

Electronic Submission Format Guide Anthracite Underground Mine Permit Application (5600-PM-BMP0321)

Module 1: Application

Include the following as PDF files with appropriate titles:

- Section A through Section I, the Application Checklist, and all narrative responses
- Act 67 / 68 Notifications
- Notice-of-Intent to Publish

Module 2: NPDES Information

Include the following as PDF files with appropriate titles:

- The module and the narrative responses

Note: this is only the information module, not the NPDES application.

Module 3: Areas Where Mining Is Prohibited or Limited

Include the following as PDF files with appropriate titles:

- Section 3.1 and Section 3.5, and all narrative responses
- If required, "Special Protection Waters" (Module 24, 5600-PM-BMP0343) if there will be a discharge to a High Quality Water
- If required, "Streams / Wetlands" (5600-PM-BMP0343) if activities will be conducted within 100 feet of any intermittent or perennial streams
- The Cultural Resource Notice Form (0120-PM-PY0003)
- All correspondence with the Pennsylvania Historical and Museum

Module 4: Property Interests / Right-of-Entry

Include the following as PDF files with appropriate titles:

- Sections 4.1 through 4.6, and all narrative responses
- Consent of Landowners Form "Supplemental C" Form (5600-FM-BMP0010)
- Module 4.6: Dwelling barrier waivers
- Required copies of lease agreements or other right-of-access documents

Module 5: Ownership & Compliance Information

Include the following as PDF files with appropriate titles:

Sections 5.1 through Section 5.5, and all narrative responses

Module 6: Operational Information

Include the following as PDF files with appropriate titles:

- Sections 6.1 through 6.15 and all narrative responses
- If required, Form 5600-PM-MR0026 (MSHA Coordination)
- If required, Form 5600-PM-MR0449 (Mining Tank Inventory)

Module 7: Erosion and Sedimentation Controls

Include the following as PDF files with appropriate titles:

- Sections 7.1 through 7.3 and all narrative responses
- The Module 7.1 Diversion / Collection Ditch Data Sheet
- Cross-sections required by Module 7

Include the following as an Excel (or equivalent) Spreadsheet

Module 7.1 Diversion / Collection Ditch Data Sheet

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 8: Streams / Wetlands

Include the following as PDF files with appropriate titles:

- Sections 8.1 through 8.6 and all narrative responses
- Supplemental drawings, plans, and cross sections
- If required, Form 8A (Request for Federal Clean Water Act (CWA) Section 401 Certification for Mining / Coal Refuse Disposal Activities)
- All additional supporting correspondence (e.g. obtained from the Army Corps or PA Fish and Boat Commission)

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 9: Treatment Facilities / Sedimentation Ponds / Dams / Impoundments

Include the following as PDF files with appropriate titles:

- Section 9.1 through Section 9.6 and all narrative responses
- All Pond Certification Sheets, pond drawings, and cross sections

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 10: Geology Information

Include the following as PDF files with appropriate titles:

- Sections 10.1 through 10.8 and all narrative responses
- Module 10.1B Geologic Log Drill Holes / Overburden Analysis Data
Note: If the geologic logs were prepared using an electronic format, then also submit the electronic version of the logs.
- All geologic cross sections or fence diagram as required by Module 10
- The overburden analysis narrative report as required by Module 10.5
- The overburden analysis data illustrating the applicant's calculations
- Any additional drawings and / or cross-sections (e.g. zone-of-influence maps)

Include the following as an Excel (or equivalent) Spreadsheet
Overburden analysis data.

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 11: Hydrology

Include the following as PDF files with appropriate titles:

- Sections 11.1 through 11.6, and all narrative responses
- The Hydrologic Data Map (Module 11.2)
- The Well & Spring Inventory Information (Module 11.3a) must be included on the Ground Water Inventory (Form 11.3A)
- The Stream Inventory Information (Module 11.3b) & General Stream Inventory (Form 11.3.B)
- The Mine Discharge Inventory (Form 11.3C)
- The Dam & Pond Inventory (Form 11.3D)
- The Background Sampling Requirements (Module 11.4)
- The Specific Capacity Data (Form 11.4B)
Note: Sample points may be represented by separate sheets within one PDF file or by separate PDF files. However, whatever approach is chosen must be followed in subsequent revisions.
- The Hydrologic Monitoring Plan (Module 11.15A)
- The Background or Monitoring Report (Form 11.4A)
- All supplemental data and information provided on private water supplies (e.g. if the application includes pump test data, replacement cost calculations and an expanded narrative regarding the replacement of the supply)
- Each water supply replacement agreement or abandonment waiver

Include the following as an Excel (or equivalent) Spreadsheet
Background Sampling Requirements (Module 11.4)
Specific Capacity Data (Form 11.4B)

Module 12: Land Use / Vegetation / Fish and Wildlife / Prime Farmland

Include the following as PDF files with appropriate titles:

- Section 12.1 through Section 12.4 and all narrative responses
- Module 12.3 / Fish and Wildlife (Protection / Enhancement Plan)
- The Pennsylvania Natural Diversity Inventory (PNDI) search results
- All correspondence between the applicant and resource agencies
- If required, the Indiana Bat Protection and Enhancement Plan
- Section 12.4 narrative answers should be submitted as an individual PDF file
- The USDA Soil Survey Map required by Section 12.4 / Prime Farmland

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 13: Reclamation Plan

Include the following as PDF files with appropriate titles:

- Sections 13.1 through 13.12 and all narrative responses
- All mine seal drawings and specifications
- The approved Mine Seal Plan (approved by the Department)
- Each cross-section required by Module 13

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 14: Environmental Resource, Operations, Land Use Maps

Include the following as PDF files with appropriate titles:

- Sections 14.1 through 14.7 and all narrative responses
- The application module checklist
- The 7½-minute U.S.G.S topographic map (latest edition) delineating the proposed permit area identified as Exhibit 14.1 Map
- Module 14.2 Environmental Resources Map / Surface Mining Activity Sites
- Module 14.3 Environmental Resources Map Underground Permit Area
- Module 14.4 Operations Map

- Module 14.5 / Land Use and Reclamation Map

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 15: Anthracite Surface Blast Plan

Include the following as PDF files with appropriate titles:

- Section 15.1 through Section 15.13 and all narrative responses
- Maps required by Module 15.13 / Map

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Additional Notes:

Bonding - Application for Authorization to Conduct Anthracite Underground Coal Mining Activities

- The completed application form
- Bond calculations
- If the application is a modification to an existing permit, each Supplemental C's, dwelling barrier waivers, and / or variance / distance limitation documents, which were not approved as part of the original permit application
- If the application is a modification to an existing permit, a revised Module 9 / Operations Map, showing the updated bonding information

NPDES: Application for Individual NPDES Permit Associated With Mining Activities

- The entire NPDES application should be submitted as an individual PDF file.
- Any water quality data submitted to support the effluent characterization requirements should be submitted in two formats:
 - A PDF file, and
 - An Excel spreadsheet that allows the Department work with the raw data

AutoCAD Option:

Submitting the required material as AutoCAD files may expedite the Department's review and analyzing the applicant's application.

Georeferencing Map Standards

- A digital image copy of the certified map should be submitted in an uncompressed Tagged Image File Format (TIFF) (.tif).
 - The resolution of the image should be a minimum of 400 dots per inch (dpi). A higher dpi should be used if 400 dpi does not clearly reproduce a legible image.
 - The color depth of the image should be 24-bit 3-band RGB color.
- The map should be drawn in a well-known acceptable coordinate system that is indicated in the map legend.
 - The geographic horizontal datum should be the North American Datum of 1983 (NAD83).
 - The projected coordinate system can be one of the following:
 - State Plane Pennsylvania North (U.S. Feet), NAD83 (EPSG WKID: 2271)
 - State Plane Pennsylvania South (U.S. Feet), NAD83 (EPSG WKID: 2272)
 - UTM Zone 17 North, NAD83 (EPSG WKID:26917)
 - UTM Zone 18 North, NAD83 (EPSG WKID:26918)
 - The map should have at least four coordinate pair points drawn and identified in the indicated coordinate system.

- The coordinate points drawn on the map should be within an accuracy tolerance of 3 feet to the mine workings drawn on the map.
- The digital mine map image file should be georeferenced in a Geographic Information System (GIS) software in the indicated coordinate system.
 - The digital mine map image file should be accompanied by an ESRI TIFF auxiliary xml file (.tif.aux.xml) *and / or* a TIFF world file (.tfw).
 - The xml file should contain the four projected coordinate points matched to their respective digital image file's x / y points, with a georeferencing Transformation setting of "1st Order Polynomial (Affine)" (accomplished through ESRI's ArcMap software).
 - The world file should position the map in a GIS software where the drawn coordinate points on the digital map image are within 3 feet of their respective projected coordinate points.

Miscellaneous

- Depending upon the type of data or supplemental documents being submitted, the information should be submitted in a PDF or Excel spreadsheet format. (e.g. the cover letter sent with the application; the proof-of-publication, when it is received; other notifications and correspondence that would normally be part of the file record).
- When submitting revisions, resubmit the entire Module with revisions and the supporting data, if the Module was not revised, do not resubmit the Module.