

******* LIQUID SPILLS - VOLUME CALCULATIONS *******

Location of spill: Sterling Silver 3 Federal 6 CTB (32.261015,-103.767458)

Date of Spill: 9/27/2019

NCE2002448579

Site Soil Type: Pajarito loamy fine sand, 0%-3% percent slopes, eroded

Estimated Daily Production Loss: BBL Oil BBL Water

Total Area Calculations						
Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	30.0 ft	X	100 ft	X	3.75 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Porosity 0.16 gal per gal

Saturated Soil Volume Calculations:

		H2O	OIL
Area #1	3,000 sq. ft.	938 cu. ft.	cu. ft.
Area #2	0 sq. ft.	cu. ft.	cu. ft.
Area #3	0 sq. ft.	cu. ft.	cu. ft.
Area #4	0 sq. ft.	cu. ft.	cu. ft.
Area #5	0 sq. ft.	cu. ft.	cu. ft.
Area #6	0 sq. ft.	cu. ft.	cu. ft.
Area #7	0 sq. ft.	cu. ft.	cu. ft.
Area #8	0 sq. ft.	cu. ft.	cu. ft.
Total Solid/Liquid Volume:	3,000 sq. ft.	938 cu. ft.	cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	26.7 BBL	0.0 BBL
Liquid Recovered :	4.0 BBL	0.0 BBL
Spill Liquid	30.7 BBL	0.0 BBL
Total Spill Liquid:	<u>30.7</u>	

Recovered Volumes

Estimated oil recovered: **0.0 BBL**
 Estimated water recovered: **4.0 BBL**

Soil Type	Porosity
Clay	0.15
Peat	0.40
Glacial Sediments	0.13
Sandy Clay	0.12
Silt	0.16
Loess	0.25
Fine Sand	0.16
Medium Sand	0.25
Coarse Sand	0.26
Gravelly Sand	0.26
Fine Gravel	0.26
Medium Gravel	0.25
Coarse Gravel	0.18
Sandstone	0.25
Siltstone	0.18
Shale	0.05
Limestone	0.13
Basalt	0.19
Volcanic Tuff	0.20
Standing Liquids	