



E-TEMPLATE
BENEFICIAL USE OF IMPORTED MATERIAL
 (COAL ASH, GENERAL PERMITS, OTHER)
Not Applicable.

Select the material(s) proposed for beneficial use:

- Certified Coal Ash (Complete Certified Coal Ash BU section)
- General Permit approved material (ash-like material, sewage sludge, slag, etc.) (Complete GP and other section)
- Other, non-GP material (coproduct) (Complete GP and other section)

Indicate the total acres that will be receiving land application of each material.

Material	Acres	Type of material (if not CA)

Submit a justification that the proposed use of the proposed material at this site will be a beneficial use and enhance reclamation. Demonstrate that the use will achieve overall groundwater or surface water improvement and will not degrade the existing conditions.

Landowner consent

For sites receiving the following types of imported material, submit the completed and signed copy of the appropriate Consent Form. Landowner consent may be required for other materials.

- Sewage sludge and materials containing sewage sludge - Contractual Consent of Landowner (Form 3800-FM-WSFR0342)
- Certified coal ash - Beneficial Use of Coal Ash (5600-FM-BMP0149)

Groundwater Information and Monitoring

A water monitoring plan is typically necessary when either more than 10,000 tons of GP material is used per acre or more than 100,000 tons is used on a site. Depending on the material to be used, a monitoring plan may be required for lesser amounts. [§ 290.101]

This proposal is for:

Greater than 10,000 tons of material used per acre Yes No
 Greater than 100,000 tons is used on the entire site Yes No

If yes to either or both, submit a water monitoring plan (see next section)

Water Monitoring Plan

List all the monitoring points proposed to evaluate the beneficial use area. Complete multiple tables if there is more than one distinct area on the permit. All points must be included in the overall site monitoring plan in the Hydrology section.

Area Name (i.e., "Area #1"): _____			
Monitoring Point Designation #	Name/Description	Type (surface or groundwater)	Location relative to area (upgradient, downgradient or intermediate)

Describe the location of ash/other material use relative to the groundwater and the groundwater system. Include information regarding water table elevations, directions of flow, infiltration rates, seasonal variation of the water table and stormwater runoff. Demonstrate that the placement will remain at least 8 ft above the water table.

Complete form "Beneficial Use/Coal Ash Water Quality Monitoring Report" (5600-PM-BMP0014) for each point.

Describe how the data will be assessed after beneficial use begins to determine if groundwater degradation due to the beneficial use has occurred.

Certified Coal Ash BU

Proposed beneficial use at this site is:

- Placement Soil substitute/additive (if soil, complete Loading rates template)

For placement, select all that apply:

- Reclamation/Fill Alkaline Addition Low-permeability Material

Does this project involve multiple refuse reprocessing sites under § 290.104(f)(5)? Yes No.

If yes, provide details within the Coal Ash Description.

Coal Ash Sources

Each source of ash to be utilized at this site must be certified for beneficial use at mine sites by the Bureau of Mining Programs. Provide the Ash Certification number and the associated name of generation facility that is proposed to be used at this site. Provide associated volume and tonnage expected per year. If other sources are anticipated for the life of this permit, please check "Potential other sources may be used".

CA #	Source Name	Expected Volume in cu. yds.	Expected Tons
<input type="checkbox"/>	Potential other sources may be used.		

Description

Provide a general narrative about the project describing locations of coal ash areas (i.e. one or more distinct placement areas), uses at this permit site, calculations of how much coal ash, in cubic yards, is proposed to be used each year at this site and how much coal ash is necessary for ultimate completion of the reclamation plan. Include a timetable/schedule for ash utilization at this site from preparation to final reclamation.

Provide a detailed description of the following for the coal ash beneficial use areas:

- Site preparation
- Handling of coal ash (transportation, unloading, and storage prior to use)
- Placement, spreading, and compaction techniques to be used.
- Dust control measures specific to the ash areas
- Final site grading specific to the ash areas
- Type, location, and thickness of final cover material to be used.

Maps and plans

Upload map/plan that includes the following

- Areal extent of beneficial use of coal ash.
- Identification labels for all ash areas including proposed and future
- All monitoring points for the site
- Coal ash unloading and stockpile areas
- Cross sections (based on section submitted in Geology section) that show the current contours, ash areas, groundwater elevations and proposed final contours. Include multiple cross sections if necessary to describe sequential placement in large pits.

General Permit Material and Other

DEP General Permit number(s) and expiration date(s) _____

If no GP, provide explanation:

Attach a copy of the approved general permit(s).

Description

Provide a general narrative explanation of the project and locations of beneficial use. Include the following:

- Site preparations
- Maximum slope of the land
- Transport, storage and handling of material
- Nuisance control plan (odor, vectors)
- Application, spreading and mixing techniques and equipment to be used
- Calculations of how much material, in cubic yards, is proposed to be used each year at this site and how much will be necessary for ultimate completion of the reclamation plan.
- Timetable/schedule for utilization at this site from preparation to final reclamation.

Characterization

For materials other than sewage sludge/biosolids, submit at least four (4) representative samples that fully characterizes the composition of the material proposed for beneficial use. The samples can be the same as those submitted for the waste General Permit but must be submitted on the Department Form 5600-PM-BMP0012.

Provide a sampling plan for the beneficial use material.

Complete the Loading rates section.

Loading Rates

For soil substitution/amendment, the following must be submitted by an expert in soil sciences: [290.103]

- Provide a representative background chemical analyses for the existing soil (or composite analyses for stockpiled soil) within the proposed application area. The following parameters are to be analyzed on a dry weight basis: arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, PCBs, selenium, zinc
- Provide pH measurements by measuring composite samples for 10-acre areas. Attach a copy of the laboratory and field analysis report(s) and indicate the soil sampling procedures and test methods used for soil analysis. Identify the sampling areas on the map.
- Justify the loading rates and how they were calculated. Indicate the application rates to be used. Loading rate parameters to be described must include: arsenic, boron, cadmium, chromium, copper, mercury, molybdenum, nickel, lead, selenium and zinc. If organic material (under a general permit) will be imported to the site, loading rates must also incorporate total and organic nitrogen and ammonium,

Has the site been used previously for soil substitute or soil additive application or for beneficial use of another material? Yes No

If yes, describe the type of additive and the amount of material applied: _____

Identify any other known chemical parameter not listed in Chapter 290 Subchapter C that may be present in the material and could pose an environmental risk to vegetation, surface waters or groundwater. Include these parameters in the testing and evaluation of loading rates.

Demonstrate and provide accompanying analyses and calculations that the cumulative pollutant loading rates will not be exceeded and pH will be within an acceptable range.