

*Southern California Edison*  
**MESA PTC A.15-03-003**

**DATA REQUEST SET A1503003 ED-SCE-04**

**To:** ENERGY DIVISION  
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**Dated:** 09/16/2015

**Question 07:**

Provide greenhouse gas emissions estimates for work associated with decommissioning the groundwater monitoring wells.

**Response to Question 07:**

Utilizing the information provided by SCE in Data Request #4, the greenhouse gas emissions associated with well decommissioning were estimated using the same methodology as the PEA. The CalEEMod Output files are attached as “Mesa Well Decommissioning – CalEEMod Outputs (9-24-15).pdf”.

It was estimated in the PEA that the total project emissions to be emitted during all construction activities, amortized over 30 years would be approximately 864 metric tons of CO<sub>2</sub>e. It was estimated that well decommissioning would generate approximately 16 metric tons of CO<sub>2</sub>e during construction. Even with the 16 metric tons of CO<sub>2</sub>e during well decommissioning activities, the amortized construction GHG emissions increase nominally (less than 1%) and would remain approximately 864 metric tons of CO<sub>2</sub>e. 864 metric tons of CO<sub>2</sub>e would be below the 10,000 metric tons of CO<sub>2</sub>e SCAQMD Interim Threshold of Significance for GHGs. Impacts would remain less than significant and the PEA determination would remain the same.

<b>Greenhouse Gas Emissions from Well Decommissioning</b>				
<b>Phase</b>	<b>CO<sub>2</sub></b>	<b>CH<sub>4</sub></b>	<b>N<sub>2</sub>O</b>	<b>CO<sub>2</sub>e</b>
<b>Well Decommissioning GHG Emissions</b>	16.2405	0.00040	0.0000	16.3255

<b>Amortized Greenhouse Gas Emissions</b>				
<b>Category</b>	<b>GHG Emissions</b>			
	<b>(Metric Tons per Year)</b>			
	<b>CO<sub>2</sub></b>	<b>CH<sub>4</sub></b>	<b>N<sub>2</sub>O</b>	<b>CO<sub>2</sub>e</b>
<b>GWP</b>	1	21	310	N/A
<b>Annual Construction Emissions</b>				
<b>2016 + Well Decommissioning</b>	<b>8,374.14</b>	<b>2.20</b>	<b>0.00</b>	<b>8,419.83</b>
2017	5,236.10	1.40	0	5,266.30
2018	4,096.70	1.1	0	4,120.40

2019	6,254.80	1.7	0	6,291.40
2020	1,603.40	0.4	0	1,612.40
2021	223.2	0.1	0	224.5
<b>Amortized Construction Emissions (Amortized CO<sub>2</sub>e over 30 Years)</b>	<b>864</b>			