

**Table 10
Storm Water Monitoring Parameters
Sioux Falls Regional Sanitary Landfill**

Parameters & Sample Container ¹	Preservatives	Methods	Laboratory Reporting Limits ²	Holding Time
Preserved Inorganics - 1-500 mL Plastic				
Ammonia as N	H ₂ SO ₄ , Cool < 4°C	EPA 350.1	0.5 mg/L	28 Days
Non-preserved Inorganics - 1-1 Liter Plastic				
BOD	Cool < 4°C	SM 5210B	3.0 mg/L	48 Hours
pH	Cool < 4°C	Field Reading	0.01 s.u.	Immediately
TSS	Cool < 4°C	USGS 1-3765-85	10.0 mg/L	7 Days
VOCs - 3-40 mL VOA³				
Benzene	HCl, Cool < 4°C	EPA 624	0.50 ug/L	14 Days
Toluene	HCl, Cool < 4°C	EPA 624	1.00 ug/L	14 Days
Ethylbenzene	HCl, Cool < 4°C	EPA 624	1.00 ug/L	14 Days
Xylenes	HCl, Cool < 4°C	EPA 624	3.00 ug/L	14 Days
Oil and Grease - 2-1 Liter Glass⁴				
Oil & Grease (HEM)	H ₂ SO ₄ , Cool < 4°C	EPA 1664A	4.85 mg/L	28 Days
Oil & Grease (HEM-SGT)	H ₂ SO ₄ , Cool < 4°C	EPA 1664A	4.85 mg/L	28 Days

Table adapted from Sioux Falls Regional Sanitary Landfill Comprehensive Monitoring Plan, September and November 2011

mg/L - milligrams per liter

ug/L - micrograms per liter

S.U. - standard units

N/A - not applicable

¹Container listed is typical. Container selected for sample collection to be approved by laboratory performing analysis for the parameter listed.

²Laboratory reporting limits with no dilutions

³Benzene, toluene, ethylbenzene and xylenes (BTEX) monitoring only required if petroleum contamination is expected in the water being discharged.

⁴Oil and grease will be visually monitored daily. If a visible sheen is observed, a sample must be taken and analyzed. An oil and grease sample must be taken during the first day of discharge if petroleum contaminated groundwater is expected.