

Texas Commission on Environmental Quality

CHECKLIST WORKSHEET

MSW CME CHECKLIST A INTRODUCTION

Regulating Entity Name _____

Date: _____

Additional I D: _____

Investigator Name: _____

Item Number	Description	SECTION A - INTRODUCTION	
		Answer	Citations
			Notes
Item Number 1	Description	Provide Facility Description: [description of facility location, surrounding land use, facility age, operations/processes, generated wastes, brief summary of permit]: (may be addressed as Attachment or See Report).	
		Answer	Citations
			Notes
Item Number 2	Description	Chronology of Groundwater Monitoring Activities since the Previous CME (or inception of groundwater activities if no CME conducted): (may be addressed as Attachment or See Report).	
		Answer	Citations
			Notes
Item Number 3	Description	MSW Landfill(s) Requiring Groundwater Monitoring:	
		Answer	Citations
			Notes
Item Number 3A	Description	Provide the location of the monitoring wells on a site diagram(s): (Attachment #)	
		Answer	Citations
			Notes
Item Number 3B	Description	Unit Information - Provide Unit Name, Facility No., Size, Year in Service, Status, construction: (may be addressed as Attachment or See Report)	
		Answer	Citations
			Notes
Item Number	Description	3B SECTION B - TECHNICAL REVIEW	
		Answer	Citations
			Notes
Item Number 4	Description	Regional Geology - Provide brief description of regional geology including stratigraphy, depositional environments, structure, etc.: (may be addressed as Attachment or See Report)	
		Answer	Citations
			Notes
Item Number 4A	Description	Formation(s) - Provide geologic description of formations that include regional aquifers. (One of several possible sources of this information is the Geologic Atlas of Texas, Bureau of Economic Geology.): (may be addressed as Attachment or See Report)	
		Answer	Citations
			Notes
Item Number 4B	Description	Regional Dip and Gradient and Reference:	
		Answer	Citations
			Notes
Item Number 5	Description	Site Geology - Provide brief description of geology of site, including surface geology, topography, faulting, subsidence, etc.: (may be addressed as Attachment or See Report)	
		Answer	Citations
			Notes
Item Number 5A	Description	Site Diagram - Attachment # :	
		Answer	Citations
			Notes
Item Number 5B	Description	Depth of investigation and Geologic Unit: (may be addressed as Attachment or See Report)	
		Answer	Citations
			Notes
Item Number 5C	Description	Cross-sections provided as Attachment # :	
		Answer	Citations
			Notes

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Item Number 6	Description Regional Hydrology - Provide brief discussion of regional aquifers/aquitards: (may be addressed as Attachment or See Report)	Answer	Citations	Notes
Item Number 6A	Description Regional groundwater flow direction and reference (See Report)	Answer	Citations	Notes
Item Number 6B	Description Is the site located on the recharge area of a major aquifer? If yes, identify major aquifer: (See Report)	Answer	Citations	Notes
Item Number 6C	Description Is the site located on the recharge area of a minor aquifer? If yes, identify minor aquifer: (See Report)	Answer	Citations	Notes
Item Number 7	Description Provide brief discussion of site hydrology, include nearby surface water bodies and other recharge/discharge features or wells, summarize the zones that are confined, semi-confined, water table, etc.: (may be addressed as Attachment or See Report)	Answer	Citations	Notes
Item Number 7A	Description Provide description of all saturated zone(s) and aquitard(s) - include Unit name, Depth, Interval encountered (ft-ft), Saturated thickness, Confined/unconfined, Potentiometric rise (if confined), Horizontal hydraulic conductivity (k), Source of k value, Vertical hydraulic conductivity (k), Source of k value: (may be addressed as Attachment or See Report)	Answer	Citations	Notes
Item Number 7B	Description Is the first water-bearing zone identified in Section 7a. above in communication with a deeper zone(s)? If yes, describe communication between affected zones: (See Report)	Answer	Citations	Notes
Item Number 7C	Description Is the aquitard(s) continuous beneath the site?	Answer	Citations	Notes
Item Number 7D	Description Geologic unit(s) monitored during interim status: (Attachment #)	Answer	Citations	Notes
Item Number 7E	Description Geologic unit designated by the facility as the uppermost aquifer:	Answer	Citations	Notes
Item Number	Description SECTION C: SITE GROUNDWATER MOVEMENT	Answer	Citations	Notes
Item Number 8	Description Potentiometric surface map(s) provided as Attachment # :	Answer	Citations	Notes
Item Number 9	Description Calculations of minimum and maximum observed gradients (I) in units of feet/foot:	Answer	Citations	Notes
Item Number 9A	Description Calculation of Flow Rate (v) in feet/day. (k=hydraulic conductivity; ne=effective porosity; i=gradient) $v = ki/ne$ v = _____ Reference:	Answer	Citations	Notes
Item Number 10	Description Monitor Well Construction and Vertical Placement.	Answer	Citations	Notes
Item Number 10A	Description Provide Table of well construction details? (Attachment #)	Answer	Citations	Notes
Item Number 10B	Description Vertical placement of wells satisfactory? If no, explain: (may be addressed as Attachment or See Report)	Answer	Citations	Notes

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	Answer	Citations	Notes
Item Number 10C	Description	Are detailed well installation diagrams, including lithologic logs, available for all monitor wells?	
	Answer		Notes
Item Number	Description	SECTION D - APPLICABILITY (30 TAC 330.401)	
	Answer		Notes
Item Number 11	Description	Was this facility closed in accordance with 30 TAC 330.453, 330.455, or 330.457 prior to the effective date the comprehensive rule revisions in this chapter as adopted in 2006 (2006 Revisions) and owner/operator continues to monitor groundwater using the well location requirements contained in previously issued authorizations, as allowed by 330.1(a)(1)?	
	Answer		Notes
Item Number 12	Description	Has owner/operator complied with the 2006 Revisions to 30 TAC 330 by applying for a permit modification with public notice to revise any inconsistent permit provisions within two years from the effective date of the 2006 Revisions?	
	Answer		Notes
Item Number 13	Description	Is location an arid exempt site? [If Yes, skip to Section E]	330.401(b)
	Answer		Notes
Item Number 14	Description	Is this facility a Type IV landfill that is not required to install groundwater monitoring Systems? [If Yes, skip to Section E]	
	Answer		Notes
Item Number 15	Description	Is this a composting facility that requires a permit? [If Yes, skip to Section E]	
	Answer		Notes
Item Number 16	Description	Is this an MSW landfill facility unit for which groundwater monitoring requirements have been suspended? [If Yes, skip to Section E]	
	Answer		Notes
Item Number 17	Description	Has owner/operator submitted a certification signed by a qualified groundwater scientist that the facility is in compliance with the groundwater monitoring requirements specified in 30 TAC 330.403, 330.405, 330.407 and 330.409 before waste can be placed in the unit?	
	Answer		Notes
Item Number 17A	Description	Date of certification submittal (VERIFY, copy should exist in operating record):	330.401(e)
	Answer		Notes
Item Number 18	Description	Has groundwater monitoring been conducted throughout the active life and any required post-closure care period?	
	Answer		Notes
Item Number 19	Description	Has the owner/operator continued to maintain the groundwater monitoring system (if required) for all units in post closure care?	330.463
	Answer		Notes
Item Number	Description	SECTION E - LOCATION RESTRICTIONS (30 TAC 330.555, 330.557, 330.559, 330.561)	330.463(a)(2)
	Answer		Notes
Item Number 20	Description	Has owner/operator ensured that new MSWLF units and lateral expansions are not located within 200 feet of a fault that had displacement in Holocene time unless satisfactorily demonstrating to the executive director that an alternative setback distance of less than 200 feet will prevent damage to the structural integrity of the landfill unit and will be protective of human health and the environment?	

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	Answer	Citations	330.555(b)(12)	Notes
Item Number 21	Description	Has owner/operator ensured that new MSWLF units and lateral expansions are not located in seismic impact zones, unless satisfactorily demonstrating to the executive director that all containment structures, including liners, leachate collection systems, and surface water control systems, are designed to resist the maximum horizontal acceleration in lithified earth material for the site?		
	Answer	Citations	330.557	Notes
Item Number 22	Description	For new MSWLF units, existing landfill units, and lateral expansions located in an unstable area, has owner/operator demonstrated that engineering measures have been incorporated into the landfill unit's design to ensure that the integrity of the structural components of the landfill unit will not be disrupted?		
	Answer	Citations	330.559(1)	Notes
Item Number 23	Description	Has owner/operator ensured that a new landfill cell or an aerial expansion of an existing landfill cell managing Class 1 industrial solid waste is not located in coastal areas described in 30 TAC 335.584(b)(3) and (4) relating to Location Restrictions?		
	Answer	Citations	330.561	Notes