation_Measures_Section_1.5_Wetlands_and_Floodplains.pdf$
Resource Area 1.6	Biological Resources	$https://broadbandusa.ntia.gov/sites/default/files/2025-08/BMPs_and_Mitigation_Measures_Section_1.6_Biological_Resources.pdf$
Resource Area 1.7	Land Use, Recreation and Airspace	$https://broadbandusa.ntia.gov/sites/default/files/2025-08/BMPs_and_Mitigation_Measures_Section_1.7_Land_Use_Recreation_and_Airspace.pdf$
Resource Area 1.7	Land Use, Recreation and Airspace	$https://broadbandusa.ntia.gov/sites/default/files/2025-08/BMPs_and_Mitigation_Measures_Section_1.7_Alaska_Land_Use_Recreation_and_Airspace.pdf$
Resource Area 1.8	Cultural Resources	$https://broadbandusa.ntia.gov/sites/default/files/2025-08/BMPs_and_Mitigation_Measures_Section_1.8_Cultural_Resources.pdf$
Resource Area 1.9	Air Quality	$https://broadbandusa.ntia.gov/sites/default/files/2025-08/BMPs_and_Mitigation_Measures_Section_1.9_Air_Quality.pdf$
Resource Area 1.10	Noise and Vibrations	$https://broadbandusa.ntia.gov/sites/default/files/2025-08/BMPs_and_Mitigation_Measures_Section_1.10\Noise_and_Vibrations.pdf$
Resource Area 1.11	Human Health and Safety	https://broadbandusa.ntia.gov/sites/default/files/2025-08/BMPs_and_Mitigation_Measures_Section_1.11 _Human_Health_and_Safety.pdf

TROUBLESHOOT COMMON ISSUES

1. **APPEIT Map is out of sync, update map from source:** If you see this warning, one or more layers are missing from the APPEIT Map. This may occur if NTIA has updated the map, a layer was offline during the update, or a layer is incorrectly named. To resolve, try updating



the connection to the web map by navigating to the catalog pane, maps, right-click on the APPEIT map and select update. If the issue persists, please contact NBAM support for assistance at NTIAanalytics@ntia.gov.



- 2. {Error} Occurred on layer: {layer name} It will NOT be included in the analysis: If you see this warning, one or more of the layers in the APPEIT Map could not access the rest service. This could be due to a temporary server-side issue, a request timeout, or the service being offline. To resolve, try rerunning the tool or updating the map from the source as described above.
- 3. Failed to Open Project The Permitting_MapPackage.ppkx project file does not exist in its last saved location: To resolve this warning, change the default setting for unpacking Project Packages in the sharing and download settings of ArcGIS Pro.
 - a. Open the options menu and select the Share and Download in the left side menu.
 - b. Expand the Unpacking section.
 - c. Select "Ask where to save before unpacking" under Project Packages and Project Templates.
 - d. Click Ok and close ArcGIS Pro.
 - e. Reopen the Permitting_MapPackage.ppkx project file.
- 4. Issues with cloud storage locations such as OneDrive. Generally, ArcGIS Pro does not support the use of cloud storage services, such as OneDrive and Google Drive. Unpacking the APPEIT Project Package to a location synced by cloud storage platforms can cause errors, including "AttributeError: 'NoneType' object has no attribute 'tables'". If you are experiencing errors running the tool, verify where the APPEIT package was unpacked. Unpack it to a local folder and try again if needed.
- 5. Any errors accessing layers will be listed at the end of your report. Layers not included in the analysis will be noted; these layers could overlap with your project area. Review any errors to ensure all necessary data is included.



Category	Layer Name	Area Name	Resource Areas
Federal/Tribal Land	BIA AIAN National LAR	Standing Rock	1.7, 1.8
Floodplains/Wetands	FEMA Flood Hazard Zones	NA	1.5
Infrastructure	Electric Retail Service Territories	GRAND ELECTRIC COOP, INC	1.1
Infrastructure	Electric Retail Service Territories	MONTANA-DAKOTA UTILITIES CO	1.1
Infrastructure	Electric Retail Service Territories	MOREAU-GRAND ELECTRIC COOP INC	1.1

Count: 5

Report Totals

Errors detected, these layers are not included in the analysis: ('EPA Programs', 'Impaired Waters - Assessment Lines')

If an error occurs, you should manually verify any potential overlap with the project or rerun the tool. If you run into consistent issues, try updating the connection to the web map as described under issue 1.



APPENDIX

TABLE 1 - APPEIT LAYERS

APPEIT relies on publicly available data on the websites of other federal, state, local, and Tribal agencies and, in some instances, private organizations and research institutions. Table 1 below lists all layers, layers with a double asterisk include information relevant to determining whether an "extraordinary circumstance" may warrant a more detailed environmental review when a categorical exclusion may otherwise apply.

Group Federal/Tribal Land	Layer Name NPS Land**	Source https://services3.arcgis.com/OYP7N6mAJJCyH6h https://services3.arcgis.com/OYP7N6mAJJCyH6h https://services3.arcgis.com/OYP7N6mAJJCyH6h https://services/NPS_Land_Permitting_Layer/FeatureServer/0
Federal/Tribal Land	USBR Land**	https://services3.arcgis.com/OYP7N6mAJJCyH6hd/arcgis/rest/services/USBR_Land_for_Permitting/FeatureServer/0
Federal/Tribal	USACE Lands for	https://services3.arcgis.com/OYP7N6mAJJCyH6h
Land	Permitting**	d/arcgis/rest/services/USACE_Land_Permitting_L
		ayer/FeatureServer/0
Federal/Tribal Land	BIA AIAN National LAR**	https://services3.arcgis.com/OYP7N6mAJJCyH6hd/arcgis/rest/services/BIA_AIAN_LAR_Layers/Feat
Fadaval /Tvilaal		ureServer/0
Federal/Tribal	BIA AIAN LAR	https://services3.arcgis.com/OYP7N6mAJJCyH6hd/arcgis/rest/services/BIA_AIAN_LAR_Layers/Feat
Land	Supplemental**	ureServer/1
Federal/Tribal	BIA AIAN Tribal Statistical	https://services3.arcgis.com/OYP7N6mAJJCyH6h
Land	Areas**	d/arcgis/rest/services/BIA_AIAN_LAR_Layers/Feat
Lana	711000	ureServer/2
Federal/Tribal	Alaska Native, and Native	https://tigerweb.geo.census.gov/arcgis/rest/servic
Land	Hawaiian Areas**	es/TIGERweb/AIANNHA/MapServer/47
Federal/Tribal	DoD Lands for	https://services3.arcgis.com/OYP7N6mAJJCyH6h
Land	Permitting**	d/arcgis/rest/services/DoD_Lands_for_Permitting/
	_	FeatureServer/0
Federal/Tribal	USFS Surface Ownership	https://apps.fs.usda.gov/arcx/rest/services/EDW/
Land	Parcels**	EDW_BasicOwnership_01/MapServer/0
Federal/Tribal	USFWS National Realty	https://services3.arcgis.com/OYP7N6mAJJCyH6h
Land	Boundaries	d/arcgis/rest/services/USFWS_National_Realty_B
		oundaries/FeatureServer/0
Federal/Tribal	BLM Lands**	https://services.arcgis.com/P3ePLMYs2RVChkJx/
Land		arcgis/rest/services/USA_Bureau_of_Land_Manag
		ement_Lands/FeatureServer/0
Federal/Tribal	USACE Project (Points)**	https://geospatial.sec.usace.army.mil/server/rest/
Land		services/CPN/Corps_Project_Notebook/FeatureS
NITIA 12		erver/0

Federal/Tribal Land Federal/Tribal Land Federal/Tribal Land	USACE Navigable Waterway Network USACE Land Parcel Area** GSA Federal Real Property**	https://services3.arcgis.com/OYP7N6mAJJCyH6h d/arcgis/rest/services/Commercially_Navigable_Waterways/FeatureServer/0 https://geospatial.sec.usace.army.mil/server/rest/services/REMIS/cwldm/FeatureServer/4 https://services3.arcgis.com/OYP7N6mAJJCyH6h d/arcgis/rest/services/GSA_Federal_Real_Propert y/FeatureServer/0
Federal/Tribal Land	Historical Trails - Lines	https://services3.arcgis.com/OYP7N6mAJJCyH6hd/arcgis/rest/services/National_Historic_Trails/FeatureServer/0
Federal/Tribal Land Critical	Historical Trails - Polygons Critical Habitat - Polygon	https://services3.arcgis.com/OYP7N6mAJJCyH6hd/arcgis/rest/services/National Historic Trails/FeatureServer/1https://services.arcgis.com/QVENGdaPbd4LUkLV
Habitats	Features – Final**	/arcgis/rest/services/USFWS_Critical_Habitat/Fea tureServer/0
Critical	Critical Habitat - Polygon	https://services.arcgis.com/QVENGdaPbd4LUkLV
Habitats	Features – Proposed**	/arcgis/rest/services/USFWS_Critical_Habitat/Fea tureServer/2
EPA Programs	Resource Conservation and Recovery Act (RCRA)**	https://services3.arcgis.com/OYP7N6mAJJCyH6hd/arcgis/rest/services/Resource_Conservation_and_Recovery_ActRCRA/FeatureServer/0
EPA Programs	National Pollutant Discharge Elimination System Sites (NPDES)**	https://services.arcgis.com/cJ9YHowT8TU7DUyn/arcgis/rest/services/FRS_INTERESTS_NPDES/FeatureServer/0
EPA Programs	Major National Pollutant Discharge Elimination System Facilities (NPDES_MAJOR)**	https://services.arcgis.com/cJ9YHowT8TU7DUyn/arcgis/rest/services/FRS_INTERESTS_NPDES_MAJOR/FeatureServer/0
EPA Programs	Toxic Release Inventory (TRI)**	https://services.arcgis.com/cJ9YHowT8TU7DUyn/arcgis/rest/services/FRS_INTERESTS_TRI/FeatureServer/0
EPA Programs	Superfund Nation Priorities List (SEMS_NPL)**	https://services.arcgis.com/cJ9YHowT8TU7DUyn/arcgis/rest/services/FRS_INTERESTS_SEMS_NPL/FeatureServer/0
EPA Programs	Assessment Cleanup and Redevelopment Exchange System (ACRES)	https://services.arcgis.com/cJ9YHowT8TU7DUyn/arcgis/rest/services/FRS_INTERESTS_ACRES/FeatureServer/0



EPA Programs	Integrated Compliance Information System for	https://services.arcgis.com/cJ9YHowT8TU7DUyn/arcgis/rest/services/FRS_INTERESTS_AIR/Feature
	Air (AIR)	Server/0
EPA Programs	Impaired Waters -	https://gispub.epa.gov/arcgis/rest/services/OW/A
LIATIOGIAIIIS	Assessment Points**	TTAINS_Assessment/MapServer/0
EPA Programs	Impaired Waters -	https://gispub.epa.gov/arcgis/rest/services/OW/A
Livilogianio	Assessment Lines**	TTAINS_Assessment/MapServer/1
EPA Programs	Impaired Waters -	https://gispub.epa.gov/arcgis/rest/services/OW/A
21711108101110	Assessment Areas**	TTAINS_Assessment/MapServer/2
EPA Programs	Sole Source Aquifers**	https://geopub.epa.gov/arcgis/rest/services/NEPA
		ssist/Water/MapServer/6
EPA Programs	Ozone 8-hr (2015	https://gispub.epa.gov/arcgis/rest/services/OAR_
J	Standard)	OAQPS/NonattainmentAreas/MapServer/2
EPA Programs	Ozone 8-hr (2008	https://gispub.epa.gov/arcgis/rest/services/OAR_
	standard)	OAQPS/NonattainmentAreas/MapServer/1
EPA Programs	Ozone 8-hr (1997	https://gispub.epa.gov/arcgis/rest/services/OAR_
	standard)	OAQPS/NonattainmentAreas/MapServer/0
EPA Programs	PM2.5 Annual (2012	https://gispub.epa.gov/arcgis/rest/services/OAR_
	standard)	OAQPS/NonattainmentAreas/MapServer/7
EPA Programs	PM2.5 24hr (2006	https://gispub.epa.gov/arcgis/rest/services/OAR_
	standard)	OAQPS/NonattainmentAreas/MapServer/5
EPA Programs	PM2.5 Annual (1997	https://gispub.epa.gov/arcgis/rest/services/OAR_
	standard)	OAQPS/NonattainmentAreas/MapServer/6
EPA Programs	PM10 (1987 standard)	https://gispub.epa.gov/arcgis/rest/services/OAR_
		OAQPS/NonattainmentAreas/MapServer/8
EPA Programs	Lead (2008 standard)	https://gispub.epa.gov/arcgis/rest/services/OAR_
		OAQPS/NonattainmentAreas/MapServer/3
EPA Programs	SO2 1-hr (2010 standard)	https://gispub.epa.gov/arcgis/rest/services/OAR_
		OAQPS/NonattainmentAreas/MapServer/4
Infrastructure	EIA - Natural Gas Wells	https://services3.arcgis.com/OYP7N6mAJJCyH6h
		d/arcgis/rest/services/Natural_Gas_Wells_Permitt
		ing/FeatureServer/0
Infrastructure	EIA - Underground	https://services2.arcgis.com/FiaPA4ga0iQKduv3/a
	Natural Gas Storage	rcgis/rest/services/Underground_Natural_Gas_St
	EIA D. D	orage/FeatureServer/0
Infrastructure	EIA - Power Plants	https://services2.arcgis.com/FiaPA4ga0iQKduv3/a
		rcgis/rest/services/Power_Plants_in_the_US/Feat
Infrastructure	EIA - Natural Gas	ureServer/0
mnastructure	Interstate and Intrastate	https://services2.arcgis.com/FiaPA4ga0iQKduv3/a
	Pipelines	rcgis/rest/services/Natural_Gas_Interstate_and_I ntrastate_Pipelines_1/FeatureServer/0
Infrastructure	EIA - Crude Oil Trunk	https://services2.arcgis.com/FiaPA4ga0iQKduv3/a
iiiiasiiuciuie	Pipelines	rcgis/rest/services/Crude_Oil_Trunk_Pipelines_1/
	i ipetities	FeatureServer/0



Infrastructure	EIA - Hydrocarbon Gas Liquids Pipelines	https://services2.arcgis.com/FiaPA4ga0iQKduv3/arcgis/rest/services/Hydrocarbon_Gas_Liquids_Pipelines 1/FeatureServer/0
Infrastructure	EIA - Petroleum Products Pipelines	https://services2.arcgis.com/FiaPA4ga0iQKduv3/arcgis/rest/services/Petroleum_Products_Pipelines_ 1/FeatureServer/0
Infrastructure	Electric Power Transmission Lines	https://services2.arcgis.com/FiaPA4ga0iQKduv3/arcgis/rest/services/US_Electric_Power_Transmission_Lines/FeatureServer/0
Infrastructure	Electric Retail Service Territories	https://services3.arcgis.com/OYP7N6mAJJCyH6hd/arcgis/rest/services/Electric_Retail_Service_Territories_HIFLD/FeatureServer/0
Infrastructure	National Scenic Byways	https://services1.arcgis.com/fBc8EJBxQRMcHlei/arcgis/rest/services/NTIR_TRANS_NationalScenic Byways_NSBP_In/FeatureServer/0
Infrastructure	USFS Special Uses Communications Sites	https://services3.arcgis.com/OYP7N6mAJJCyH6h d/arcgis/rest/services/US_Forest_Service_Comm unication_Sites/FeatureServer/0
Infrastructure	USFS - Right of Way	https://apps.fs.usda.gov/arcx/rest/services/EDW/ EDW_ALPStatusAndEncumbrance_01/MapServer /71
Infrastructure	USGS - Coal Fields	https://services.arcgis.com/P3ePLMYs2RVChkJx/arcgis/rest/services/USA_Coal_Fields_view/FeatureServer/0
Infrastructure	Surface and Underground Coal Mines	https://services2.arcgis.com/FiaPA4ga0iQKduv3/arcgis/rest/services/Surface_and_Underground_Coal_Mines_in_the_US/FeatureServer/0
Infrastructure	Rail Lines	https://services2.arcgis.com/FiaPA4ga0iQKduv3/arcgis/rest/services/Transportation_v1/FeatureServer/9
Infrastructure	Railroad Crossings	https://services1.arcgis.com/4yjifSilG17X0gW4/arcgis/rest/services/FRA_Crossing_Inventory_Form_71_Current/FeatureServer/0
Floodplains/We tands	FEMA Flood Hazard Zones**	https://hazards.fema.gov/arcgis/rest/services/pub lic/NFHL/MapServer/28
Floodplains/We tands	USFWS Wetlands**	https://services.arcgis.com/P3ePLMYs2RVChkJx/arcgis/rest/services/USA_Wetlands/FeatureServer/0
Floodplains/We tands	Wild and Scenic Rivers**	https://geopub.epa.gov/arcgis/rest/services/NEPA ssist/Water/MapServer/9



Floodplains/We	CBRS Units**	https://cbrsgis.wim.usgs.gov/arcgis/rest/services/
tands		CoastalBarrierResourcesSystem/MapServer/3
Floodplains/We	Coastal Zone	https://coast.noaa.gov/arcgis/rest/services/Hoste
tands	Management Act**	d/CoastalZoneManagementAct/FeatureServer/0
Floodplains/We	NOAA - Coral Reef	https://services3.arcgis.com/OYP7N6mAJJCyH6h
tands	Habitat Combined	d/arcgis/rest/services/Coral_Reef_Habitat_Combi
		ned/FeatureServer/0
Floodplains/We	National Levee Database	https://services3.arcgis.com/OYP7N6mAJJCyH6h
tands	- Leveed Areas**	d/arcgis/rest/services/National_Levee_Database_
		Leveed_Areas/FeatureServer/0
Historic Places	National Register of	https://services2.arcgis.com/FiaPA4ga0iQKduv3/a
	Historic Places – Points**	rcgis/rest/services/nrhp_points_v1/FeatureServer/
		<u>0</u>
Historic Places	National Register of	https://services3.arcgis.com/OYP7N6mAJJCyH6h
	Historic Places –	d/arcgis/rest/services/NationalRegisterofHistoric
	Polygons**	Places_Polygon/FeatureServer/0



APPEIT LAYERS CUSTOMIZATION GUIDE

DESCRIPTION

The National Telecommunications and Information Administration released the ArcGIS Pro Permitting and Environmental Information Tool (APPEIT) to assist federal broadband grant recipients and subgrantees in identifying required permits and environmental considerations when planning broadband deployment routes. APPEIT offers flexibility, allowing users to customize the tool by adding or removing map layers to meet their specific needs. This document provides step-by-step instructions to reconfigure the tool to work with a custom set of layers.

STEPS TO UPDATE LAYER LIST

- 1. Open the <u>APPEIT Project Package</u> and save it.
- 2. Open the ArcGIS Pro Permitting and Environmental Information Tool (APPEIT) Map and navigate to the contents pane to view the standard list of layers included in APPEIT.
 - a. To add a layer as a new category for the report, right click in the maps contents pane a select "New Group Layer".



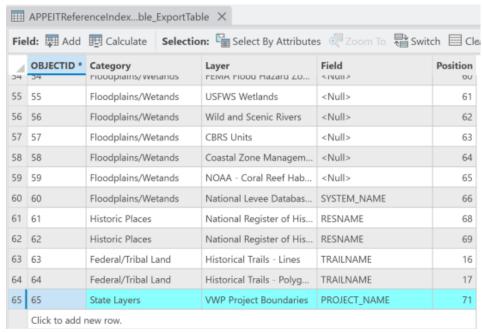
- Name the group layer. For this example, we will create a new group called "State Layers".
- ii. Add a new layer into the group. For this example, we are adding the Virginia Water Protection (VWP) Project Boundaries layer.



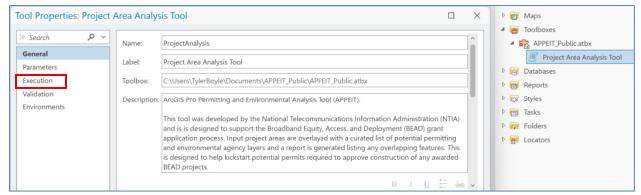
Link to layer: Virginia Water Protection (VWP) Project Boundaries

- iii. Note: If only adding new layers to the map, it is best practice to add them to the bottom of the list; it will make the next steps easier.
- b. If adding or removing from an existing_group layer, simply remove the layer from the map or add the layer to the group layer.
- c. Save your project.
- Export a copy of the APPEIT Reference Index Table to File Geodatabase Table format.
- 4. Open the new index table in ArcGIS Pro and modify the records to match the new list of layers in your updated map.

a. If you added a new category and layer, add a new row to the table with the relevant information. Adding the VA example with the new State category should be added as shown below.

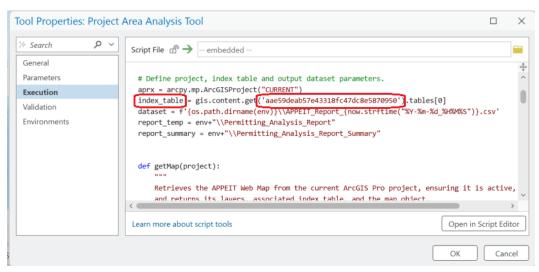


- i. Make sure the Category and Layer name exactly match the contents pane in the map.
- ii. If desired, add a field name that will be used to summarize the results, in this case we will summarize results by "PROJECT_NAME". Leave as null if you do not need to summarize a field.
- iii. Add the new layer position. Note that we skipped position 70, which is reserved for the group layer "State Layers".
- b. If making additions or subtractions to existing categories, follow the same steps, making sure to update the positions for all layers in the map.
- c. Save edits on the index table.
- 5. Publish the index table to ArcGIS Online.
- Open the tool properties of the Project Area Analysis Tool and select the execution tab.



7. Find the "index_table" parameter and replace the item ID value with the new item ID for the updated index table that you have published. Ensure that you have shared the new table in a way you can access it from ArcGIS Pro.





- 8. Save and close the script.
- 9. You should now be ready to run the APPEIT with your customized layer list.

