Design and Construction Criteria Completeness Checklist Chapter NR 504, Wis. Adm. Code					WISCONSIN DEPT. OF NATURAL RESOURCES
			Wa	ste & Mate	rials Management
Revised August 2018					P.O. Box 7921
				Madiso	n, WI 53707-7921
Instructions: This checklist is intended for use by department staff for the review o completeness. The checklist may also be used by applicants and su department review. Refer to applicable statues and codes for exact	ubmitted	with a l			
General Information					
Facility Name:	_	Li	cense/M	onitoring #	
Facility Type:	-				
Initial Submittal: Date Received:// Completeness Due://	_ DNR F	Respons	e:/	/ (Cor	nplete: yes no)
Addendum # Date Received:// Completeness Due://	_ DNR F	Respons	e:/	/ (Cor	nplete: yes no)
Addendum # Date Received:// Completeness Due://	_ DNR F	Respons	e:/	/ (Cor	nplete: yes no)
Proposed Waste Types:					
Proposed Total Design Capacity: (including dail	y and int	ermediat	e covers)	)	
DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	С	OMPLE	ΓE?	LOCATION	COMMENTS
	Y	Ν	NA		
NR 504.04(3) LOCATIONAL CRITERIA. Are the proposed limits of filling within:					
(a) 1,000 feet of any navigable lake, pond or flowage not including landfill drainage or sedimentation control structures?					
Yes no					
If yes, was an exemption requested?					
(b) 300 feet of any navigable river or stream?					
ves no					

\_\_\_\_\_ If yes, was an exemption requested?

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	OMPLE	TE? LOCATION		COMMENTS
	Y	Ν	NA		
c) A 100-year flood plain?					
yesno					
If yes, was an exemption requested?					
d) 1,000 feet of the nearest edge of the right-of-way of any state trunk highway,					
interstate or federal aid primary highway or any public park or state natural area?					
yesno					
If yes, was a line of site study provided showing that the landfill would not be					
visible from the road, park or natural area through the use of screening and/or,					
was an exemption requested?					
Note: If waste may be visible for periods of time even with the use of screening, then an exemption should					
be requested.					
e) 10,000 of the end of an airport runway designed or planned to be designed and					
used by turbojet aircraft or within 5,000 feet of any airport runway designed for and					
used by piston type aircraft?					
yesno					
Is FAA notification required?					
yes no					
Note: If the proposed limits of waste filling would be within <u>5 miles</u> of the end of the runway of any airport					
used by turbojet or piston type aircraft, the applicant must provide notice to both the Federal Aviation Administration (FAA) and the affected airport. The report should contain all correspondence related to the					
notices including any determinations made by the FAA.					
f) 1,200 feet of any water supply well (i.e. public, private, irrigation or stock water					
supply wells)?					
yesno					
was an exemption requested?					
If yes, have the following been provided for each identified well?					
well locationformer and present well owner					
well driller well construction log					
Note: Exemptions may not be granted if the above information is not provided.					
g) 200 feet of a fault that has had displacement in Holocene time?					
yes no					
If yes, was an exemption requested?					
h) Seismic impact zones?					
yesno					
If yes, was an exemption requested?					
i) Unstable areas?					
yesno					
If yes, was an exemption requested?					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	С	OMPLE <sup>-</sup>	TE?	LOCATION	FION COMMENTS
	Y	Ν	NA		
<b>IR 504.04(4) PERFORMANCE STANDARDS.</b> Will the proposed landfill cause the					
ollowing:					
(a) A significant adverse impact on wetlands?					
yes no					
Has a practicable alternatives analysis and a wetland functional values analysis					
been completed in accordance with ch. NR 103, if a wetland will be affected by the					
proposed landfill or any noncommercial soil borrow source activity?					
Note: See Waste & Materials Management Program guidance for application of NR 103 and a wetland permit may be needed per s. 281.36, Stats.					
<ul><li>(b) A take of an endangered or threatened species in accordance with s. 29.604, Stats?</li></ul>					
yesno					
(c) A detrimental effect on any surface water?					
ves no					
Note: Exemptions are <u>not</u> granted.					
(d) A detrimental effect on groundwater quality or will cause or exacerbate an					
attainment or exceedance of any preventive action limit or enforcement standard at					
a point of standards application as defined in ch. NR 140?					
yes no					
Has an exemption been requested to the groundwater standards in accordance					
with ss. NR 507.29 and NR 140.28, Wis. Adm. Code? If an exemption is					
required, does the feasibility report include:					
A list of the specific wells and parameters for which an exemption is being					
requested.					
A discussion of how the criteria listed in s. NR 140.28(2), (3) and (4) are met.					
(e) The migration and concentration of explosive gases in excess of 25% of the lower					
explosive limit for such gases at any time?					
yesno					
(f) The emission of any hazardous air contaminant exceeding the limitations for those					
substances contained in s. NR 445.04 or 445.05?					
IR 504.05 GENERAL DESIGN AND CONSTRUCTION CRITERIA.					
<ol> <li>Is the landfill designed in substantial conformance with the design criteria in ss. NR 504.06 to 504.09?</li> </ol>					
2) Is supporting justification included for any differences from ss. NR 504.06 to 504.09?					
3) Is the proposed operating life of the landfill between 10 and 15 years?					
If the proposed life is not between 10-15 years is the facility exempted in s. 289.28(2),					
Stats. or the expansion of an existing facility?					

Facility	/ Name:
raumu	/ INALLIC.

Y         N         NA           R 50.4.06 MINIMUM DESIGN AND CONSTRUCTION CRITERIA FOR LANDFILL         Image: Construction of the construction systems.         Image: Construction construction construction construction system capable of limiting the average leachate head on the composite liner to floot or loss during operation and after closure of the landfill?         Image: Construction composite liner to floot or loss during operation and after closure of the landfill?         Image: Construction construction construction system capable of limiting the average leachate to deal or motion composite liner to floot or loss during operation and after closure of the landfill?         Image: Construction construction construction construction construction meet the following:	DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	С	OMPLE <sup>-</sup>	TE?	LOCATION	COMMENTS
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(1) GENERAL.       Image: Construction of the set of the se	NR 504.06 MINIMUM DESIGN AND CONSTRUCTION CRITERIA FOR LANDFILL					
(a) If the landfill is proposed to accept municipal solid waste does the design incorporate a composite liner and a leachate collection system capable of limiting the average leachate head on the composite liner to 1 foot or less during operation and after closure of the landfill?         Does the composite liner consist of the following: An upper geomembrane component with nominal 60-mil minimum thickness An upper geomembrane component with nominal 60-mil minimum thickness         (2) COMPOSITE OR CLAY LINED LANDFILLS. Does the composite liner or clay liner design meet the following requirements: A aturate hydraulic conductivity of 1x10 <sup></sup> cordsc or less A average leaditic conductivity of 1x10 <sup></sup> cordsc or less A average leaditic conductivity of 1x10 <sup></sup> cordsc or less A naverage placitic liner or 22 or greater with no values less than 10 (b) Is there at least a 10 foot separation between the seasonal high groundwater table and the bottom of the clay liner component? Note: For one of saluration landfills selent NA.         (c) Is there a minimum 2% liner surface slope toward the leachate collection system? (f) 1. Are the clay layers proposed to be constructed in the following manner: 	LINERS AND LEACHATE COLLECTION SYSTEMS.					
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(a) Are interior sidewall slopes at a maximum of 3H·1V or at a minimum of 5H·1V/2	(g) Are interior sidewall slopes at a maximum of 3H:1V or at a minimum of 5H:1V?					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	OMPLE	ΓE?	LOCATION	COMMENTS
	Y	N	NA		
(h) Are clay components of the liner in adjacent phases keyed together?		-			
Is the keying accomplished by excavating a minimum of 4 steps with a total width of					
spliced area measuring at least 15 feet?					
(3) COMPOSITE-LINED LANDFILLS. If the landfill is composite lined, are the following					
requirements specified in the plan of operation:					
(a) Is the geomembrane specifically formulated for waste containment purposes?					
Is the nominal geomembrane thickness 60 mil or greater with no thickness below					
minimum industry accepted manufacturing tolerances?					
(b) Is there geomembrane protection along areas of traffic or concentrated activity such					
as sumps, sideslope risers and entry ramps?					
(c) For slopes in excess of 10%, will geomembrane panels be installed with panel					
seams perpendicular to the contour lines of the slope?					
(d) Prior to geomembrane placement, will the clay surface be prepared as follows:					
Rolling and grading of clay surface to remove irregularities, protrusions, loose soil					
and abrupt changes in grade,					
Free of stone, grading stakes, construction debris and contain no areas softened					
by high water content					
Sufficiently dry and dense clay surface such that the construction equipment will not create ruts					
Depressions and large cracks filled with tamped clay					
(e) Will the geomembranes be welded as follows:					
Geomembrane panels welded by double-tracked, fusion welding machines for all					
linear seams,					
Fusion welding of corners, butt seams and long repairs where possible,					
Extrusion or fusion welding for all other repairs, detail work and patches,					
Request for Department approval for other welding methods.					
(f) Will geomembrane components in adjacent phases be welded together to form a					
continuous geomembrane surface?					
Will the liner extended beyond the proposed edge of waste at a phase junction be					
protected from traffic and weather?					
(g) Will wrinkles which are taller than they are wide be smoothed or cut out prior to					
covering with soil?					
Will guidance be provided to machine operators placing soil on geomembrane by					
the use of an observer with an unobstructed view of the advancing lift of soil.					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	OMPLE	ΓE?	LOCATION	COMMENTS
	Y		NA		
(h) Are the following minimum soil thickness on geomembrane proposed before	-				
vehicular traffic may occur:					
1 foot for vehicles with ground pressure less than 5 pounds per square inch,					
2 feet for other vehicles equipped with tracks and floatation tires,					
3 feet or more for trucks or wheeled hauling equipment.					
(i) In order to lessen desiccation effects, will the landfill base and the lower 10 feet of					
the sideslope be covered with a drainage blanket within 30 days after completing					
quality control and quality assurance testing?					
Will the remaining sideslope be covered with either drainage material or geotextile to					
prevent damage to the geomembrane?					
(j) Will placement of soil over the geomembrane be performed during cooler					
temperature periods to the extent possible using methods which minimize wrinkling?					
(k) Will anchor trenches be designed and constructed around the landfill to secure the					
permanent edges of the geomembrane?					
Will geomembrane be seamed completely to the edge of the panel end to minimize					
potential of tear propagation?					
(4) ZONE-OF-SATURATION LANDFILLS. Landfills with proposed base grades below the					
groundwater table must meet the following:					
(a) Is the landfill located in a fine-grained soil environment?					
(b) Does the landfill meet the requirements of sub. (2)(a), (d), (e), (f), (g) and (h) and the					
requirements under sub. (3), if the landfill will accept municipal solid waste?					
(c) Has an analysis been performed on the effect which groundwater may have on uplift					
of the liner and the short and long-term stability of the geomembrane component?					
Does the analysis evaluate the effect of an underdrain or other dewatering system?					
(d) Have borings, backhoe pits or other means of exposing the subsurface soils been					
proposed on a 100-foot grid to a minimum 5 foot depth below the subbase grades of					
the liner?					
Are all granular or silty soils detected within this 5 foot depth proposed to be					
removed?					
(5) LEACHATE COLLECTION SYSTEMS. The leachate collection system must					
incorporate the following design features:					
(a) Does the leachate collection system design include the following features:					
A leachate collection system included in each horizontal phase,					
Leachate routed to the landfill perimeter in the most direct manner possible,					
Limit average leachate head on the liner to 1 foot or less,					
Limit maximum leachate flow distance to the perforated collection pipe to 130					
feet.					

Facility Name:
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DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	С	OMPLE	TE?	LOCATION	COMMENTS
	Y	N	NA		
(b) Is the slope on the leachate collection pipe a minimum of 0.5%?					
(c) Is the minimum diameter of all leachate collection pipes 6 inches?					
Are all collection pipes proposed to be Schedule 80 PVC pipe or an approved					
substitute?					
(cm) Are the proposed pipe fittings for use with PVC and HDPE pipe secured to the					
leachate collection pipe as follows:					
PVC fittings and pipe solvent-welded					
HDPE fittings and pipe fusion welded					
(d) Do the leachate collection trenches conform to the following:					
Rectangular leachate collection trenches for clay liners					
V-trenches with a maximum 18 inches depth and 3H: 1V sideslope for composite					
liners					
V-trenches smooth-drum rolled prior to placement of the membrane					
(dm) Is a geotextile with a weight of 12 oz/yd <sup>2</sup> used to line the trench base and					
sidewalls and is it placed directly over the geomembrane					
Does the design show that the geotextile does not overlap across the top of the					
trench.					
Are the geotextile specifications, including manufacturer's data for grab and					
puncture strength, used to demonstrate the resistance to damage from the aggregate to be placed over the geotextile?					
(e) Does the leachate collection pipe trench backfill conform to the following:					
Uniformity coefficient of less than 4,					
Maximum particle diameter of 1 ½ inches,					
Maximum of 5% passing the number 4 sieve,					
Rounded to subangular gravel,					
Minimum 4 inches bedding depth before installation of leachate pipe,					
Minimum 6 inches of granular material above the pipe, and an additional 12					
inches of material mounded above the trench,					
Graded soil filter or geotextile to minimize migration of drainage blanket into the					
trench, in cases where particle size of the bedding is significantly less than the					
collection trench bedding					
No use of limestone and dolomite as trench backfill.					
If limestone and dolomite are proposed for use as trench backfill, does the plan					
of operation address that there is no other suitable material reasonably available?					
(f) Have the sand and gravel sizes and geotextile and pipe openings been analyzed for					
the control of piping of soil materials and have the materials been chosen to achieve					
a stable and self-filtering structure under all conditions of leachate flow?					

Facility Name:				1	
DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	COMPLETE?			LOCATION	COMMENTS
	Y	Ν	NA		
(g) Do leachate collection lines have cleanout access on both ends of pipes?					
Does each leachate collection line have a maximum distance of 1,200 feet from the					
end of one cleanout to the toe of the opposite slope?					
(h) Are there no vertical liner penetrations due to leachate lines, manholes and other					
engineering structures?					
For clay lined landfills, are liner penetrations limited to leachate transfer lines in the					
horizontal direction only?					
For composite lined landfills, are there no liner perforations?					
(i) Is a 4'x4', 5 foot thick, anti-seep collar placed around any leachate transfer line					
penetrating the clay liner?					
(j) Is the composite lined landfill designed with a sump and sideslope riser meeting the					
following requirements:					
1. Sump volume and pump capacity sized to accommodate an annual leachate					
collection rate of 6 inches taking into account the potential for solids to build up over					
time.					
2. Sump base protected with polyethylene plate or other acceptable means and					
placed prior to sideslope riser and backfill installation.					
3. Leachate discharge pipe between the sideslope riser and the tank installed					
with valves to prevent backflow into the waste disposal area.					
4. Sideslope riser pipe has a minimum diameter of 18 inches and geometry at the					
junction of the sump and sidewall to assure passage of the pump and hardware and					
assure correct positioning of the intake of the pump.					
5. The area of the sump and depth of gravel fill are sized to allow remedial					
installation of access and hardware for removal of leachate if the sideslope riser and					
pump system fail.					
(k) Are gravity lines transporting leachate out of the landfill constructed with valves for					
flow control, and are the valves compatible with the leachate and operable from the					
ground surface?					
(I) Are all leachate lines located outside the landfill double-cased or in an approved					
secondary containment?					
Are all leachate transfer lines proposed to be pressure tested prior to use?					
Is the upslope end of secondary pipe sealed and the downslope end open to drain					
into the manhole?					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	OMPLE	TE?	LOCATION	COMMENTS
	Y	N	NA		
(m) Are all leachate transfer lines, manholes, lift stations and other structures outside the					
waste limits designed to meet the following:					
Designed as shallow as practical, and as far from the waste limits as possible so					
repair of these devices would not infringe on the landfill cover or liner systems					
Constructed above the seasonal high groundwater table.					
If not constructed above the water table, is it not technically feasible to do so					
and does the design meet the requirements of (I) above.					
(n) Are leachate collection tanks and manholes designed with the following:					
Secondary containment to prevent leachate discharge to ground and surface					
water					
Means to monitor the tank or manholes for leaks within the secondary					
containment					
If no, is an alternative method proposed?					
(o) Are the leachate tanks designed to:					
Contain leachate volume generated over a 4 day period,					
Withstand the soil and liquid loads encountered during installation and use					
Follow the consultant and manufacturer installation instructions.					
(p) Does the leachate loadout station design contain the following:					
Measures to prevent accidental leachate discharge at the loadout from entering					
ground or surface water,					
A loadout station paved and sloped to a catch basin to direct all spills to a catch					
basin.					
(q) Are leachate and gas system manholes and enclosures vented and do they have					
controlled access?					
For landfills designed with active extraction, are manholes and enclosures designed					
to minimize air intrusion?					
(r) Are all pumps, valves and meters designed to be controlled and operated from					
ground surface?					
(s) Are all leachate and groundwater collection systems designed to monitor the liquid					
volume removed?					
(t) Is there a minimum one foot thick granular drainage blanket placed on top of the					
geomembrane for a composite liner or on top of the clay component of a clay liner					
which contains the following elements:					
no more than 5% passing 200 sieve					
_ If the granular layer contains gravel greater than $\frac{1}{4}$ ", a certified needle free					
minimum 12 oz/yd <sup>2</sup> nonwoven geotextile below the drainage blanket					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	OMPLE	TE?	LOCATION	COMMENTS
	Y	Ν	NA		
<ul> <li>(tm) Hydraulic conductivity (at anticipated field density) equal to or greater than 1 cm/sec for sites that accept any amount of MSW or 1x10<sup>-2</sup> cm/sec for landfills that do not accept MSW</li> <li> Was the gradation of the drainage blanket (and associated hydraulic conductivity) selected to maintain the maximum head in the drain within the drain</li> </ul>					
thickness?					
(u) If the major horizontal clay lined phase is above the saturated zone, is each phase designed with collection basin lysimeter (except for composite lined landfills)?					
(6) ADDITIONAL REQUIREMENTS FOR LANDFILLS WITH EXTENDED COLLECTION LINES. Landfills with leachate collection lines that exceed 1,200 feet and will accept MSW must meet the following:					
<ul> <li>(a) Do any leachate collection lines exceed 1,200 feet when measured from the end of <u>each</u> cleanout to the toe of the opposite slope?</li> <li>Will the landfill accept MSW?</li> <li>If no, check NA for (b) through (f) below.</li> </ul>					
(b) Is the maximum length of each leachate collection line 2,000 feet or less from the access point at one end to the toe of the opposite slope?					
<ul> <li>(c) Is the slope on the leachate collection pipe a minimum of 0.5% after accounting for primary and secondary settlement of the subgrade?</li> <li>Note: The minimum design slope is selected following computation of 100% of the primary and secondary consolidation settlement beneath the facility, which includes, as applicable, in-situ soil, added geologic material structural fill material, and compacted clay liner. Secondary settlement shall be calculated using a 100-year timeframe.</li> </ul>					
<ul> <li>(d) Is the pipe bedding material composed of course, uniform gravel with hydraulic conductivity greater than or equal 1 cm/sec?</li> <li>Note: This requirement is in addition to meeting the other requirements of s. NR 504.06(5)(e).</li> </ul>					
<ul> <li>(e) Has the maximum anticipated construction, operation and post-closure overburden loads over the leachate collection piping been calculated and used in selecting pipe material and wall thickness?</li> <li> Were the calculations based on a 6 inch pipe diameter and appropriate in-field consolidated density?</li> </ul>					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	OMPLE	TE?	LOCATION	COMMENTS
	Y	Ν	NA		
(f) Have all components of the leachate collection system incorporated the following					
design features:					
prefabricated or smooth sweep bends with a minimum radius of 10 pipe					
diameters					
pipe alignments that minimize horizontal and vertical alignment changes for the					
entire pipe length					
elimination or minimization of obstructions which impose drag on pipe cleaning					
jetter hose or nozzles					
(7) COMPOSITE-LINED LANDFILLS USING GCLs.					
Is GCL proposed for use in a composite liner?					
If no, indicated NA for the following and $(a) - (c)$ .					
Does the landfill accept only non MSW waste?					
Or if it accepts MSW will the GCL be placed over the 4 foot clay liner?					
If yes to either, the design must meet the requirements of $(a) - (c)$ .					
If no to both, then GCL may not be used as proposed.					
(a) Has the hydraulic performance of the GCL been assessed by use of compatibility					
testing?					
(b) Does the GCL meet the specifications of NR 504.07(4)(a)1 to 11?					
(c) Is the GCL underlain by a soil barrier layer a minimum 2 feet thick and meets the					
specifications of NR 504.07 (4)(a) 12. To 17.					
NR 504.07 MINIMUM DESIGN AND CONSTRUCTION CRITERIA FOR FINAL COVER					
SYSTEMS.					
(1) GENERAL.					
(a) Is the final cover system designed to?					
Minimize leachate generation by limiting the amount of percolation through the					
сар					
Reduce landfill maintenance by design of compatible surface slopes and					
vegetation					
Account for differential settlement and other stresses on the capping layer					
Minimize freeze-thaw effects and desiccation of clay capping layer					
Provide for removal of leachate and venting of gas from landfills accepting					
wastes with high moisture content or that which is readily biodegradable					
(b) Does the final cover system meet the requirements of subs. (2) to (9) below unless it					
is established (to the satisfaction of the department) that portions of final cover					
system are not needed based on proposed waste type and design?					

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DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	OMPLE	ГЕ?	LOCATION	COMMENTS
	Y	Ν	NA		
<ul> <li>7. Loose bentonite or bentonite amended soil will be placed at all patches and penetrations</li> <li>8. GCL panels are certified needle-free through magnetic and metal detection tests</li> <li>9. GCL will be placed in direct contact with a soil barrier layer</li> <li>10. Vehicle traffic on subgrade of GCL and on GCL will be restricted to minimum weight and number of machines to deploy GCL and geomembrane; vehicles operated to minimize damage to subgrade, GCL and geomembrane; deployment methods selected to prevent tearing or coming out of fibers of the GCL</li> <li>11. Soil cover placement over the geosynthetics will be completed in the same construction season as the geosynthetic construction</li> <li>12. Soil barrier layer will consist of fine-grained soil or a well graded sandy soil with fines, meeting USCS soil types ML, CL, CH, SM, or SC or dual -symbols classifications of these soils, with 25% by weight passing P200 sieve; upper one foot will have maximum particle size of 2 inches and lower one foot will have maximum particle size of 4 inches</li> <li>13. Soil barrier layer will be compacted in lift heights of no greater than 12 inches after compaction using footed compaction equipment with feet at least 6 inches long; each lift will be disked to break up clods; clods no greater than 4 inches</li> <li>14. Soil barrier layer will be compacted to ensure complete remolding of soil with equipment having a minimum static weight of 30,000 pounds</li> <li>15. Soil barrier layer will be compacted to 90% modified or 95% standard Proctor density or greater at a moisture content at or wet of optimum</li> <li>16. Each lift of will be keyed into clay or soil barrier layer soils in adjacent phases to form a continuous seal; steps will be a minimum width of 2 feet and there will be a minimum of 2 steps</li> <li>17. The surface of the top lift will be graded or compacted to be smooth and firm and will be inspected for removal of course grave, cobbles and debris prior to placement of GCL</li> </ul>					
<ul> <li>(b) For industrial waste landfills that predominantly accept compressible wastes or wastes with high water contents and low strength, will the landfill be replacing the clay layer with a GCL overlying a minimum one foot sand layer?</li> <li>If yes, will the gradation of the sand layer be a uniform sand selected to vent gas, drain leachate and provide hydration water to the GCL?</li> </ul>					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	С	OMPLE	ГЕ?	LOCATION	COMMENTS
	Y	N	NA		
(c) For industrial waste landfills that predominantly accept ash, will the landfill be					
replacing the clay layer with a GCL overlying a minimum two feet soil barrier layer?					
If yes, will the soil barrier layer meet the requirement of (a)13 to 17 above and will					
the upper foot of soil barrier layer meet the requirements of (a)12 above?					
Note: The lower foot shall be designed to provide a capillary break between the ash and the upper one foot of soil barrier layer.					
(d) If the lower one foot of the clay layer is replaced with a one foot of foundry green					
sand system sand, will the sand meet the following:					
Bentonite content of greater than 6%					
Liquid limit of greater than 20					
Plasticity index of greater than 6					
Hydraulic conductivity of less than 1X10 <sup>-7</sup> cm/sec					
Compaction of 90% modified or 95% standard Proctor density or greater at a					
moisture content at or wet of optimum					
(5) GEOMEMBRANE LAYER.					
If a geomembrane layer is proposed, does it meet the requirements of NR 504.06(3)(c)					
to (j) and the following:					
(a) Nominal geomembrane thickness 40 mils or greater, and no thickness					
measurements below accepted industry tolerance					
(b) Geomembrane installed in direct contact with the clay capping surface					
(c) Geomembrane penetrations fitted with prefabricated collar or a plate welded at the					
angle of final cover slope, which allows for differential settlement of waste without					
damage to the membrane seal					
(6) DRAINAGE ROOTING ZONE LAYER. Does the design include a drainage and rooting					
zone layer over the geomembrane or the clay cap, which meets the following					
requirements:					
A minimum thickness of 2.5 feet and is not densely compacted					
(a) Drainage layer is designed to be placed immediately above the capping layer and					
consists of a 1 foot sand layer with a min. hydraulic conductivity of 1x10 <sup>-3</sup> cm/sec., or					
a geosynthetic drain layer of equivalent or greater transmissivity Note: The design shall include an analysis which demonstrates whether the maximum head in the drain					
layer will be confined within the thickness of the drain. Drain calculations shall include infiltration rates					
based on saturated characteristics of the topsoil and rooting zone and a hydraulic gradient of one through					
the topsoil and rooting zone.					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	OMPLE	TE?	LOCATION	COMMENTS
	Y	N	NA		
(b) A perimeter drain pipe at the low end of all final cover sideslopes with the following					
design elements:					
Drain pipe surrounded by a minimum of 6 inches of gravel or sand having a					
minimum hydraulic conductivity of 1x10 <sup>-2</sup> cm/sec					
Drain pipe sloped to outlets spaced 200 feet apart unless different spacing is					
supported by modeling					
(7) TOPSOIL.					
Is a minimum of 6 inches of topsoil included over the cover layer?					
Is fertilizer and lime addition proposed per section 630, WDOT or other spec.?					
(8) REVEGETATION.					
Is seed type and fertilizer based upon type and quality of topsoil, and compatibility					
with the native vegetation and final use?					
Is seed mix and application rates per section 630 WDOT specifications unless the					
department approved different seed mix and application rates?					
Are fertilizer and mulch application rates specified?					
(9) FINAL USE.					
(a) Is final use compatible with the final cover system?					
(b) Are the following activities prohibited when landfill is no longer in operation?					
Use of waste disposal area for agricultural purposes					
Establishment or construction of any buildings over the waste disposal areas					
Excavation of final cover or any waste materials					
NR 504.075 SOIL BORROW SOURCES.					
(1) GENERAL.					
Is the soil borrow source being developed for the purpose of construction, operating or					
closing a landfill?					
If yes, this section applies.					
Note: Written approval from the department shall be obtained prior to initiating soil borrow activities at any borrow source subject to these requirements.					
(2) EXEMPTIONS. The following activities are exempt from the requirements of this					
section:					
(a) The production of processed aggregate products.					
Excavation of soils from construction projects off of the landfill property and not					
being used for compacted clay liner or capping layer, soil barrier layer, leachate					
collection layer or final cover drain layer?					
(b) Is the soil borrow source within the proposed or approved limits of filling for a				1	
landfill? If yes, then the landfill is not subject to the requirements of subs. (3) and					
(4)(b).					

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DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	COMPLETE?		COMPLETE? LOC		COMMENTS
	Y	Ν	NA		
(3) INITIAL SITE INSPECTION.					
Does the report include a copy of the department's initial site inspection for each					
proposed borrow source?					
(4) LOCATIONAL INFORMATION.					
(a) Does the submittal describe the following:					
Total acreageOwnership					
Location (¼-¼ section) Present land use					
Transportation routes Any access restrictions					
Travel distance to and from landfill					
(b) Does the submittal include the following:					
Surface water drainage patterns					
Significant hydrologic features (surface waters, springs, drainage divides and wetlands)					
Areas of special natural resource interest (critical habitat or state/local natural areas)					
— Historical/archaeological areas within and adjacent to proposed limits of excavation					
(5) FIELD AND LABORATORY INVESTIGATIONS FOR CLAY BORROW SOURCES AND SOIL BARRIER LAYER SOURCES.					
Does the submittal for soil borrow sources include field and laboratory investigations to define the physical characteristics of any clay borrow source or soil barrier layer source designated to be used for a liner or final cover?					
Has an alternate geotechnical investigation program been approved by the department in writing prior to the field and laboratory investigation? yes no					
If yes, does the report include a copy of and justification for any approved alternative geotechnical investigation program?					
Note: An alternative geotechnical investigation program may be submitted in cases where previous information exists regarding the proposed soil borrow source.					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	OMPLE	TE?	LOCATION	COMMENTS
	Y	N	NA		
(a) Have the required number of test pits or borings been completed on a uniform grid					
pattern across the proposed borrow source(s)?					
10 test pits/borings for the first 5 or less acres					
1 additional test pit/boring for each additional 3 or less acres					
Proposed acreage of proposed borrow source(s)					
Number of test pits/borings required					
Number of test pits/borings made					
Have logs identifying geologic origin, testing results, USCS classification, and					
visual description of each major soil unit encountered also been included?					
(b) Does the report include Atterberg limits and grain size analyses to 0.002 mm					
particle size for 2 samples from each test pit/boring?					
(c) Does the report include the relationship of water content to dry density using either					
the modified or standard Proctor method (curves must be developed with a					
minimum of 5 points) for 1 sample from each major soil unit and no fewer than 3					
samples for uniform clay deposits?					
(d) Does the report include laboratory hydraulic conductivity test results for each					
sample used to develop the Proctor curves?					
(6) STOCKPILING.					
Does the report include discussion of segregating stockpiled soils by USCS soil type,					
soil gradation, Atterberg limits and compaction specifications?					
Note: Stockpiling of soils obtained from clay borrow sources and soil barrier layer sources for landfill liner of final cover construction shall be conducted in an organized manner that minimizes mixing of dissimilar soil					
types. Soils from differing sources may not be commingled unless soil properties are similar.					
(7) DATA PRESENTATION FOR ALL CLAY BORROW SOURCES AND SOIL BARRIER					
LAYER SOURCES. Does the submittal for soil borrow sources for clay and soil barrier					
layers include the following?					
(a) Calculated volume of soil needed and the volume of acceptable soil available					
(b) Property boundaries and test pit/boring locations on a topographic map (scale: 1" =					
500') that extends a minimum of 500 feet beyond the proposed borrow source					
(c) Isopach map showing thickness of acceptable soil					
(d) Description of methods for separating acceptable soil from unacceptable soil					
(e) Proposal for maintaining drainage and sedimentation control					
(f) All data from the testing program					
(8) DATA PRESENTATION FOR OTHER BORROW SOURCES. Does the submittal for					
soil borrow sources other than those used for clay and soil barrier layers include the					
following?					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	С	OMPLE <sup>-</sup>	TE?	LOCATION	COMMENTS
	Y	N	NA		
(a) Property boundaries shown on a topographic map (scale: 1" = 500') that extends a					
minimum of 500 feet beyond the proposed borrow source					
(b) Proposal for drainage and sedimentation control					
(9) STORMWATER MANAGEMENT.					
Does the submittal for a soil borrow source include a stormwater management plan that					
complies with the requirements of s. NR 504.09(1)(a) to (f) and (h) to (j), unless the					
borrow source is subject ot other permits with equivalent authority and requirements,					
such as a stormwater discharge permit or non-metallic mining reclamation permit?					
(10) RECLAMATION OR BORROW SITES.					
(a) Does the report include reclamation plans for borrow sources on the landfill					
property that include the following:					
post-mining land use that is integrated with the existing and proposed drainage					
surface water discharge requirements					
grades and final use of the landfill					
Is the reclamation plan consistent with NR 135.06 to 135.12?					
(b) For soil borrow areas not on landfill property, is the reclamation plan consistent with					
NR 135?					
If required, has a reclamation plan been submitted and a nonmetallic mining					
reclamation permit been received from the appropriate regulatory authority?					
(11) OTHER REQUIRMENTS.					
(a) If the proposed clay borrow source(s) contains less than a five foot, but greater					
than 2 foot uniform clay thickness, does the report contain a construction					
methodology and documentation procedure to ensure the liner meets the soil index					
property requirements of s. NR 504.06(2)(a)?					
(b) Does the report include a description of measures to be taken to comply with					
wetlands protection requirements, runoff and sediment controls and surface water					
discharge permit requirements and to minimize effects on areas of special natural					
resource interest and historical or archaeological areas within and adjacent to the					
proposed limits of excavation? NR 504.08 MINIMUM DESIGN AND CONSTRUCTION CRITERIA FOR LANDFILL GAS					
EXTRACTION SYSTEMS.					
(1) GENERAL.					
If the landfill has the potential to generate landfill gas, is the landfill designed to prevent					
the migration of explosive gases generated by the waste?					
(2) ACTIVE GAS EXTRACTION AND TREATMENT. Does landfill design include an active					
gas recovery system which includes the following features:					
gas recovery system which includes the following reatures.					

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DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	С	OMPLE <sup>-</sup>	TE?	LOCATION	COMMENTS
	Y	Ν	NA		
(a) Vertical gas extraction wells with a maximum 150 foot radius of influence per well with lesser radii of influence on wells near the perimeter Note: The radii of influence of adjacent wells shall overlap. Alternate well spacings may be proposed if site specific data is obtained through performance of pump tests.					
(b) Vertical gas extraction wells extending to 10 feet above the leachate collection system, and installed in 36 inch diameter boreholes Note: An exemption may be proposed to allow for placement of gas extraction wells closer to the leachate collection system.					
(c) The pipe in the boreholes are a minimum 6 inch diameter, Schedule 80 PVC or an approved equal					
(d) The lower 2/3 to 3/4 of the pipe in the borehole is slotted or perforated pipe					
(e) Backfill around slotted pipe is one inch to 1 ½ inch washed stone and the top 10 feet of the borehole is sealed					
(f) Each gas extraction well has a flow control valve and sampling port					
(g) The header system is looped to allow alternate flow paths for the gas					
(h) A minimum slope of 2% for header pipes over the waste					
(i) Polyethylene is used for the header and lateral pipes					
(j) The blower, header and laterals are sized such that a minimum vacuum of 10 inches					
of water column is available at the well furthest from the blower					
(k) A drip leg or equivalent is installed immediately before the blower while preserving suction at the wells under maximum operating vacuum					
(I) All condensate and gas transfer piping outside waste limits are encased in 2 feet of					
clay, double-cased pipe or another approved secondary containment If the piping is not encased is the proposed system designed with multiple drip legs within the landfill where the bulk of the condensate has been removed?					
(m) The system has the ability to collect and treat all condensate, measure volumes and collect samples					
(n) A flare designed to meet the requirements of ch. NR 445					
(3) GAS MONITORING WELLS.					
Does the design provide at least one gas monitoring well on each side of the landfill? Will the wells be constructed per NR 507.11?					
(4) PASSIVE GAS EXTRACTION SYSTEMS. If the landfill accepts only industrial waste					
with the potential to generate gas and which does not use an active gas extraction					
system, is a passive gas venting system proposed which includes the following:					

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DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	COMPLETE?		LOCATION	COMMENTS	
				LOCATION	COMMENTS
A design that allows gas venting from the entire landfill surface?	•		117.		
An analysis to determine vent trench spacing for an effective system and to ensure					
compliance with ch. NR 445 limits for hazardous air contaminants					
A continuous 1 foot layer of granular soil placed under the capping layer with a					
minimum hydraulic conductivity of 1x10 <sup>-3</sup> cm/sec					
Note: This layer may be part of the support layer required in s. NR 504.07(3).					
A series of flexible, perforated pipes connected to a series of outlets					
NR 504.09 STORM WATER MANAGEMENT AND MISCELLANEOUS DESIGN AND					
CONSTRUCTION CRITERIA FOR LANDFILLS.					
(1) STORM WATER MANAGEMENT.					
(a) Are drainage ditches, structures and sedimentation basins proposed to be					
constructed during the initial stages of site construction to control runoff and limit					
entrained sediment from reaching surface water bodies?					
(b) Are the following concepts incorporated in the design of the temporary and					
permanent erosion and sediment control measures:					
Scheduling of grading and construction to minimize soil exposure					
Retention of existing vegetation whenever feasible					
Seeding and mulching of disturbed areas					
Diversion of runoff away from disturbed and active fill areas					
Minimization of runoff velocities					
Designing drainageways and outlets to handle concentrated and increased flows					
Trapping of sediment on-site					
Inspection and maintenance of runoff control structures					
Note: The applicant should submit a copy of the facility's storm water pollution prevention plan (SWPPP) with the plan of operation. The SWPPP may address the items listed above, in addition to storm water					
or surface water monitoring for the facility.					
(c) Are the calculations required in pars. (d), (e) and (f) performed for the period in the					
landfill's development where the surface conditions and contributing acreage would					
result in the greatest runoff volume?					
(d) Are all temporary and permanent storm water control structures designed to					
accommodate peak flow rates from a 25 year, time of concentration storm event?					

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DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	OMPLE <sup>-</sup>	TE?	LOCATION	COMMENTS
	Y	Ν	NA		
(e) Are the storm water management features designed to accommodate the following:					
Temporary and permanent sediment controls are designed to settle the 0.015mm					
particle size for all storms up to and including the 25 year, 6 hour event?					
The sedimentation basin surface area is based upon the average rainfall intensity					
over the 25 year, 6 hour event?					
The principal spillway and outlet protection for the sedimentation basin is designed					
to pass a 25 year, time of concentration storm event?					
The emergency spillway for the sedimentation basin is designed to pass a 100					
year, time of concentration event?					
The sedimentation basin dewatering structure is designed to drain the basin in					
less than 3 days					
A design analysis documenting compliance with the above is included					
(f) Is storm water diverted from active fill and borrow areas to sediment control					
structures?					
(g) Are the containment berms around active fill areas designed to comply with the					
following:					
Control and collect runoff from a 25 year-24 hour storm event					
Containment analysis is based upon the volume of liquid generated from areas					
with exposed waste and areas with daily cover Storm water in contact with active fill areas will be treated as leachate					
(h) Are storm water drainage ditches, structures and sedimentation basins designed to					
discharge along the existing drainage patterns capable of accepting anticipated flow					
volume?					
(i) Has an analysis been performed to determine the amount and velocity of runoff prior					
to landfill development and to document compliance with above requirement?					
(j) Does storm water diversion and construction at the landfill minimize impacts on					
adjacent property?					
(j) Do storm water management features comply with other applicable requirements					
such as those of, but not limited to, ch. NR 103 and ch. 30, Stats., permits?					
Note: The design should also comply with NR 151 storm water requirements.					
(2) MISCELLANEOUS.					
(a) Is a method of controlling any dust or windblown debris included in the design?					
(b) Is access restricted through fencing, natural barriers or other methods?					
(c) Are all access roads, including those in the active area, designed for all weather					
operation?					
(d) Are all access roads used by highway vehicles designed with less than 10% grade?					

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DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	COMPLETE?		MPLETE? LOCATION		COMMENTS
	Y	Ν	NA		
Is the intersection of the landfill access road with an existing highway designed with					
sufficient sight distance and minimize traffic interference?					
(e) intentionally left blank					
(f) Is a minimum 100 foot separation distance between the fill limits and the adjacent					
property line, and a minimum 50 foot distance from landfill excavation or berm and					
the adjacent property line maintained (excluding storm waste diversion structures)?					
(g) Is the landfill designed such that final waste grades are reached as soon as possible					
and open refuse filling area is minimized?					
(h) Are the final slopes designed to be no less than 5% and no greater than 4H:1V,					
except for papermill sludge sites which may have a max.6H:1V final slope for					
papermill and wastewater treatment sludge landfills?					
(i) Are a minimum of 2 leachate headwells proposed per major horizontal phase?					
(j) Is a weight scale supplied (if proposed as a municipal solid waste landfill)?					
(k) Is the landfill designed with properly protected, permanent horizontal and vertical					
control benchmarks, and are the elevations tied to USGS datum and horizontal					
control referenced to property boundary?					
NR 504.095 DESIGN CRITERIA FOR LANDFILLS THAT RECIRCULATE LEACHATE.					
(1) GENERAL. Leachate recirculation systems shall be designed to meet the following					
requirements:					
(a) Is the MSW landfill designed with a composite liner and leachate collection system					
meeting the requirements of NR 504.06?					
If no, leachate recirculation may not be approved.					
(b) Is the leachate recirculation limited to areas of the landfill where the leachate					
collection drainage blanket has a hydraulic conductivity of 1cm/sec or greater? Note: The department may approve leachate recirculation in existing cells with lower permeability					
leachate collection blankets, provided that the operator can demonstrate that the maximum leachate					
head on the liner can be maintained at less than 12 inches and that the recorded leachate head has not					
exceeded 12 inches in the past.					
(c) Is the leachate recirculation limited to areas of the landfill which are connected to					
the active gas extraction systems where the system is cabpable of collecting the					
additional gas expected? Note: Active gas extraction shall commence in those areas no later than the initiation of leachate					
recirculation.					
(d) Is the leachate recirculation distribution system more than 100 lateral feet from the				1	
exterior sideslope final grades?					
(e) Will there be a minimum depth of 20 feet of waste maintained between the landfill					
base and the lowest point of leachate distribution?					

DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	COMPLETE?		ETE? LOCATION		COMMENTS
	Y	Ν	NA		
<ul> <li>(f) Do the operating controls and instructions for leachate recirculation address the following:</li> <li> All weather and seasons of operation</li> </ul>					
Cessation of leachate recirculation upon discovery of seeps, excessive pressures within the waste mass, saturated conditions within the waste mass,					
inadequate shear strength of the waste mass or other conditions indicative of instability?					
(2) SURFACE APPLICATION.					
(a) Is the leachate distribution system designed so no leachate is introduce into the waste in a manner that causes ponding or surface runoff of leachate (No open surface trenches or ponds)?					
(b) Is the leachate distribution system designed to minimize evaporation of the leachate and volatilization of compounds in leachate?					
(3) VERTICAL DISTRIBUTION SYSTEMS.					
(a) Are the wells designed for leachate recirculation and gas extraction?					
(b) Is the well spacing based on the leachate flow rates, pumping characteristics,					
permeability of the waste mass, and ability of the waste to accept liquid without being pressurized?					
(c) Are the leachate distribution wells designed with a surface seal to control odors and landfill gas?					
(d) Are the pumping pressures and pumping intervals for the wells designed to prevent surface emergence of leachate?					
(e) Is the leachate distribution system designed to achieve a uniform distribution of leachate throughout the zone of influence of the wells?					
(f) Are the leachate distribution wells designed to also extract landfill gas?					
(4) HORIZONTAL DISTRIBUTION SYSTEMS.					
(a) Is the leachate distribution piping designed to distribute leachate consistently along its length?					
(b) Is the distribution system designed with a permeable bedding material capable of rapidly dissipating recirculated leachate into the waste mass?					
(c) Is the distribution system designed with bedding material capable of maintaining its structure and characteristics during the expected operation life of the system?					
(d) Is the distribution system designed to operate with specific distribution periods with landfill gas extracted in the interval between those distribution periods and to minimize uncontrolled landfill gas emissions?					
(e) Are the pumping pressures and pumping intervals for the wells designed to prevent surface emergence of leachate?					

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Y         N         NA           VR 504.10 ALTERNATIVE DESIGN CRITERIA FOR LANDFILLS ACCEPTING HIGH VOLUME INDUSTRIAL WASTES.         NA           This section applies on all new landfills designed primarily for high volume industrial waste, wood residue and minor amounts of other waste as approved by the Department. This section applies to all new landfills and to the expansion of existing landfills for which the plan of operation was approved after February 1, 1988.         Image: Comparison of the expansion of existing landfills for which the plan of operation was approved after February 1, 1988.           (a) Has the landfill been designed to either meet the requirements of NR 504.05 to 504.09 or has an alternative design been proposed which meets the following provisions?         Image: Comparison of the first major phase of the landfill within 2 years to the day of the plan of approxing the applicant shall mephy for approval to construct. The department may require additional conditions or approval and require redesign of the landfill in accordance with state-othe-and dispin creditments of s. NR 504.05(1).         Image: Comparison of the manufacturing provision of exceed 10% by weight?           (b) Does municipal waste might and the design requirements of s. NR 504.05(1). House the design capacity meet NR 504.05(3)?         Image: Comparison of the manufacturing provision applies and environment, and the design meets or exceeds the NR 504.04 focation and performance standards?         Image: Comparison of the standards?           (a) Design CARTERIA.         Image: Comparison of the standards?         Image: Comparison of the standards?           (b) Master tharacteristics such as quandareadity bes of information: ls the altemenative desig	DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	COMPLETE?		TE? LOCATION		COMMENTS
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the public health, welfare and the environment, and the design meets or exceeds the NR         504.04 location and performance standards?         If no, then an alternative design may not be approved.         Is the alternative design supported with the following types of information:         (a) Landfill characteristics including regional and specific information on land use, geology, hydrology, hydrogeology and soils         (b) Waste characteristics such as quantity and physical/chemical analysis of waste and leachate         (c) Analysis of any design to control geologic/hydrogeologic conditions         (d) Field demonstration data         (e) Design and performance data for similarly designed and constructed landfills         (f) Accepted scientific or engineering analysis or field studies, field plots, research,						
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leachate       Image: Construct of the second						
(c) Analysis of any design to control geologic/hydrogeologic conditions       Image: Control geologic/hydrogeologic conditions         (d) Field demonstration data       Image: Control geologic/hydrogeologic conditions         (e) Design and performance data for similarly designed and constructed landfills       Image: Control geologic/hydrogeologic conditions         (f) Accepted scientific or engineering analysis or field studies, field plots, research,       Image: Control geologic/hydrogeologic conditions						
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Facility Name:					
DESIGN & CONSTRUCTION CRITERIA REQUIREMENTS	C	COMPLETE?		LOCATION	COMMENTS
	Y	Ν	NA		
NR 504.11 MINIMUM DESIGN AND CONSTRUCTION CRITERIA FOR LANDFILLS					
ACCEPTING RESIDUE PRODUCED BY BURNING MUNICIPAL SOLID WASTE.					
(1) APPLICABILITY. This section applies to landfills designed for residue produced by the					
burning of municipal solid waste as approved by the department. This section applies to					
all new and existing landfills.					
(2) LANDFILL DESIGN CRITERIA FOR RESIDUE PRODUCED BY BURNING MUNICIPAL					
SOLID WASTE.					
(a) If the landfill has proposed to accept municipal solid waste combustor residue that					
tests below the NR 502.13(6)(g) limits, is it a composite lined monofill cell which					
follows the following criteria:					
Does the composite liner consist of a minimum 60 mil geomembrane overlying a					
minimum 4 foot thick compacted clay liner meeting NR 504.06 specifications?					
Is the monocell designed to separately sample and collect leachate from residue					
areas?					
If an alternate design is proposed, such as a double liner, does the design					
provide equivalent protection?					
(b) If the landfill is proposed to accept municipal solid waste combustor residue that					
tests above the limits in NR 502.13(6)(g), does the landfill design include a double					
composite lined monofill cell which meets the following criteria:					
Is there a double composite liner with 2 separate composite liners each with a					
minimum 60 mil geomembrane liner overlying a minimum 4 foot compacted clay					
liner meeting NR 504.06 specifications?					
Is the composite liner separated by a minimum one foot (detection) layer of					
granular material?					
Are separate leachate collection systems designed above and between the					
composite liners and is separate leachate sampling and collection from the					
detection layer possible?					
(C) Note: All landfills which accept municipal solid waste combustor residue shall be approved by the department in accordance with s. NR 514.07 (5) prior to accepting each specific residue waste stream.					
department in accordance with 5. INK 514.07 (5) phot to accepting each specific residue waste stream.				1	

Legal Note: This document is intended solely as guidance, and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. This guidance does not establish or affect legal rights or obligations and is not finally determinative of any of the issues addressed. This guidance does not create any rights enforceable by any party in litigation with the State of Wisconsin or the Department of Natural Resources. Any regulatory decisions made by the Department of Natural Resources in any matter addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.