

Texas Commission on Environmental Quality

CHECKLIST WORKSHEET

IHW CEI LANDFILL

Regulating Entity Name

Date :

Additional I D:

Investigator Name:

Item Number	Description	SECTION A: DESIGN AND OPERATING REQUIREMENTS	
		Answer	Citations
Item Number 1	Description	Has the landfill been granted a waiver or an exemption to the Minimum Technology requirements (MTR)?	
		Answer	Notes
Item Number 2	Description	For landfills meeting the MTR, does the landfill consist of double liner system meeting the following requirements:	
		Answer	Citations
			335.112(a)(13) Notes
Item Number A	Description	Upper liner comprised of a material that prevents migration of waste into the liner? Reference 335.112(a)(13), 265.301(a), 335.173(c) & 264.301(c)(1)(i)(A)	
		Answer	Notes
Item Number B	Description	Lower liner consists of a minimum of 3 feet compacted clay overlain by a geomembrane? Reference 335.112(a)(13), 265.301(a), 335.173(c) & 264.301(c)(1)(i)(B)	
		Answer	Notes
Item Number C	Description	Constructed of appropriate materials to prevent failure? Reference 335.112(a)(13), 265.301(a), 335.173(c) & 264.301(a)(1)(i)	
		Answer	Notes
Item Number D	Description	Placed on a foundation or base capable of providing support? Reference 335.112(a)(13), 265.301(a), 335.173(c) & 264.301(a)(1)(ii)	
		Answer	Notes
Item Number E	Description	Covers all of the area to be in contact with waste or leachate? Reference 335.112(a)(13), 265.301(a), 335.173(c) & 264.301(a)(1)(iii)	
		Answer	Notes
Item Number 3	Description	For landfills meeting MTR, does the leachate collection system meet the following requirements:	
		Answer	Citations
			335.173(c) Notes
Item Number A	Description	Located between the liners and immediately above the lower composite liner?	
		Answer	Notes
Item Number B	Description	Capable of detecting, collecting, and removing leaks of hazardous waste through all areas of the upper liner?	
		Answer	Notes
Item Number C	Description	Located above the seasonal high water table?	
		Answer	Notes
Item Number 4	Description	For landfills meeting MTR, and if the flow rate into the leak detection system exceeded the established Action Leakage Rate, were proper and timely notifications and reports submitted?	
		Answer	Citations
			335.112(a)(13) Notes
Item Number 5	Description	For existing Permitted landfills and MTR exempt landfills, does the liner meet the following requirements:	
		Answer	Citations
			335.171(1)(A) Notes
Item Number A	Description	Prevents migration of wastes out of landfill?	
		Answer	Notes

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Item Number B	Description	Constructed of appropriate materials to prevent failure?		
	Answer		Citations	Notes
Item Number C	Description	Placed upon a foundation or base capable of providing support?		
	Answer		Citations	Notes
Item Number D	Description	Covers all of the area to be in contact with waste or leachate?		
	Answer		Citations	Notes
Item Number 6	Description	For existing permitted landfills and MTR exempt landfills, does the leachate collection and removal system meet the following requirements:		
	Answer		Citations	Notes
Item Number A	Description	Located immediately above the liner?		
	Answer		Citations	Notes
Item Number B	Description	Designed and operated to ensure that leachate depth over liner is less than 30 cm.?		
	Answer		Citations	Notes
Item Number C	Description	Constructed of materials that are chemically resistant to waste and leachate?		
	Answer		Citations	Notes
Item Number D	Description	Capable of preventing collapse due to overburden of waste, cover, and equipment?		
	Answer		Citations	Notes
Item Number E	Description	Capable of functioning without clogging?		
	Answer		Citations	Notes
Item Number 7	Description	For Permitted Units, is the landfill compliant with all other design and operating requirements as authorized by Permit?		
	Answer		Citations	Notes
Item Number 8	Description	Does the owner or operator maintain a run-on control system capable of preventing flow onto the active landfill from at least a 100-year storm?		
	Answer		Citations	Notes
Item Number 9	Description	Does the owner or operator maintain a run-off control system capable of collecting and controlling the water volume of a 24-hour, 100-year storm?		
	Answer		Citations	Notes
Item Number 10	Description	Are the storm water collection and retention systems managed expeditiously after storms to maintain design capacity?		
	Answer		Citations	Notes
Item Number 11	Description	Is the landfill covered or otherwise managed to control wind dispersal of particulate matter?		
	Answer		Citations	Notes
Item Number	Description	SECTION B: MONITORING AND INSPECTION		
	Answer		Citations	Notes
Item Number 1	Description	For permitted landfills, is the landfill inspected weekly and after all storms to detect the following:		
	Answer		Citations	Notes
Item Number A	Description	Deterioration, malfunction, or improper operations of run-on and run-off control systems? Reference 335.152(a)(13)/264.303(b)(1)		
	Answer		Citations	Notes
Item Number B	Description	Proper functioning of the wind dispersal control system, if applicable? Reference 335.152(a)(13)/264.303(b)(2)		
	Answer		Citations	Notes
Item Number C	Description	Presence of leachate in leachate collection/removal systems and proper functioning of the systems, if applicable. Reference 335.152(a)(13)/264.303(b)(3)		

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		Answer	Citations	Notes
Item Number 2	Description	For permitted landfills, does the owner/operator record the amount of liquids removed from the leak detection system sump at least once per week during the active life and closure period?		
		Answer	Citations	Notes
Item Number 3	Description	For interim status landfills, does the owner/operator record the amount of liquids removed from the leak detection system sump at least once per week during the active life and closure period?		
		Answer	Citations	Notes
Item Number	Description	SECTION C: SURVEYING AND RECORD KEEPING (Permitted and Interim Status landfills)		
		Answer	Citations	Notes
Item Number 1	Description	Does the operating record contain the following information:		
		Answer	Citations	Notes
Item Number A	Description	On a map, the exact location and dimensions, including depth of each cell, referenced to permanent bench marks?		
		Answer	Citations	Notes
Item Number B	Description	The contents of each cell and the approximate location of each hazardous waste type within each cell?		
		Answer	Citations	Notes
Item Number	Description	SECTION D: IGNITABLE OR REACTIVE WASTES (Permitted and Interim Status landfills)		
		Answer	Citations	Notes
Item Number 1	Description	Are ignitable or reactive wastes placed in the landfill? (If YES, complete questions 2 through 5 below)		
		Answer	Citations	Notes
Item Number 2	Description	Does the resulting waste, mixture, or dissolution or material no longer meet the definition of ignitable or reactive waste?		
		Answer	Citations	Notes
Item Number 3	Description	AND Has the owner or operator taken precautions to prevent accidental ignition or reaction of waste as per 264.17(b) or 265.17(b)?		
		Answer	Citations	Notes
Item Number 4	Description	Are containerized, ignitable wastes that are not prohibited wastes subject to Part 268 Subpart D treatment standards placed in the landfill?		
		Answer	Citations	Notes
Item Number 5	Description	If yes, does the disposal method provide for:		
		Answer	Citations	Notes
Item Number A	Description	Disposal in non-leaking containers?		
		Answer	Citations	Notes
Item Number B	Description	Handling and placement to avoid heat, sparks, rupture, etc...?		
		Answer	Citations	Notes
Item Number C	Description	Daily coverage with soil or other non-combustible material?		
		Answer	Citations	Notes
Item Number D	Description	No disposal in cells with other wastes which may generate heat sufficient to cause ignition?		
		Answer	Citations	Notes
Item Number	Description	SECTION E: INCOMPATIBLE WASTES (Permitted and Interim Status landfills)		
		Answer	Citations	Notes
Item Number 1	Description	Are incompatible wastes or wastes and materials placed in the landfill? (If YES, complete question 2 below)		
		Answer	Citations	Notes

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Item Number 2	Description	Has the owner or operator taken precautions to prevent accidental ignition or reaction of waste as per 264.17(b) or 265.17(b)?		
	Answer	Citations	335.112(a)(13)	Notes
Item Number	Description	SECTION F: LIQUID WASTE (Permitted and Interim Status landfills)		
	Answer	Citations		Notes
Item Number 1	Description	Have bulk or non-containerized liquid hazardous wastes or wastes containing free liquids been placed in the landfill? Reference 335.125(a)/265.314(a); 335.175(a)/264.314(a)		
	Answer	Citations		Notes
Item Number 2	Description	If YES, was the hazardous waste was treated or stabilized so that the liquids are no longer present?		
	Answer	Citations	335.125(a)	Notes
Item Number 3	Description	If YES, did the owner or operator demonstrate to the TCEQ that: a. No reasonable alternative other than a landfill or unlined surface impoundment exists; AND b. Such placement will not risk contamination of a source of drinking water.		
	Answer	Citations	335.125(f)(1)	Notes
Item Number 4	Description	Does the owner or operator use EPA Method 9095 (Paint Filter Liquids Test) to demonstrate the presence or absence of free liquids?		
	Answer	Citations	335.125(d)	Notes
Item Number 5	Description	Containers holding free liquids are very small, such as an ampule;		
	Answer	Citations	335.125(c)(1)	Notes
Item Number 6	Description	Containers are designed to hold free liquids for use other than storage (such as a battery or capacitor);		
	Answer	Citations	335.125(c)(2)	Notes
Item Number 7	Description	The container holding free liquids is disposed of as a lab pack.		
	Answer	Citations	335.125(c)(3)	Notes
Item Number	Description	SECTION G: DISPOSAL OF SMALL CONTAINERS IN LAB PACKS (Permitted and Interim Status landfills)		
	Answer	Citations		Notes
Item Number 1	Description	Do records indicate that small containers of hazardous waste in over-pack drums (lab packs) are disposed of in the landfill? (If YES, complete question 2)		
	Answer	Citations		Notes
Item Number 2	Description	If YES, do the lab packs meet the following requirements:		
	Answer	Citations		Notes
Item Number A	Description	Are hazardous wastes packaged in non-leaking inside containers?		
	Answer	Citations	335.112(a)(13)	Notes
Item Number B	Description	Are inside containers over-packed in an open head metal shipping container that has less than 110 gallon capacity and meets DOT requirements?		
	Answer	Citations	335.112(a)(13)	Notes
Item Number C	Description	Is the metal outer container full after packing with inside containers and sorbent?		
	Answer	Citations	335.112(a)(13)	Notes
Item Number D	Description	Is proper non-reactive packing material used?		
	Answer	Citations	335.112(a)(13)	Notes
Item Number E	Description	Are only compatible or non-reactive wastes in inside containers (except cyanide-or sulfide-bearing wastes)?		
	Answer	Citations	335.112(a)(13)	Notes
Item Number	Description	SECTION H: DIOXIN WASTES (Permitted facilities which manage F020, F021, F022, F023, F026 and F027 waste in landfills)		

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	Answer	Citations	Notes
Item Number 1	Description	Are dioxin wastes placed in the landfill? (If YES, complete question 2)	
	Answer		Notes
Item Number 2	Description	If YES, does the owner or operator manage the landfill in accordance with a TCEQ approved management plan?	
	Answer	335.152(a)(12)	Notes
Item Number	Description	SECTION I: CLOSURE AND POST-CLOSURE (Facilities that managed hazardous waste in Permitted and Interim Status landfills which are closed or undergoing post-closure)	
	Answer		Notes
Item Number 1	Description	Does this facility include a landfill or cell that has been closed? (If YES, complete questions 2 and 3)	
	Answer		Notes
Item Number 2	Description	Has the owner or operator established an adequate cover which:	
	Answer	335.174(a)(1)	Notes
Item Number A	Description	Minimizes the migration of liquids through the closed landfill? 335.112(a)(13)/ 265.310(a)(1)	
	Answer		Notes
Item Number B	Description	Functions with minimum maintenance? 335.112(a)(13)/265.310(a)(2)	
	Answer		Notes
Item Number C	Description	Promotes drainage and minimizes erosion of final cover? 335.112(a)(13)/265.310(a)(3)	
	Answer		Notes
Item Number D	Description	Accommodates settling and subsidence to maintain cover integrity? 335.112(a)(13)/ 265.310(a)(4)	
	Answer		Notes
Item Number E	Description	Has a permeability less than or equal to that of the liner or natural subsoil? 335.112(a)(13)/ 265.310(a)(5)	
	Answer		Notes
Item Number 3	Description	After final closure, has the owner or operator complied with all post-closure requirements, including the requirements to:	
	Answer		Notes
Item Number A	Description	Maintain the integrity and effectiveness of the final cover, including any necessary repairs?	
	Answer	335.112(a)(13)	Notes
Item Number B	Description	Maintain and monitor the leak detection system for double-lined landfills?	
	Answer	335.112(a)(13)	Notes
Item Number C	Description	Maintain and monitor the ground-water monitoring system in compliance with all applicable regulations and Permit requirements?	
	Answer	335.112(a)(13)	Notes
Item Number D	Description	Prevent run-on or run-off from eroding or damaging the final cover?	
	Answer	335.112(a)(13)	Notes
Item Number E	Description	Maintain surveyed benchmarks?	
	Answer	335.112(a)(13)	Notes
Item Number F	Description	For Permitted units only, continue to operate leachate collection/removal system until no leachate is detected?	
	Answer	264.310(b)(2)	Notes