

Inspection Photos
Location Name: Cosslet #3
Spill ID 474780(AC)/ Rem No.15825



Photo 1 – North wall



Photo 2 – Excavation floor. Free product visible on water.

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COGCC Environmental Inspection
40.08039, -104.95662, 4959.8ft, 69°
08/23/2021 03:18:06 PM

Photo 3 – East wall.



COGCC Environmental Inspection
40.08038, -104.95658, 4959.5ft, 65°
08/23/2021 03:18:24 PM

Photo 4 – Floor. Free product visible on water.

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Photo 5 – Impacted soils stockpiled. Inadequate stormwater controls.



Photo 6 – Liner under stockpiled soil is damaged.

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Photo 7 – Fencing around excavation.



Photo 8 – Vehicle tracking onto residential roads.

Spill Volume Calculations

Table 900-3 Conversion for Sand			
Excavation Length	Excavation Width	Excavation Depth	Excavation Total Cubic Feet
9	31	8	2232
Conversion to cubic yards (total cubic feet/27)			83
High Retention Factor			0.2
Low Porosity			0.35
Conversion Factor: cubic yards/bbl			0.21
Assumed overburden			0.25
Estimated barrels released			7

Table 900-3 Conversion for Silt/Clay			
Excavation Length	Excavation Width	Excavation Depth	Excavation Total Cubic Feet
9	31	8	2232
Conversion to cubic yards (total cubic feet/27)			83
High Retention Factor			0.13
Low Porosity			0.25
Conversion Factor: cubic yards/bbl			0.21
Assumed overburden			0.25
Estimated barrels released			3

Excavation size measured on 8/23/2021 by COGCC staff

Release volume calculation based on current size of excavation indicates that the release was between 3 and 7 bbls.

Operator's Form 19 indicates that release was less than a barrel.

$$\text{Volume of Oil (bbls)} = \frac{(\text{Volume of Soil (cubic yards)} \times \text{retention factor}(\%) \times \text{porosity}(\%))}{\text{conversion factor} \left(\frac{\text{cubic yards}}{\text{bbl}} \right)}$$

TABLE 900-3		
	Oil in Silt	Oil in Sand
Volume of spill (bbl)	1	1
High Retention Factor*	0.2	0.13
Low Porosity**	0.35	0.25
Conversion Factor: cubic yds/bbl	0.21	0.21
Volume of soil (cu yard)	3.0	6.5

*after Alaska Clean Seas Technical Manual, 1999, TACTIC T-7 Spill Volume Estimation

**from Freeze and Cherry, 1979

Calculations from 800 / 900 / 1200 Series - Mission Change Statement of Basis, Specific Statutory Authority, and Purpose (SBP)