

Estimate of Greenhouse Gas Emissions associated with Transport of Drill/Completion Cuttings from Williams Production Rosa SWD #2

Disposal Facility	Distance from SWD#2 miles	Volume Cuttings cy	Truck Volume cy	Truck Loads unit	Distance Taveled miles	Fuel Efficiency mpg	Fuel Consumed gallons-diesel	CO2e Emission Factor kg CO2/gallon	CO2e Estimate kg tonnes
Rosa 394A	1.1	1270	10	127	279.4	4	70	10.15	709
Rosa 634B	10	1270	10	127	2540	4	635	10.15	6445
Envirotech	75	1270	10	127	19050	4	4763	10.15	48339
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Notes:

Truck Volumes based on current haul loads handled by Dawn Trucking and SSS Trucking.

Fuel Efficiency based on discussions with Dawn Trucking, SSS Trucking and Adobe Contractors (Typically less than 4 mpg)

Emission Factor from the Climate Registry Table 13.1 US Default CO2 Emission Factors for Transport Fuels (Diesel Fuel No 1 and No 2)

<http://www.theclimateregistry.org/downloads/GRP.pdf>

Conversion: 1 kg = 0.001 tonne