

Name of Facility _____

PTI Application # _____

PTI REVIEW CHECKLIST

RESIDUAL WASTE LANDFILL FACILITY

PLAN/NARRATIVE INFORMATION AND APPROVAL CRITERIA(*)

OAC 3745-30-05 Paragraph	Information/Criteria	Meets	Doesn't Meet	See Attached
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BACKGROUND CHECK

(A)(2)(a)	Submit disclosure statement	_____	_____	_____
APPROVAL CRITERIA 30-06(A)(5):	Meets disclosure statement requirements	_____	_____	_____*

DETAIL ENGINEERING PLAN COVER SHEET

(B)(1)(a)	Name of the residual waste landfill facility	_____	_____	_____
(B)(1)(b)	Precise geographic location, boundaries, etc.	_____	_____	_____
(B)(1)(c)	Name and address of the applicant and the operator	_____	_____	_____
APPROVAL CRITERIA 30-06(A)(3):	Compliance history of applicant/ operator.	_____	_____	_____*
(B)(1)(d)	Name and address of the land owner(s)	_____	_____	_____
(B)(1)(e)	Name and address of the person who prepared the plans	_____	_____	_____

PLAN DRAWINGS

Show items within 1000 feet

(B)(2)(b)	All existing land uses, zoning classification etc.	_____	_____	_____
APPROVAL CRITERIA 30-06(B)(12):	The limits of residual waste placement are not located within 300 feet of the facility's property line.	_____	_____	_____*
APPROVAL CRITERIA 30-06(B)(13):	The limits of residual waste placement are not located within 1000 feet of a domicile.	_____	_____	_____*
APPROVAL CRITERIA 30-06(B)(14):	The limits of residual waste placement are not located within 200 feet of a stream, lake, or wetland.	_____	_____	_____*

OAC 3745-30-05 Paragraph	Information/Criteria	Meets	Doesn't Meet	See Attached
(B)(2)(c)	Potential explosive gas migration pathways and sources (only if required by paragraph (E) of OAC Rule 3745-30-06)	_____	_____	_____
(B)(2)(d)	Limits of the regulatory floodplain	_____	_____	_____
APPROVAL CRITERIA	30-06(B)(10): The limits of residual waste placement and leachate management system are not located in a regulatory floodplain.	_____	_____	_____*
(B)(2)(e)	National park or recreation areas, candidate areas for potential inclusion into the national park system, and any state park or established state park purchase areas	_____	_____	_____
APPROVAL CRITERIA	30-06(B)(3): The limits of residual waste placement are not located in any of the above areas, or on any property that lies within the boundaries of a national park or recreation area that has not been acquired or is not administered by USDI.	_____	_____	_____*
(B)(2)(f)	State nature preserves, state wildlife areas, national and state scenic rivers, any national wildlife refuge, special interest areas, research natural areas in the Wayne National Forest, outstanding resource waters, coldwater habitats and exceptional warmwater habitats	_____	_____	_____
APPROVAL CRITERIA	30-06(B)(6): The limits of residual waste placement are not located within 1000 feet of any of the above areas.	_____	_____	_____*
(B)(2)(g)	Public and private water supply wells and their status including depth, use, and, where applicable, abandonment date, based on publicly available data (To be shown within 2000 feet of the limits of residual waste placement)	_____	_____	_____
APPROVAL CRITERIA	30-06(B)(4): The facility is not located within the surface and subsurface areas surrounding a public water supply well through which contaminants may move toward and may reach the public water supply well within a period of five years.	_____	_____	_____*
APPROVAL CRITERIA	30-06(B)(11): The limits of residual waste placement are not located within 1000 feet of a water supply well or a developed spring (see rule for exceptions).	_____	_____	_____*
(B)(2)(h)	Faults that have had displacement in Holocene time	_____	_____	_____
APPROVAL CRITERIA	30-06(B)(7): The limits of residual waste placement and the leachate management system are not located within 200 feet of such a fault.	_____	_____	_____*
(B)(2)(i)	Surface and underground mining (to be shown within 2000 feet of the limits of residual waste placement)	_____	_____	_____

OAC 3745-30-05 Paragraph	Information/Criteria	Meets	Doesn't Meet	See Attached
APPROVAL CRITERIA 30-06(B)(8): The facility is not located within an area of potential subsidence due to an underground mine.				
(B)(2)(j)	Airport runways (to be shown within 10000 feet of the limits of residual waste placement, or within 5000 feet if used only by propeller driven aircraft)	_____	_____	_____*
	Show items within 300 feet:			
(B)(3)(a)	Location of buildings, facilities, etc.	_____	_____	_____
(B)(3)(b)	Location of utilities etc.	_____	_____	_____
(B)(3)(c)	Location of fencing, gates etc.	_____	_____	_____
(B)(3)(d)	Location of borings, test pits, etc.	_____	_____	_____
(B)(3)(e)	Potentiometric maps of the uppermost aquifer, etc.	_____	_____	_____
(B)(3)(f)	Location of ground water control structures	_____	_____	_____
(B)(3)(g)	Location of explosive gas probes, etc. (only if required by paragraph (E) of OAC Rule 3745-30-06)	_____	_____	_____
(B)(3)(h)	General construction and development phasing diagram	_____	_____	_____
(B)(3)(i)	Land set aside for leachate treatment (if required by paragraph (C)(3)(g) of OAC Rule 3745-30-07)	_____	_____	_____
(B)(4)(a)	Limits of excavation	_____	_____	_____
(B)(4)(b)	Leachate management system(s)	_____	_____	_____
(B)(4)(c)	Final grade of the limits of residual waste placement	_____	_____	_____
(B)(4)(d)	Final grade including cap system and surface drainage	_____	_____	_____
CROSS SECTIONS				
(B)(5)(a)(i)	Existing topography	_____	_____	_____
(B)(5)(a)(ii)	Limits of excavation	_____	_____	_____
(B)(5)(a)(iii)	Limits of residual waste placement	_____	_____	_____
(B)(5)(a)(iv)	Final grade including cap system	_____	_____	_____
(B)(5)(b)(i)	Geologic stratigraphy and zones of saturation	_____	_____	_____
(B)(5)(b)(ii)	Uppermost aquifer and saturated strata above aquifer	_____	_____	_____
(B)(5)(b)(iii)	Well logs of intercepted borings	_____	_____	_____
(B)(5)(b)(iv)	Ground water flow patterns for uppermost aquifer and significant zones of saturation	_____	_____	_____
(B)(5)(b)(v)	Limits of excavation	_____	_____	_____
APPROVAL CRITERIA 30-06(B)(15): The isolation distance between the uppermost aquifer system and the bottom of the recompacted soil liner is not less than 15 feet of in-situ or added geologic material for class I residual waste landfill, not less than 10 feet for class II, and not less than 5 feet for class III.				

OAC 3745-30-05 Paragraph	Information/Criteria	Meets	Doesn't Meet	See Attached
(B)(5)(b)(vi)	Permanent ground-water control structures	_____	_____	_____
(B)(5)(c)	Potential explosive gas migration pathways (only if required by paragraph (E) of OAC Rule 3745-30-06)	_____	_____	_____
DETAILED CONSTRUCTION AND OPERATIONAL PLANS				
(B)(6)(a)	Phase preparation	_____	_____	_____
(B)(6)(b)	Location of on-site soil borrow and storage areas	_____	_____	_____
(B)(6)(c)	Direction of prevailing winds during each season	_____	_____	_____
(B)(6)(d)	Anticipated direction that working face will proceed	_____	_____	_____
(B)(6)(e)	Areas of operation during inclement weather	_____	_____	_____
(B)(6)(f)	Traffic patterns	_____	_____	_____
(B)(6)(g)	Surface water flow, points of concentration, etc.	_____	_____	_____
(B)(6)(h)	Grades of the completed phase	_____	_____	_____
DETAIL DRAWINGS				
(B)(7)(a)	Recompacted soil liner with phase interface	_____	_____	_____
(B)(7)(b)	Cap system	_____	_____	_____
(B)(7)(c)	Key systems for the cap system, leachate management system, etc.	_____	_____	_____
(B)(7)(d)	Leachate management system elements	_____	_____	_____
(B)(7)(e)	Permanent ground-water control structures	_____	_____	_____
(B)(7)(f)	Ground-water monitoring well construction	_____	_____	_____
(B)(7)(g)	Explosive gas control and extraction system elements (if any)	_____	_____	_____
(B)(7)(h)	Explosive gas monitoring probe construction (if any)	_____	_____	_____
(B)(7)(i)	Earthen structures (if any)	_____	_____	_____
(B)(7)(j)	On-site roads with vertical profiles showing maximum grades	_____	_____	_____
(B)(7)(k)	Sedimentation pond and discharge structures, etc.	_____	_____	_____
NARRATIVE DESCRIPTION/INFORMATION				
Summary				
(C)(1)	Waste characterization, landfill classification, etc.	_____	_____	_____
Residual waste characterization report				
(C)(2)(a)	Listing of each residual waste and its approximate %	_____	_____	_____
(C)(2)(b)	Name, location and contact person for each generator	_____	_____	_____
(C)(2)(c)	Residual waste sampling plan	_____	_____	_____

DAC 3745-30-05

Paragraph	Information/Criteria	Meets	Doesn't Meet	See Attached
(C)(2)(d)	Description of any mixing	_____	_____	_____
(C)(2)(e)	Laboratory results and supporting QA/QC documentation	_____	_____	_____
Hydrogeologic site investigation report				
(C)(3)(a)(i)	Suitability of the site for residual waste disposal	_____	_____	_____
(C)(3)(a)(ii)	Hydrogeology of the uppermost aquifer system, etc.	_____	_____	_____
(C)(3)(a)(iii)	Characterization of the site geology	_____	_____	_____
APPROVAL CRITERIA	30-06(B)(1): Facility not located in a sand or gravel pit where the sand or gravel deposit has not been removed.	_____	_____	_____*
APPROVAL CRITERIA	30-06(B)(2): Facility not located in a limestone or sandstone quarry.	_____	_____	_____*
- description of the regional hydrogeology				
(C)(3)(b)(i)	Identification of the regional aquifer(s)	_____	_____	_____
APPROVAL CRITERIA	30-06(B)(5): Facility not located above an aquifer declared by the federal government to be a sole source aquifer.	_____	_____	_____*
(C)(3)(b)(ii)	Well logs of water supply wells	_____	_____	_____
(C)(3)(b)(iii)	Average yield of water supply wells	_____	_____	_____
APPROVAL CRITERIA	30-06(B)(9): Facility not located above an unconsolidated aquifer capable of sustaining a yield of 100 gallons per minute for a 24 hour period to a water supply well located within 1000 feet of the limits of residual waste placement.	_____	_____	_____*
(C)(3)(b)(iv)	Direction of ground-water flow in the regional aquifer	_____	_____	_____
(C)(3)(b)(v)	Recharge and discharge areas of the regional aquifer	_____	_____	_____
(C)(3)(b)(vi)	Public water supply wells	_____	_____	_____
(C)(3)(b)(vii)	Regional stratigraphy	_____	_____	_____
(C)(3)(b)(viii)	Local and regional structural geology	_____	_____	_____
(C)(3)(b)(ix)	Description of the regional geomorphology	_____	_____	_____
- detailed description of the site hydrogeology				
(C)(3)(c):				
(i)	Consolidated and unconsolidated stratigraphic units	_____	_____	_____
(i)(a)(i)	Textural classification of soil - USCS	_____	_____	_____
(i)(a)(ii)	Atterberg limits	_____	_____	_____
(i)(a)(iii)	Grain size distribution	_____	_____	_____
(i)(a)(iv)	Hydraulic conductivity of unconsolidated formations	_____	_____	_____
(i)(b)	Thickness of stratigraphic units	_____	_____	_____
(i)(c)	Lateral extent of stratigraphic units	_____	_____	_____

OAC 3745-30-05 Paragraph	Information/Criteria	Meets	Doesn't Meet	See Attached
(ii)	Description of the site geomorphology	_____	_____	_____
(iii)	Description of the site structural geology	_____	_____	_____
(iv)	Description of the uppermost aquifer system, etc.	_____	_____	_____
(iv)(a)	Temporal fluctuations in ground-water levels, etc.	_____	_____	_____
(iv)(b)	Interpretation of the ground-water flow system	_____	_____	_____
(iv)(c)	Recharge and discharge areas of the site	_____	_____	_____
(iv)(d)	Vertical and horizontal hydraulic conductivity	_____	_____	_____
	- description and quantification of the ground-water quality			
(C)(3)(d)	Ground-water quality, source of contamination, analysis	_____	_____	_____
	- detailed description of methods and procedures			
(C)(3)(e)(i)	Drilling and soil sampling methods	_____	_____	_____
(C)(3)(e)(ii)	Procedures etc. used to characterize soil and rock	_____	_____	_____
(C)(3)(e)(iii)	Methodology etc. used to define the uppermost aquifer	_____	_____	_____
(C)(3)(e)(iii)(a)	Well and piezometer construction specifications	_____	_____	_____
(C)(3)(e)(iii)(b)	Water level measurement procedures	_____	_____	_____
(C)(3)(e)(iv)	Methodology etc. used to determine ground-water quality	_____	_____	_____
(C)(3)(e)(iv)(a)	Collection of ground-water samples	_____	_____	_____
(C)(3)(e)(iv)(b)	Performance of field analysis	_____	_____	_____
(C)(3)(e)(iv)(c)	Decontamination of equipment	_____	_____	_____
(C)(3)(e)(iv)(d)	Analysis of ground-water samples	_____	_____	_____
(C)(3)(e)(iv)(e)	Chain of custody control	_____	_____	_____
(C)(3)(e)(iv)(f)	Field and laboratory QA/QC	_____	_____	_____
	- data generated for the Hydrogeologic Site Investigation Report			
(C)(3)(f)	Boring logs, test pit logs and other data	_____	_____	_____
	Detailed measures and operations to control and manage the following:			
(C)(4)(a)	Leachate production and migration	_____	_____	_____
(C)(4)(b)	Ground-water infiltration	_____	_____	_____
(C)(4)(c)	Explosive gas migration (only if required by paragraph (E) of OAC Rule 3745-30-06)	_____	_____	_____
(C)(4)(d)	Fires, dust, scavenging, vectors, erosion, etc.	_____	_____	_____
(C)(4)(e)	Surface water run-on and runoff and sediment discharge	_____	_____	_____

OAC 3745-30-05
Paragraph

Information/Criteria

Meets Doesn't See
 Meet Attached

Design calculations for the following:

(C)(5)(a)	Volume and life of the facility	_____	_____	_____
(C)(5)(b)	Liner thickness	_____	_____	_____
(C)(5)(c)	Hydrostatic forces on the recompacted soil liner	_____	_____	_____
(C)(5)(d)	Leachate generation	_____	_____	_____
(C)(5)(e)	Leachate management system	_____	_____	_____
(C)(5)(f)	Pump size	_____	_____	_____
(C)(5)(g)	Pipe strength and pipe deflection	_____	_____	_____
(C)(5)(h)	Resistance to earth movement	_____	_____	_____
(C)(5)(i)	Resistance to horizontal acceleration	_____	_____	_____
(C)(5)(j)	Slope stability analysis	_____	_____	_____
(C)(5)(k)	Necessary volume of soil	_____	_____	_____
(C)(5)(l)	Soil erosion	_____	_____	_____
(C)(5)(m)	Surface water control structure	_____	_____	_____
(C)(5)(n)	Sedimentation basin	_____	_____	_____
(C)(5)(o)	Explosive gas threshold limit (only if required by paragraph (E) of OAC Rule 3745-30-06)	_____	_____	_____
(C)(5)(p)	Other relevant calculations	_____	_____	_____

Construction information

(C)(6)(a)	Site preparation	_____	_____	_____
(C)(6)(b)	Sequence of construction activities	_____	_____	_____
(C)(6)(c)	Installation of items from rules 3745-30-07, 3745-30-08	_____	_____	_____
(C)(6)(d)	Seaming and bonding of geosynthetic materials	_____	_____	_____
(C)(6)(e)	Seismic impact zone design specifications	_____	_____	_____
(C)(6)(f)	Unstable area design specifications	_____	_____	_____
(C)(6)(g)	Chemical compatibility testing	_____	_____	_____

Operational information

(C)(7)(a)	Sources of cover material, quantity, etc.	_____	_____	_____
(C)(7)(b)	Handling of residual waste and dusty materials	_____	_____	_____
(C)(7)(c)	Methods used to stabilize residual waste (if any)	_____	_____	_____
(C)(7)(d)	Equipment for construction, operation, and maintenance	_____	_____	_____
(C)(7)(e)	Schedule of leachate management system inspections	_____	_____	_____
(C)(7)(f)	Inclement weather operation procedures	_____	_____	_____
(C)(7)(g)	Salvaging operation procedures (if any)	_____	_____	_____
(C)(7)(h)	Use of facility portion where waste is not deposited	_____	_____	_____
(C)(7)(i)	Authorized maximum daily waste receipt (does not apply to a residual waste landfill facility owned by a generator that exclusively disposes of residual wastes generated at one or more premises owned by the generator)	_____	_____	_____

OAC 3745-30-05

Paragraph

Information/Criteria

Meets	Doesn't Meet	See Attached
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Plans

(C)(8)(a)	Ground-water monitoring program	_____	_____	_____
(C)(8)(b)	Surface water monitoring program	_____	_____	_____
(C)(8)(c)	Leachate monitoring plan	_____	_____	_____
(C)(8)(d)	Leachate treatment and disposal contingency plan	_____	_____	_____
(C)(8)(e)	Explosive gas monitoring, sampling, and reporting (only if required by paragraph (E) of OAC Rule 3745-30-06)	_____	_____	_____
(C)(8)(f)	QA/QC control plan	_____	_____	_____
(C)(8)(g)	Final closure/post closure plan	_____	_____	_____

Letters and other documents

(C)(9)(a)	Letter from appropriate agency describing mine(s)	_____	_____	_____
(C)(9)(b)	Letter from appropriate agency describing oil/gas wells	_____	_____	_____
(C)(9)(c)(i)	Letter of intent to the governments	_____	_____	_____
(C)(9)(c)(ii)	Letter of intent to the solid waste management district	_____	_____	_____
(C)(9)(c)(iii)	Letter of intent to the owner or lessee	_____	_____	_____
(C)(9)(c)(iv)	Letter of intent to the local zoning authority	_____	_____	_____
(C)(9)(c)(v)	Letter of intent to the airport administrator	_____	_____	_____
(C)(9)(c)(vi)	Letter of intent to the park system administrator	_____	_____	_____
(C)(9)(c)(vii)	Letter of intent to the conservancy district	_____	_____	_____
(C)(9)(d)	Name and address of contracted third party for QA/QC	_____	_____	_____
(C)(9)(e)	Proof of property ownership or lease agreement	_____	_____	_____
(C)(9)(f)	Notarized statement of truth and accuracy	_____	_____	_____