

## **APPENDIX C**

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### Air Quality and Greenhouse Gas Emissions Tables

Threemile Slough Crossing Remediation Project  
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS  
TABLE 1: CONSTRUCTION EMISSIONS SUMMARY

Model Run: October 16, 2025

| Source                                         | Peak Day Emissions, lbs/day |       |                     |                    |                    |                      |                     |                     |      |                 |                  |                 |                 | Project Emissions, tons |        |                    |                    |                    |                     |                     |                     |       |                 |                  |                 |                 | MTCO <sub>2</sub> e |
|------------------------------------------------|-----------------------------|-------|---------------------|--------------------|--------------------|----------------------|---------------------|---------------------|------|-----------------|------------------|-----------------|-----------------|-------------------------|--------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|-------|-----------------|------------------|-----------------|-----------------|---------------------|
|                                                | NO <sub>x</sub>             | ROG   | PM <sub>10</sub> E* | PM <sub>10</sub> D | PM <sub>10</sub> T | PM <sub>2.5</sub> E* | PM <sub>2.5</sub> D | PM <sub>2.5</sub> T | CO   | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub>         | ROG    | PM <sub>10</sub> E | PM <sub>10</sub> D | PM <sub>10</sub> T | PM <sub>2.5</sub> E | PM <sub>2.5</sub> D | PM <sub>2.5</sub> T | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |                     |
| Pre-Decommissioning Debris Survey              | 10.2                        | 0.363 | 0.142               | 0.130              | 0.272              | 0.142                | 0.034               | 0.176               | 1.53 | 0.307           | 0.103            | 0.062           | 1,814           | 0.005                   | 0.0002 | 0.0001             | 0.00013            | 0.0002             | 0.0001              | 0.00003             | 0.0001              | 0.001 | 0.0002          | 0.00008          | 0.00003         | 1.11            | 1.03                |
| Terrestrial Decommissioning                    | 6.74                        | 0.937 | 0.220               | 9.55               | 9.77               | 0.218                | 1.39                | 1.60                | 22.4 | 0.086           | 0.626            | 1.36            | 8,439           | 0.054                   | 0.008  | 0.002              | 0.056              | 0.058              | 0.002               | 0.011               | 0.014               | 0.129 | 0.0005          | 0.003            | 0.006           | 46.6            | 43.3                |
| Marine Decommissioning                         | 32.9                        | 1.69  | 0.799               | 0.00               | 0.80               | 0.799                | 0.000               | 0.80                | 25.5 | 0.272           | 0.065            | 0.573           | 5,453           | 0.488                   | 0.024  | 0.012              | 0.000              | 0.012              | 0.012               | 0.000               | 0.012               | 0.383 | 0.004           | 0.001            | 0.009           | 81.4            | 74.3                |
| Post Decommissioning Debris Survey             | 10.2                        | 0.363 | 0.142               | 0.130              | 0.272              | 0.142                | 0.130               | 0.272               | 1.53 | 0.307           | 0.103            | 0.062           | 1,814           | 0.005                   | 0.0002 | 0.0001             | 0.00013            | 0.0002             | 0.0001              | 0.00003             | 0.0001              | 0.001 | 0.0002          | 0.00008          | 0.00003         | 1.108           | 1.03                |
| Peak Day Emissions, lb/day                     | 32.9                        | 1.69  | 0.799               | 9.55               | 9.77               | 0.80                 | 1.39                | 1.60                | 25.5 | 0.307           | 0.63             | 1.36            | 8,439           | --                      | --     | --                 | --                 | --                 | --                  | --                  | --                  | --    | --              | --               | --              | --              | --                  |
| Project Total Emissions, tons                  | --                          | --    | --                  | --                 | --                 | --                   | --                  | --                  | --   | --              | --               | --              | --              | 0.552                   | 0.033  | 0.014              | 0.056              | 0.070              | 0.014               | 0.012               | 0.025               | 0.514 | 0.005           | 0.004            | 0.015           | 130             | 120                 |
| SMAQMD Significance Thresholds                 | 85                          | --    | --                  | --                 | 80                 | --                   | --                  | 82                  | --   | --              | --               | --              | --              | --                      | --     | --                 | --                 | 14.6               | --                  | --                  | 15                  | --    | --              | --               | --              | --              | --                  |
| Threshold exceeded?                            | No                          |       |                     |                    | No                 |                      |                     | No                  |      |                 |                  |                 |                 | --                      | --     | --                 | --                 | No                 | --                  | --                  | No                  | --    | --              | --               | --              | --              | --                  |
| GHG - MTCO <sub>2</sub> e conversions          |                             |       |                     |                    |                    |                      |                     |                     |      |                 |                  |                 |                 |                         |        |                    |                    |                    |                     |                     |                     |       |                 | 273              | 27.9            | 1               | --                  |
| Approximate Total MTCO <sub>2</sub> e, tons/yr |                             |       |                     |                    |                    |                      |                     |                     |      |                 |                  |                 |                 |                         |        |                    |                    |                    |                     |                     |                     |       |                 |                  |                 | 120             |                     |

**Notes:**  
- Global Warming Potentials (273 for N<sub>2</sub>O, 27.9 for CH<sub>4</sub>, and 1 for CO<sub>2</sub>, Table 7.SM.6, Intergovernmental Panel on Climate Change (IPCC). 2021. Sixth Assessment Report  
SMAQMD - Sacramento Metropolitan Air Quality Management District  
MTCO<sub>2</sub>e - Metric Tons of Carbon Dioxide Equivalent  
NO<sub>x</sub> - Oxides of Nitrogen  
ROG - Reactive Organic Gases  
PM<sub>2.5</sub>- Particulate Matter 2.5 Microns or Less. An **E** suffix - indicates exhaust, **D** suffix indicates dust and **T** suffix indicates total emissions.  
PM<sub>10</sub> - Particulate Matter 10 Microns or Less. An **E** suffix - indicates exhaust, **D** suffix indicates dust and **T** suffix indicates total emissions.  
DPM - Diesel Particulate Matter  
CO - Carbon Monoxide  
SO<sub>2</sub> - Sulfur Dioxide  
N<sub>2</sub>O - Nitrous Oxide  
CH<sub>4</sub> - Methane  
CO<sub>2</sub> - Carbon Dioxide

Threemile Slough Crossing Remediation Project  
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS  
TABLE 2: Pre-Decommissioning Debris Survey

On-Site Sources

|                       |     |             |        |               |                    | Emission Factors (g/bhp-hr) |       |                  |                   |       |                 |                  |                 |                 | Emissions (lb/day) |       |                  |                   |       |                 |                  |                 |                 |                 | Total Emissions (tons) |                  |                   |       |                 |                  |                 |                 |      |  |
|-----------------------|-----|-------------|--------|---------------|--------------------|-----------------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|--------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-----------------|------------------------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|------|--|
| Source                | BHP | Load Factor | Number | Hours/<br>Day | Duration<br>(days) | NO <sub>x</sub>             | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub>    | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub> | ROG                    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |      |  |
| Air Compressor-1      | 50  | 48          | 1      | 0             | 0                  | 2.740                       | 0.120 | 0.008            | 0.008             | 3.700 | 0.007           | 0.004            | 0.059           | 568             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Derrick Barge Crane   | 330 | 29          | 1      | 0             | 0                  | 3.790                       | 0.120 | 0.088            | 0.088             | 2.600 | 0.005           | 0.004            | 0.153           | 472             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Diving Air Compressor | 50  | 48          | 1      | 0             | 0                  | 4.750                       | 0.230 | 0.192            | 0.192             | 3.700 | 0.007           | 0.004            | 0.059           | 568             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Generator-1           | 100 | 74          | 1      | 0             | 0                  | 2.740                       | 0.120 | 0.008            | 0.008             | 3.700 | 0.006           | 0.004            | 0.021           | 568             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Hydroexcavator        | 300 | 38          | 1      | 0             | 0                  | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.154           | 476             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Light Plant-1         | 15  | 74          | 1      | 0             | 0                  | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Light Plant-2         | 15  | 74          | 1      | 0             | 0                  | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Light Plant-3         | 15  | 74          | 1      | 0             | 0                  | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Light Plant-4         | 15  | 74          | 1      | 0             | 0                  | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Support Tug Generator | 75  | 43          | 1      | 0             | 0                  | 3.751                       | 0.149 | 0.116            | 0.116             | 0.820 | 0.119           | 0.016            | 0.025           | 550             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Support Tug Mains     | 500 | 50          | 1      | 0             | 0                  | 3.728                       | 0.134 | 0.051            | 0.051             | 0.567 | 0.113           | 0.015            | 0.023           | 527             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Survey Vessel         | 270 | 45          | 1      | 10            | 1                  | 3.728                       | 0.134 | 0.051            | 0.051             | 0.567 | 0.113           | 0.015            | 0.023           | 527             | 9.987              | 0.360 | 0.138            | 0.138             | 1.518 | 0.304           | 0.040            | 0.0619          | 1,412           | 0.005           | 0.000                  | 0.000            | 0.000             | 0.001 | 0.000           | 0.000            | 0.000           | 0.000           | 0.71 |  |
| SEP Generator         | 400 | 74          | 1      | 0             | 0                  | 2.320                       | 0.120 | 0.088            | 0.088             | 2.600 | 0.005           | 0.004            | 0.014           | 568             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Water Pump-1          | 20  | 74          | 1      | 0             | 0                  | 4.407                       | 0.709 | 0.177            | 0.177             | 2.376 | 0.007           | 0.004            | 0.064           | 568             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Welding Machine-1     | 20  | 45          | 1      | 0             | 0                  | 4.407                       | 0.709 | 0.177            | 0.177             | 2.376 | 0.007           | 0.004            | 0.064           | 568             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Wheeled Loader-1      | 240 | 36          | 1      | 0             | 0                  | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.152           | 470             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Wheeled Loader-2      | 240 | 36          | 1      | 0             | 0                  | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.152           | 470             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000          | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Total                 |     |             |        |               |                    |                             |       |                  |                   |       |                 |                  |                 | 9.987           | 0.360              | 0.138 | 0.138            | 1.518             | 0.304 | 0.040           | 0.062            | 1412            | 0.005           | 0.000           | 0.000                  | 0.000            | 0.001             | 0.000 | 0.000           | 0.71             |                 |                 |      |  |

On-Road Sources

|                                    |                      |                         |                    |                              |                 | Emission Factors (g/mile) |        |                  |                   |       |                 |                  |                 |                 | Peak Day Emissions (lb/day) |       |                  |                   |       |                 |                  |                 |                 |                 | Total Emissions (tons) |                  |                   |       |                 |                  |                 |                 |       |  |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------------|-----------------|---------------------------|--------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-----------------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-----------------|------------------------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-------|--|
| Source                             | Peak Round Trips/Day | Average Round Trips/Day | Number of Vehicles | Length of Round Trip (miles) | Duration (days) | NO <sub>x</sub>           | ROG    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub>             | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub> | ROG                    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |       |  |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 120                          | 2               | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.054 | 0.0144          | 0.2394           | 0.001           | 1520            | 0.257                       | 0.003 | 0.004            | 0.004             | 0.014 | 0.004           | 0.063            | 0.000           | 402             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.402 |  |
| Total                              |                      |                         |                    |                              |                 |                           |        |                  |                   |       |                 |                  |                 |                 | 0.257                       | 0.003 | 0.004            | 0.004             | 0.014 | 0.004           | 0.063            | 0.000           | 402             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.402 |  |

On-Road Sources

|                                    |                            |                               |                       |                                          |                    | Emission Factors (g/mile) |                        | Peak Day Emissions (lb/day) |                        | Total Emissions (tons) |                        |
|------------------------------------|----------------------------|-------------------------------|-----------------------|------------------------------------------|--------------------|---------------------------|------------------------|-----------------------------|------------------------|------------------------|------------------------|
| Source                             | Peak<br>Round<br>Trips/Day | Average<br>Round<br>Trips/Day | Number of<br>Vehicles | Length<br>of<br>Round<br>Trip<br>(miles) | Duration<br>(days) | PM <sub>10</sub> Dust     | PM <sub>2.5</sub> Dust | PM <sub>10</sub> Dust       | PM <sub>2.5</sub> Dust | PM <sub>10</sub> Dust  | PM <sub>2.5</sub> Dust |
| Heavy Duty Trucks - T7TC (offsite) | 1                          | 1                             | 1                     | 120                                      | 2                  | 0.4920                    | 0.1299                 | 0.130162                    | 0.034375113            | 0.000130               | 0.000034               |
| Total                              |                            |                               |                       |                                          |                    | 0.130162                  | 0.034375               | 0.000130                    | 0.000034               |                        |                        |

Notes:  
Hours per day and durations provided by client.  
Round trips for supplies deliveries and equipment provided by client.

Threemile Slough Crossing Remediation Project  
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS  
TABLE 3: Terrestrial Decommissioning

On-Site Sources

| Source                | BHP | Load Factor | Number | Hours/<br>Day | Duration<br>(days) | Emission Factors (g/bhp-hr) |       |                  |                   |       |                 |                  |                 | Emissions (lb/day) |                 |       |                  |                   |       |                 |                  | Total Emissions (tons) |                 |                 |       |                  |                   |       |                 |                  |                 |                 |      |  |
|-----------------------|-----|-------------|--------|---------------|--------------------|-----------------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|--------------------|-----------------|-------|------------------|-------------------|-------|-----------------|------------------|------------------------|-----------------|-----------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|------|--|
|                       |     |             |        |               |                    | NO <sub>x</sub>             | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub>    | NO <sub>x</sub> | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub>        | CO <sub>2</sub> | NO <sub>x</sub> | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |      |  |
| Air Compressor-1      | 50  | 48          | 1      | 0             | 0                  | 2.740                       | 0.120 | 0.008            | 0.008             | 3.700 | 0.007           | 0.004            | 0.059           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.00            | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.00            |      |  |
| Derrick Barge Crane   | 330 | 29          | 1      | 0             | 0                  | 3.790                       | 0.120 | 0.088            | 0.088             | 2.600 | 0.005           | 0.004            | 0.153           | 472                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.00            | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Diving Air Compressor | 50  | 48          | 1      | 0             | 0                  | 4.750                       | 0.230 | 0.192            | 0.192             | 3.700 | 0.007           | 0.004            | 0.059           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.00            | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |  |
| Excavator-1           | 310 | 38          | 1      | 8             | 10                 | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.152           | 470                | 0.540           | 0.125 | 0.017            | 0.017             | 4.571 | 0.010           | 0.009            | 0.3158                 | 976             | 0.003           | 0.001 | 0.000            | 0.000             | 0.023 | 0.000           | 0.000            | 0.002           | 4.88            |      |  |
| Excavator-2           | 310 | 38          | 1      | 8             | 10                 | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.152           | 470                | 0.540           | 0.125 | 0.017            | 0.017             | 4.571 | 0.010           | 0.009            | 0.3158                 | 976             | 0.003           | 0.001 | 0.000            | 0.000             | 0.023 | 0.000           | 0.000            | 0.002           | 4.88            |      |  |
| Generator-1           | 100 | 74          | 1      | 0             | 0                  | 2.740                       | 0.120 | 0.008            | 0.008             | 3.700 | 0.006           | 0.004            | 0.021           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.00                   | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.00            |      |  |
| Hydroexcavator        | 300 | 38          | 1      | 6             | 2                  | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.154           | 476                | 0.392           | 0.090 | 0.012            | 0.012             | 3.317 | 0.008           | 0.006            | 0.2322                 | 718             | 0.000           | 0.000 | 0.000            | 0.000             | 0.003 | 0.000           | 0.000            | 0.000           | 0.72            |      |  |
| Light Plant-1         | 15  | 74          | 1      | 6             | 30                 | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568                | 0.627           | 0.089 | 0.026            | 0.026             | 0.513 | 0.001           | 0.001            | 0.0079                 | 83.4            | 0.009           | 0.001 | 0.000            | 0.000             | 0.008 | 0.000           | 0.000            | 0.000           | 1.25            |      |  |
| Light Plant-2         | 15  | 74          | 1      | 6             | 30                 | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568                | 0.627           | 0.089 | 0.026            | 0.026             | 0.513 | 0.001           | 0.001            | 0.0079                 | 83.4            | 0.009           | 0.001 | 0.000            | 0.000             | 0.008 | 0.000           | 0.000            | 0.000           | 1.25            |      |  |
| Light Plant-3         | 15  | 74          | 1      | 6             | 30                 | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568                | 0.627           | 0.089 | 0.026            | 0.026             | 0.513 | 0.001           | 0.001            | 0.0079                 | 83.4            | 0.009           | 0.001 | 0.000            | 0.000             | 0.008 | 0.000           | 0.000            | 0.000           | 1.25            |      |  |
| Light Plant-4         | 15  | 74          | 1      | 6             | 30                 | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568                | 0.627           | 0.089 | 0.026            | 0.026             | 0.513 | 0.001           | 0.001            | 0.0079                 | 83.4            | 0.009           | 0.001 | 0.000            | 0.000             | 0.008 | 0.000           | 0.000            | 0.000           | 1.25            |      |  |
| Support Tug Generator | 75  | 43          | 1      | 0             | 0                  | 3.751                       | 0.149 | 0.116            | 0.116             | 0.820 | 0.119           | 0.016            | 0.025           | 550                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.00                   | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.00            |      |  |
| Support Tug Mains     | 500 | 50          | 1      | 0             | 0                  | 3.728                       | 0.134 | 0.051            | 0.051             | 0.567 | 0.113           | 0.015            | 0.023           | 527                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.00                   | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.00            |      |  |
| Survey Vessel         | 270 | 45          | 1      | 0             | 0                  | 3.728                       | 0.134 | 0.051            | 0.051             | 0.567 | 0.113           | 0.015            | 0.023           | 527                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.00                   | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.00            |      |  |
| SEP Generator         | 400 | 74          | 1      | 0             | 0                  | 2.320                       | 0.120 | 0.088            | 0.088             | 2.600 | 0.005           | 0.004            | 0.014           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.00                   | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.00            |      |  |
| Water Pump-1          | 20  | 74          | 1      | 0             | 0                  | 4.407                       | 0.709 | 0.177            | 0.177             | 2.376 | 0.007           | 0.004            | 0.064           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.00                   | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.00            |      |  |
| Welding Machine-1     | 20  | 45          | 1      | 0             | 0                  | 4.407                       | 0.709 | 0.177            | 0.177             | 2.376 | 0.007           | 0.004            | 0.064           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.00                   | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.00            |      |  |
| Wheeled Loader-1      | 240 | 36          | 1      | 8             | 10                 | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.152           | 470                | 0.396           | 0.091 | 0.012            | 0.012             | 3.352 | 0.008           | 0.006            | 0.2316                 | 716             | 0.002           | 0.000 | 0.000            | 0.000             | 0.017 | 0.000           | 0.000            | 0.001           | 3.58            |      |  |
| Wheeled Loader-2      | 240 | 36          | 1      | 8             | 10                 | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.152           | 470                | 0.396           | 0.091 | 0.012            | 0.012             | 3.352 | 0.008           | 0.006            | 0.2316                 | 716             | 0.002           | 0.000 | 0.000            | 0.000             | 0.017 | 0.000           | 0.000            | 0.001           | 3.58            |      |  |
|                       |     |             |        |               |                    | Total                       | 4.77  | 0.879            | 0.174             | 0.174 | 21.2            | 0.048            | 0.039           | 1.359              | 4,436           | 0.047 | 0.008            | 0.002             | 0.002 | 0.113           | 0.000            | 0.000                  | 0.006           | 22.64           |       |                  |                   |       |                 |                  |                 |                 |      |  |

On-Road Sources

| Source                             | Peak Round Trips/Day | Average Round Trips/Day | Number of Vehicles | Length of Round Trip (miles) | Duration (days) | Emission Factors (g/mile) |        |                  |                   |       |                 |                  |                 |                 | Peak Day Emissions (lb/day) |       |                  |                   |       |                 |                  |                 |                 |                 | Total Emissions (tons) |                  |                   |       |                 |                  |                 |                 |  |  |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------------|-----------------|---------------------------|--------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-----------------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-----------------|------------------------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|--|--|
|                                    |                      |                         |                    |                              |                 | NO <sub>x</sub>           | ROG    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub>             | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub> | ROG                    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |  |  |
| Passenger Vehicle - LDA (offsite)  | 1                    | 1                       | 3                  | 50                           | 30              | 0.0412                    | 0.0075 | 0.0010           | 0.0009            | 0.709 | 0.0027          | 0.0045           | 0.002           | 278             | 0.014                       | 0.002 | 0.000            | 0.000             | 0.234 | 0.001           | 0.001            | 0.001           | 91.9            | 0.000           | 0.000                  | 0.000            | 0.000             | 0.004 | 0.000           | 0.000            | 0.000           | 1.379           |  |  |
| Light-Duty Truck - LDT2 (offsite)  | 1                    | 1                       | 9                  | 50                           | 30              | 0.0453                    | 0.0084 | 0.0043           | 0.0041            | 0.085 | 0.0026          | 0.0436           | 0.000           | 277             | 0.045                       | 0.008 | 0.004            | 0.004             | 0.084 | 0.003           | 0.043            | 0.000           | 275             | 0.001           | 0.000                  | 0.000            | 0.000             | 0.001 | 0.000           | 0.001            | 0.000           | 4.122           |  |  |
| Passenger Vehicle - LDA (offsite)  | 1                    | 1                       | 5                  | 50                           | 30              | 0.0412                    | 0.0075 | 0.0010           | 0.0009            | 0.709 | 0.0027          | 0.0045           | 0.002           | 278             | 0.023                       | 0.004 | 0.001            | 0.001             | 0.391 | 0.002           | 0.002            | 0.001           | 153.2           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.006 | 0.000           | 0.000            | 0.000           | 2.298           |  |  |
| Light-Duty Truck - LDT2 (offsite)  | 1                    | 1                       | 15                 | 50                           | 30              | 0.0453                    | 0.0084 | 0.0043           | 0.0041            | 0.085 | 0.0026          | 0.0436           | 0.000           | 277             | 0.075                       | 0.014 | 0.007            | 0.007             | 0.141 | 0.004           | 0.072            | 0.001           | 458             | 0.001           | 0.000                  | 0.000            | 0.000             | 0.002 | 0.000           | 0.001            | 0.000           | 6.869           |  |  |
| Passenger Vehicle - LDA (offsite)  | 1                    | 1                       | 2                  | 50                           | 30              | 0.0412                    | 0.0075 | 0.0010           | 0.0009            | 0.709 | 0.0027          | 0.0045           | 0.002           | 278             | 0.009                       | 0.002 | 0.000            | 0.000             | 0.156 | 0.001           | 0.001            | 0.000           | 61.3            | 0.000           | 0.000                  | 0.000            | 0.000             | 0.002 | 0.000           | 0.000            | 0.000           | 0.919           |  |  |
| Light-Duty Truck - LDT2 (offsite)  | 1                    | 1                       | 6                  | 50                           | 30              | 0.0453                    | 0.0084 | 0.0043           | 0.0041            | 0.085 | 0.0026          | 0.0436           | 0.000           | 277             | 0.030                       | 0.006 | 0.003            | 0.003             | 0.056 | 0.002           | 0.029            | 0.000           | 183             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.001 | 0.000           | 0.000            | 0.000           | 2.748           |  |  |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 20                 | 20                           | 5               | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.054 | 0.0144          | 0.2394           | 0.001           | 1520            | 0.856                       | 0.010 | 0.015            | 0.014             | 0.048 | 0.013           | 0.211            | 0.000           | 1,340           | 0.002           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.001            | 0.000           | 3.350           |  |  |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 70                           | 4               | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.054 | 0.0144          | 0.2394           | 0.001           | 1520            | 0.150                       | 0.002 | 0.003            | 0.002             | 0.008 | 0.002           | 0.037            | 0.000           | 235             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.469           |  |  |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 4               | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.054 | 0.0144          | 0.2394           | 0.001           | 1520            | 0.107                       | 0.001 | 0.002            | 0.002             | 0.006 | 0.002           | 0.026            | 0.000           | 168             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.335           |  |  |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 4               | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.054 | 0.0144          | 0.2394           | 0.001           | 1520            | 0.107                       | 0.001 | 0.002            | 0.002             | 0.006 | 0.002           | 0.026            | 0.000           | 168             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.335           |  |  |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 1               | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.054 | 0.0144          | 0.2394           | 0.001           | 1520            | 0.107                       | 0.001 | 0.002            | 0.002             | 0.006 | 0.002           | 0.026            | 0.000           | 168             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.084           |  |  |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 60                           | 3               | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.054 | 0.0144          | 0.2394           | 0.001           | 1520            | 0.128                       | 0.002 | 0.002            | 0.002             | 0.007 | 0.002           | 0.032            | 0.000           | 201             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.302           |  |  |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 4               | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.054 | 0.0144          | 0.2394           | 0.001           | 1520            | 0.107                       | 0.001 | 0.002            | 0.002             | 0.006 | 0.002           | 0.026            | 0.000           | 168             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.335           |  |  |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 4               | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.054 | 0.0144          | 0.2394           | 0.001           | 1520            | 0.107                       | 0.001 | 0.002            | 0.002             | 0.006 | 0.002           | 0.026            | 0.000           | 168             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.335           |  |  |
|                                    |                      |                         |                    |                              |                 | Total                     | 1.97   | 0.057            | 0.046             | 0.044 | 1.162           | 0.038            | 0.587           | 0.004           | 4.003                       | 0.007 | 0.001            | 0.000             | 0.016 | 0.000           | 0.003            | 0.000           | 23.96           |                 |                        |                  |                   |       |                 |                  |                 |                 |  |  |

On-Road Sources

| Source                             | Peak Round Trips/Day | Average Round Trips/Day | Number of Vehicles | Length of Round Trip (miles) | Duration (days) | Emission Factors (g/mile) |                        | Peak Day Emissions (lb/day) |                        | Total Emissions (tons) |                        |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------------|-----------------|---------------------------|------------------------|-----------------------------|------------------------|------------------------|------------------------|
|                                    |                      |                         |                    |                              |                 | PM <sub>10</sub> Dust     | PM <sub>2.5</sub> Dust | PM <sub>10</sub> Dust       | PM <sub>2.5</sub> Dust | PM <sub>10</sub> Dust  | PM <sub>2.5</sub> Dust |
| Passenger Vehicle - LDA (offsite)  | 1                    | 1                       | 3                  | 50                           | 30              | 0.4263                    | 0.1069                 | 0.140979                    | 0.035365582            | 0.002115               | 0.000530               |
| Light-Duty Truck - LDT2 (offsite)  | 1                    | 1                       | 9                  | 50                           | 30              | 0.4272                    | 0.1073                 | 0.423850                    | 0.106416339            | 0.006358               | 0.001596               |
| Passenger Vehicle - LDA (offsite)  | 1                    | 1                       | 5                  | 50                           | 30              | 0.4263                    | 0.1069                 | 0.234965                    | 0.058942636            | 0.003524               | 0.000884               |
| Light-Duty Truck - LDT2 (offsite)  | 1                    | 1                       | 15                 | 50                           | 30              | 0.4272                    | 0.1073                 | 0.706416                    | 0.177360565            | 0.010596               | 0.002660               |
| Passenger Vehicle - LDA (offsite)  | 1                    | 1                       | 2                  | 50                           | 30              | 0.4263                    | 0.1069                 | 0.093986                    | 0.023577054            | 0.001410               | 0.000354               |
| Light-Duty Truck - LDT2 (offsite)  | 1                    | 1                       | 6                  | 50                           | 30              | 0.4272                    | 0.1073                 | 0.282567                    | 0.070944226            | 0.004238               | 0.001064               |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 20                 | 20                           | 5               | 0.4920                    | 0.1299                 | 0.433874                    | 0.114583709            | 0.001085               | 0.000286               |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 70                           | 4               | 0.4920                    | 0.1299                 | 0.075928                    | 0.020052149            | 0.000152               | 0.000040               |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 4               | 0.4920                    | 0.1299                 | 0.054234                    | 0.014322964            | 0.000108               | 0.000029               |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 4               | 0.4920                    | 0.1299                 | 0.054234                    | 0.014322964            | 0.000108               | 0.000029               |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 1               | 0.4920                    | 0.1299                 | 0.054234                    | 0.014322964            | 0.000027               | 0.000007               |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 1               | 0.4920                    | 0.1299                 | 0.054234                    | 0.014322964            | 0.000027               | 0.000007               |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 60                           | 3               | 0.4920                    | 0.1299                 | 0.065081                    | 0.017187556            | 0.000098               | 0.000026               |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 4               | 0.4920                    | 0.1299                 | 0.054234                    | 0.014322964            | 0.000108               | 0.000029               |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 50                           | 4               | 0.4920                    | 0.1299                 | 0.054234                    | 0.014322964            | 0.000108               | 0.000029               |
| Total                              |                      |                         |                    |                              |                 |                           |                        | 2.783050                    | 0.710368               | 0.030064               | 0.007570               |

**Notes:**  
Hours per day and durations provided by client.  
Round trips for supplies deliveries, equipment and waste disposal provided by client.

Threemile Slough Crossing Remediation Project  
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS  
TABLE 4: Marine Decommissioning

On-Site Sources

|                       |     |             |        |               |                    | Emission Factors (g/bhp-hr) |       |                  |                   |       |                 |                  |                 |                 | Emissions (lb/day) |       |                  |                   |       |                 |                  |                 |                 |                 | Total Emissions (tons) |                  |                   |       |                 |                  |                 |                 |  |  |
|-----------------------|-----|-------------|--------|---------------|--------------------|-----------------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|--------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-----------------|------------------------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|--|--|
| Source                | BHP | Load Factor | Number | Hours/<br>Day | Duration<br>(days) | NO <sub>x</sub>             | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub>    | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub> | ROG                    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |  |  |
| Air Compressor-1      | 50  | 48          | 1      | 2             | 60                 | 2.740                       | 0.120 | 0.008            | 0.008             | 3.700 | 0.007           | 0.004            | 0.059           | 568             | 0.290              | 0.013 | 0.001            | 0.001             | 0.392 | 0.001           | 0.000            | 0.0062          | 60.1            | 0.009           | 0.000                  | 0.000            | 0.000             | 0.012 | 0.000           | 0.000            | 0.000           | 1.80            |  |  |
| Derrick Barge Crane   | 330 | 29          | 1      | 12            | 30                 | 3.790                       | 0.120 | 0.088            | 0.088             | 2.600 | 0.005           | 0.004            | 0.153           | 472             | 9.595              | 0.304 | 0.223            | 0.223             | 6.583 | 0.013           | 0.011            | 0.3874          | 1,195           | 0.144           | 0.005                  | 0.003            | 0.003             | 0.099 | 0.000           | 0.000            | 0.006           | 17.92           |  |  |
| Diving Air Compressor | 50  | 48          | 1      | 3             | 30                 | 4.750                       | 0.230 | 0.192            | 0.192             | 3.700 | 0.007           | 0.004            | 0.059           | 568             | 0.754              | 0.037 | 0.030            | 0.030             | 0.587 | 0.001           | 0.001            | 0.0094          | 90.2            | 0.011           | 0.001                  | 0.000            | 0.000             | 0.009 | 0.000           | 0.000            | 0.000           | 1.35            |  |  |
| Generator-1           | 100 | 74          | 1      | 12            | 30                 | 2.740                       | 0.120 | 0.008            | 0.008             | 3.700 | 0.006           | 0.004            | 0.021           | 568             | 5.364              | 0.235 | 0.016            | 0.016             | 7.243 | 0.012           | 0.008            | 0.0411          | 1,113           | 0.080           | 0.004                  | 0.000            | 0.000             | 0.109 | 0.000           | 0.000            | 0.001           | 16.69           |  |  |
| Hydroexcavator        | 300 | 38          | 1      | 0             | 0                  | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.154           | 476             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.0             | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.00            |                 |  |  |
| Light Plant-1         | 15  | 74          | 1      | 6             | 30                 | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568             | 0.627              | 0.089 | 0.026            | 0.026             | 0.513 | 0.001           | 0.001            | 0.0079          | 83.4            | 0.009           | 0.001                  | 0.000            | 0.000             | 0.008 | 0.000           | 0.000            | 0.000           | 1.25            |  |  |
| Light Plant-2         | 15  | 74          | 1      | 6             | 30                 | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568             | 0.627              | 0.089 | 0.026            | 0.026             | 0.513 | 0.001           | 0.001            | 0.0079          | 83.4            | 0.009           | 0.001                  | 0.000            | 0.000             | 0.008 | 0.000           | 0.000            | 0.000           | 1.25            |  |  |
| Light Plant-3         | 15  | 74          | 1      | 6             | 30                 | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568             | 0.627              | 0.089 | 0.026            | 0.026             | 0.513 | 0.001           | 0.001            | 0.0079          | 83.4            | 0.009           | 0.001                  | 0.000            | 0.000             | 0.008 | 0.000           | 0.000            | 0.000           | 1.25            |  |  |
| Light Plant-4         | 15  | 74          | 1      | 6             | 30                 | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568             | 0.627              | 0.089 | 0.026            | 0.026             | 0.513 | 0.001           | 0.001            | 0.0079          | 83.4            | 0.009           | 0.001                  | 0.000            | 0.000             | 0.008 | 0.000           | 0.000            | 0.000           | 1.25            |  |  |
| Support Tug Generator | 75  | 43          | 1      | 12            | 30                 | 3.751                       | 0.149 | 0.116            | 0.116             | 0.820 | 0.119           | 0.016            | 0.025           | 550             | 3.200              | 0.127 | 0.099            | 0.099             | 0.700 | 0.101           | 0.014            | 0.0210          | 470             | 0.048           | 0.002                  | 0.001            | 0.001             | 0.010 | 0.002           | 0.000            | 0.000           | 7.04            |  |  |
| Support Tug Mains     | 500 | 50          | 1      | 2             | 30                 | 3.728                       | 0.134 | 0.051            | 0.051             | 0.567 | 0.113           | 0.015            | 0.023           | 527             | 4.110              | 0.148 | 0.057            | 0.057             | 0.625 | 0.125           | 0.016            | 0.0255          | 581             | 0.062           | 0.002                  | 0.001            | 0.001             | 0.009 | 0.002           | 0.000            | 0.000           | 8.72            |  |  |
| Survey Vessel         | 270 | 45          | 1      | 0             | 0                  | 3.728                       | 0.134 | 0.051            | 0.051             | 0.567 | 0.113           | 0.015            | 0.023           | 527             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.0             | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.00            |                 |  |  |
| SEP Generator         | 400 | 74          | 1      | 4             | 30                 | 2.320                       | 0.120 | 0.088            | 0.088             | 2.600 | 0.005           | 0.004            | 0.014           | 568             | 6.056              | 0.313 | 0.230            | 0.230             | 6.787 | 0.013           | 0.011            | 0.0365          | 1,483           | 0.091           | 0.005                  | 0.003            | 0.003             | 0.102 | 0.000           | 0.000            | 0.001           | 22.25           |  |  |
| Water Pump-1          | 20  | 74          | 1      | 2             | 30                 | 4.407                       | 0.709 | 0.177            | 0.177             | 2.376 | 0.007           | 0.004            | 0.064           | 568             | 0.288              | 0.046 | 0.012            | 0.012             | 0.155 | 0.000           | 0.000            | 0.0042          | 37.1            | 0.004           | 0.001                  | 0.000            | 0.000             | 0.002 | 0.000           | 0.000            | 0.000           | 0.56            |  |  |
| Welding Machine-1     | 20  | 45          | 1      | 8             | 2                  | 4.407                       | 0.709 | 0.177            | 0.177             | 2.376 | 0.007           | 0.004            | 0.064           | 568             | 0.700              | 0.113 | 0.028            | 0.028             | 0.377 | 0.001           | 0.001            | 0.0102          | 90.2            | 0.001           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.09            |  |  |
| Wheeled Loader-1      | 240 | 36          | 1      | 0             | 0                  | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.152           | 470             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.000           | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.00            |                 |  |  |
| Wheeled Loader-2      | 240 | 36          | 1      | 0             | 0                  | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.152           | 470             | 0.000              | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.0000           | 0.000           | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.00            |                 |  |  |
|                       |     |             |        |               |                    | Total                       | 32.9  | 1.69             | 0.799             | 0.799 | 25.499          | 0.272            | 0.065           | 0.573           | 5453               | 0.488 | 0.024            | 0.012             | 0.012 | 0.383           | 0.004            | 0.001           | 0.009           | 81.43           |                        |                  |                   |       |                 |                  |                 |                 |  |  |

On-Road Sources

|                                   |                      |                         |                    |                              |                 | Emission Factors (g/mile) |        |                  |                   |       |                 |                  |                 |                 | Peak Day Emissions (lb/day) |       |                  |                   |       |                 |                  |                 |                 |                 | Total Emissions (tons) |                  |                   |       |                 |                  |                 |                 |  |  |
|-----------------------------------|----------------------|-------------------------|--------------------|------------------------------|-----------------|---------------------------|--------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-----------------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-----------------|------------------------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|--|--|
| Source                            | Peak Round Trips/Day | Average Round Trips/Day | Number of Vehicles | Length of Round Trip (miles) | Duration (days) | NO <sub>x</sub>           | ROG    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub>             | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub> | ROG                    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |  |  |
| Passenger Vehicle - LDA (offsite) | 0                    | 0                       | 0                  | 0                            | 0               | 0.0412                    | 0.0075 | 0.0010           | 0.0009            | 0.709 | 0.0027          | 0.0045           | 0.002           | 278             | 0.000                       | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           |  |  |
| Light-Duty Truck - LDT2 (offsite) | 0                    | 0                       | 0                  | 0                            | 0               | 0.0453                    | 0.0084 | 0.0043           | 0.0041            | 0.085 | 0.0026          | 0.0436           | 0.000           | 277             | 0.000                       | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           |  |  |
| Total                             |                      |                         |                    |                              |                 |                           |        |                  |                   |       |                 |                  |                 |                 | 0.000                       | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           |  |  |

On-Road Sources

|                                   |                      |                         |                    |                              |                 | Emission Factors (g/mile) |                        | Peak Day Emissions (lb/day) |                        | Total Emissions (tons) |                        |
|-----------------------------------|----------------------|-------------------------|--------------------|------------------------------|-----------------|---------------------------|------------------------|-----------------------------|------------------------|------------------------|------------------------|
| Source                            | Peak Round Trips/Day | Average Round Trips/Day | Number of Vehicles | Length of Round Trip (miles) | Duration (days) | PM <sub>10</sub> Dust     | PM <sub>2.5</sub> Dust | PM <sub>10</sub> Dust       | PM <sub>2.5</sub> Dust | PM <sub>10</sub> Dust  | PM <sub>2.5</sub> Dust |
| Passenger Vehicle - LDA (offsite) | 0                    | 0                       | 0                  | 0                            | 0               | 0.4263                    | 0.1069                 | 0.000000                    | 0.000000               | 0.000000               | 0.000000               |
| Light-Duty Truck - LDT2 (offsite) | 0                    | 0                       | 0                  | 0                            | 0               | 0.4272                    | 0.1073                 | 0.000000                    | 0.000000               | 0.000000               | 0.000000               |
|                                   |                      |                         |                    |                              |                 | Total                     |                        | 0.0000000.000000            |                        | 0.0000000.000000       |                        |

Notes:  
Hours per day and durations provided by client.  
Round trips for supplies deliveries, equipment and waste disposal provided by client.

Threemile Slough Crossing Remediation Project  
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS  
TABLE 5: Post Decommissioning Debris Survey

On-Site Sources

|                       |     |             |        |                |                    | Emission Factors (g/bhp-hr) |       |                  |                   |       |                 |                  |                 | Emissions (lb/day) |                 |       |                  |                   |       |                 |                  | Total Emissions (tons) |                 |                 |       |                  |                   |       |                 |                  |                 |                 |      |
|-----------------------|-----|-------------|--------|----------------|--------------------|-----------------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|--------------------|-----------------|-------|------------------|-------------------|-------|-----------------|------------------|------------------------|-----------------|-----------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|------|
| Source                | BHP | Load Factor | Number | Hours/<br>Day* | Duration<br>(days) | NO <sub>x</sub>             | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub>    | NO <sub>x</sub> | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub>        | CO <sub>2</sub> | NO <sub>x</sub> | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |      |
| Air Compressor-1      | 50  | 48          | 1      | 0              | 0                  | 2.740                       | 0.120 | 0.008            | 0.008             | 3.700 | 0.007           | 0.004            | 0.059           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Derrick Barge Crane   | 330 | 29          | 1      | 0              | 0                  | 3.790                       | 0.120 | 0.088            | 0.088             | 2.600 | 0.005           | 0.004            | 0.153           | 472                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Diving Air Compressor | 50  | 48          | 1      | 0              | 0                  | 4.750                       | 0.230 | 0.192            | 0.192             | 3.700 | 0.007           | 0.004            | 0.059           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Generator-1           | 100 | 74          | 1      | 0              | 0                  | 2.740                       | 0.120 | 0.008            | 0.008             | 3.700 | 0.006           | 0.004            | 0.021           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Hydroexcavator        | 300 | 38          | 1      | 0              | 0                  | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.154           | 476                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Light Plant-1         | 15  | 74          | 1      | 0              | 0                  | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Light Plant-2         | 15  | 74          | 1      | 0              | 0                  | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Light Plant-3         | 15  | 74          | 1      | 0              | 0                  | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Light Plant-4         | 15  | 74          | 1      | 0              | 0                  | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.004            | 0.054           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Support Tug Generator | 75  | 43          | 1      | 0              | 0                  | 3.751                       | 0.149 | 0.116            | 0.116             | 0.820 | 0.119           | 0.016            | 0.025           | 550                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Support Tug Mains     | 500 | 50          | 1      | 0              | 0                  | 3.728                       | 0.134 | 0.051            | 0.051             | 0.567 | 0.113           | 0.015            | 0.023           | 527                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Survey Vessel         | 270 | 45          | 1      | 10             | 1                  | 3.728                       | 0.134 | 0.051            | 0.051             | 0.567 | 0.113           | 0.015            | 0.023           | 527                | 9.987           | 0.360 | 0.138            | 0.138             | 1.518 | 0.304           | 0.040            | 0.0619                 | 1,412           | 0.005           | 0.000 | 0.000            | 0.000             | 0.001 | 0.000           | 0.000            | 0.000           | 0.71            |      |
| SEP Generator         | 400 | 74          | 1      | 0              | 0                  | 2.320                       | 0.120 | 0.088            | 0.088             | 2.600 | 0.005           | 0.004            | 0.014           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Water Pump-1          | 20  | 74          | 1      | 0              | 0                  | 4.407                       | 0.709 | 0.177            | 0.177             | 2.376 | 0.007           | 0.004            | 0.064           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Welding Machine-1     | 20  | 45          | 1      | 0              | 0                  | 4.407                       | 0.709 | 0.177            | 0.177             | 2.376 | 0.007           | 0.004            | 0.064           | 568                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Wheeled Loader-1      | 240 | 36          | 1      | 0              | 0                  | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.152           | 470                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
| Wheeled Loader-2      | 240 | 36          | 1      | 0              | 0                  | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.004            | 0.152           | 470                | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.0000                 | 0.000           | 0.000           | 0.000 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.00 |
|                       |     |             |        |                |                    | Total                       | 9.987 | 0.360            | 0.138             | 0.138 | 1.518           | 0.304            | 0.040           | 0.062              | 1412            | 0.005 | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000                  | 0.000           | 0.005           | 0.000 | 0.000            | 0.000             | 0.001 | 0.000           | 0.000            | 0.000           | 0.71            |      |

On-Road Sources

|                                    |                      |                         |                    |                              |                 | Emission Factors (g/mile) |        |                  |                   |       |                 |                  |                 |                 | Peak Day Emissions (lb/day) |       |                  |                   |       |                 |                  |                 |                 |                 | Total Emissions (tons) |                  |                   |       |                 |                  |                 |                 |       |  |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------------|-----------------|---------------------------|--------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-----------------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-----------------|------------------------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|-------|--|
| Source                             | Peak Round Trips/Day | Average Round Trips/Day | Number of Vehicles | Length of Round Trip (miles) | Duration (days) | NO <sub>x</sub>           | ROG    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub>             | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub> | ROG                    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |       |  |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 120                          | 2               | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.054 | 0.0144          | 0.2394           | 0.001           | 1520            | 0.257                       | 0.003 | 0.004            | 0.004             | 0.014 | 0.004           | 0.063            | 0.000           | 402             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.402 |  |
|                                    |                      |                         |                    |                              |                 | Total                     |        |                  |                   |       |                 |                  |                 |                 | 0.257                       | 0.003 | 0.004            | 0.004             | 0.014 | 0.004           | 0.063            | 0.000           | 402             | 0.000           | 0.000                  | 0.000            | 0.000             | 0.000 | 0.000           | 0.000            | 0.000           | 0.000           | 0.40  |  |

On-Road Sources

|                                    |                      |                         |                    |                              |                 | Emission Factors (g/mile) |                        | Peak Day Emissions (lb/day) |                        | Total Emissions (tons) |                        |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------------|-----------------|---------------------------|------------------------|-----------------------------|------------------------|------------------------|------------------------|
| Source                             | Peak Round Trips/Day | Average Round Trips/Day | Number of Vehicles | Length of Round Trip (miles) | Duration (days) | PM <sub>10</sub> Dust     | PM <sub>2.5</sub> Dust | PM <sub>10</sub> Dust       | PM <sub>2.5</sub> Dust | PM <sub>10</sub> Dust  | PM <sub>2.5</sub> Dust |
| Heavy Duty Trucks - T7TC (offsite) | 1                    | 1                       | 1                  | 120                          | 2               | 0.4920                    | 0.1299                 | 0.130162                    | 0.034375113            | 0.000130               | 0.000034               |
| Total                              |                      |                         |                    |                              |                 |                           |                        | 0.130162                    | 0.034375               | 0.000130               | 0.000034               |

**Notes:**  
Hours per day and durations provided by client.  
Round trips for supplies deliveries and equipment provided by client.

Threemile Slough Crossing Remediation Project  
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS  
TABLE 6: Construction - Fugitive Dust Emissions

Construction

| Activity                                | Source | Source Units      | Number of Days | Emission Factor | Emission Factor, Units | Peak Day Emissions (lbs/day) |                   | Total Emissions (tons) |                   |
|-----------------------------------------|--------|-------------------|----------------|-----------------|------------------------|------------------------------|-------------------|------------------------|-------------------|
|                                         |        |                   |                |                 |                        | PM <sub>10</sub>             | PM <sub>2.5</sub> | PM <sub>10</sub>       | PM <sub>2.5</sub> |
| Pre-Decommissioning Debris Survey       |        |                   |                |                 |                        |                              |                   |                        |                   |
| Site Grading                            | 0.00   | acres/day         | 0              | 1.1             | lbs PM10/day/acre      | 0.0000                       | 0.0000            | 0.0000                 | 0.0000            |
| Truck Loading & Dumping (Grading Phase) | 0.00   | tons/day          | 0              | 1.72E-04        | lbs/ton                | 0.0000                       | 0.0000            | 0.0000                 | 0.0000            |
| Vehicle Miles Off-Road                  | 0.00   | vehicle-miles/day | 0              | 2.59            | lbs/vehicle-mile       | 0.0000                       | 0.0000            | 0.0000                 | 0.0000            |
| Max/Total                               |        |                   |                |                 |                        | 0.000                        | 0.000             | 0.000                  | 0.0000            |
| Terrestrial Decommissioning             |        |                   |                |                 |                        |                              |                   |                        |                   |
| Site Grading                            | 0.25   | acres/day         | 0              | 1.1             | lbs PM10/day/acre      | 0.2750                       | 0.0250            | 0.0000                 | 0.0000            |
| Truck Loading & Dumping (Grading Phase) | 100    | tons/day          | 0              | 1.72E-04        | lbs/ton                | 0.0172                       | 0.0026            | 0.0000                 | 0.0000            |
| Vehicle Miles Off-Road                  | 2.5    | vehicle-miles/day | 8              | 2.59            | lbs/vehicle-mile       | 6.4752                       | 0.6475            | 0.0259                 | 0.0039            |
| Max/Total                               |        |                   |                |                 |                        | 6.767                        | 0.675             | 0.026                  | 0.0039            |
| Marine Decommissioning                  |        |                   |                |                 |                        |                              |                   |                        |                   |
| Site Grading                            | 0.00   | acres/day         | 0              | 1.1             | lbs PM10/day/acre      | 0.0000                       | 0.0000            | 0.0000                 | 0.0000            |
| Truck Loading & Dumping (Grading Phase) | 0.00   | tons/day          | 0              | 1.72E-04        | lbs/ton                | 0.0000                       | 0.0000            | 0.0000                 | 0.0000            |
| Vehicle Miles Off-Road                  | 0.00   | vehicle-miles/day | 0              | 2.59            | lbs/vehicle-mile       | 0.0000                       | 0.0000            | 0.0000                 | 0.0000            |
| Max/Total                               |        |                   |                |                 |                        | 0.000                        | 0.000             | 0.0000                 | 0.0000            |
| Post Decommissioning Debris Survey      |        |                   |                |                 |                        |                              |                   |                        |                   |
| Site Grading                            | 0.00   | acres/day         | 0              | 1.1             | lbs PM10/day/acre      | 0.0000                       | 0.0000            | 0.0000                 | 0.0000            |
| Truck Loading & Dumping (Grading Phase) | 0.00   | tons/day          | 0              | 1.72E-04        | lbs/ton                | 0.0000                       | 0.0000            | 0.0000                 | 0.0000            |
| Vehicle Miles Off-Road                  | 0.00   | vehicle-miles/day | 0              | 2.59            | lbs/vehicle-mile       | 0.0000                       | 0.0000            | 0.0000                 | 0.0000            |
| Max/Total                               |        |                   |                |                 |                        | 0.000                        | 0.000             | 0.0000                 | 0.0000            |

Fugitive Dust Emissions: Inputs for the Table

Emission factors based on following inputs

|                                                             |       |                                                                                          |
|-------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|
| Mean number of rain days per year                           | 0     | worst case                                                                               |
| Silt content of soil, fill storage pile, %                  | 1.5   | SCAQMD default value                                                                     |
| Roadway inputs (paved and unpaved, as per URBEMIS)          |       |                                                                                          |
| Roads mean vehicle weight, tons                             | 20.61 | based on project description, HHDT + LDT and vehicles weight (average of full and empty) |
| unpaved dirt road silt content, %                           | 8.4   | AP-42 construction sites                                                                 |
| Truck Loading inputs                                        |       |                                                                                          |
| k, particle size multiplier, default=0.35 fpr pm10          | 0.35  |                                                                                          |
| U, mean wind speed, mph range 1.3-15                        | 8.15  |                                                                                          |
| M, moisture content, default=12%                            | 12    |                                                                                          |
| PM2.5/PM10 ratio truck loading                              | 0.15  |                                                                                          |
| Site grading emissions from CalEEMod for grading            | 0.091 | ratio of PM2.5/PM10 CalEEMod                                                             |
| Demolition materials, tons/yds3                             | 1.000 | estimated for concrete debris                                                            |
| Fill materials, tons/yds3                                   | 1.000 | estimated for soils                                                                      |
| Mitigation: demolition area watering (fraction reduction)   |       |                                                                                          |
| Mitigation: grading/dist area watering (fraction reduction) | 0.00  | 0.61 for watering every 3 hours (SCAQMD)                                                 |
| Mitigation: dumping soil moisture (fraction reduction)      | 0.00  | 0.61 for watering every 3 hours (SCAQMD)                                                 |
| Mitigation: storage piles (fraction reduction)              | 0.00  | 0.69 for minimum 12% soil moisture (SCAQMD)                                              |
| Mitigation: roads (fraction reduction)                      | 0.00  | 0.90 for watering by hand and covering (SCAQMD)                                          |
|                                                             | 0.00  | 0.55 for watering 3X per day (SCAQMD), 0.80 for soil binders applied monthly (AP-42)     |

**Notes:**

PM2.5/PM10 ratio as per AP-42 k factor for PM10 and PM2.5

Demolition dust calculations as per EPA AP-42 11.19 and 13.2.4

Truck loading dumping cut/fill based on CalEEMod

Storage pile emissions based on SCAQMD Handbook (URBEMIS does not address emissions from storage piles)

Paved and unpaved road dust emissions based on AP-42 2006 (unpaved) Chapt 13. EPA AP-42 2006 is the same as URBEMS and CalEEMod

One month assumes 22 days of activity, as per URBEMIS

Threemile Slough Crossing Remediation Project  
CRITERIA POLLUTANTS & GREENHOUSE GAS EMISSIONS  
TABLE 7: Emission Factors and Assumptions

| Onsite Construction   |      |                        |             | Emission Factors (g/bhp-hr) |       |                  |                   |       |                 |                  |                 |                 | Emission Factors (lb/bhp-hr) |        |                  |                   |        |                 |                  |                 |                 |
|-----------------------|------|------------------------|-------------|-----------------------------|-------|------------------|-------------------|-------|-----------------|------------------|-----------------|-----------------|------------------------------|--------|------------------|-------------------|--------|-----------------|------------------|-----------------|-----------------|
|                       | Tier | Operational Horsepower | Load Factor | NO <sub>x</sub>             | ROG   | PM <sub>10</sub> | PM <sub>2.5</sub> | CO    | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub>              | ROG    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO     | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |
| Air Compressor-1      | 4    | 50                     | 48          | 2.740                       | 0.120 | 0.008            | 0.008             | 3.700 | 0.007           | 0.0042           | 0.059           | 568             | 0.0060                       | 0.0003 | 0.0000           | 0.0000            | 0.0082 | 0.00002         | 0.00001          | 0.00013         | 1.2529          |
| Derrick Barge Crane   | 2    | 330                    | 29          | 3.790                       | 0.120 | 0.088            | 0.088             | 2.600 | 0.005           | 0.0042           | 0.153           | 472             | 0.0084                       | 0.0003 | 0.0002           | 0.0002            | 0.0057 | 0.00001         | 0.00001          | 0.00034         | 1.0405          |
| Diving Air Compressor | 2    | 50                     | 48          | 4.750                       | 0.230 | 0.192            | 0.192             | 3.700 | 0.007           | 0.0042           | 0.059           | 568             | 0.0105                       | 0.0005 | 0.0004           | 0.0004            | 0.0082 | 0.00002         | 0.00001          | 0.00013         | 1.2529          |
| Excavator-1           | 4    | 310                    | 38          | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.0042           | 0.152           | 470             | 0.0006                       | 0.0001 | 0.0000           | 0.0000            | 0.0049 | 0.00001         | 0.00001          | 0.00034         | 1.0355          |
| Excavator-2           | 4    | 310                    | 38          | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.0042           | 0.152           | 470             | 0.0006                       | 0.0001 | 0.0000           | 0.0000            | 0.0049 | 0.00001         | 0.00001          | 0.00034         | 1.0355          |
| Generator-1           | 4    | 100                    | 74          | 2.740                       | 0.120 | 0.008            | 0.008             | 3.700 | 0.006           | 0.0042           | 0.021           | 568             | 0.0060                       | 0.0003 | 0.0000           | 0.0000            | 0.0082 | 0.00001         | 0.00001          | 0.00005         | 1.2529          |
| Hydroexcavator        | 4    | 300                    | 38          | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.0042           | 0.154           | 476             | 0.0006                       | 0.0001 | 0.0000           | 0.0000            | 0.0049 | 0.00001         | 0.00001          | 0.00034         | 1.0501          |
| Light Plant-1         | 4    | 15                     | 74          | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.0042           | 0.054           | 568             | 0.0094                       | 0.0013 | 0.0004           | 0.0004            | 0.0077 | 0.00002         | 0.00001          | 0.00012         | 1.2529          |
| Light Plant-2         | 4    | 15                     | 74          | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.0042           | 0.054           | 568             | 0.0094                       | 0.0013 | 0.0004           | 0.0004            | 0.0077 | 0.00002         | 0.00001          | 0.00012         | 1.2529          |
| Light Plant-3         | 4    | 15                     | 74          | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.0042           | 0.054           | 568             | 0.0094                       | 0.0013 | 0.0004           | 0.0004            | 0.0077 | 0.00002         | 0.00001          | 0.00012         | 1.2529          |
| Light Plant-4         | 4    | 15                     | 74          | 4.269                       | 0.607 | 0.178            | 0.178             | 3.491 | 0.008           | 0.0042           | 0.054           | 568             | 0.0094                       | 0.0013 | 0.0004           | 0.0004            | 0.0077 | 0.00002         | 0.00001          | 0.00012         | 1.2529          |
| Support Tug Generator | 2    | 75                     | 43          | 3.751                       | 0.149 | 0.116            | 0.116             | 0.820 | 0.119           | 0.0164           | 0.025           | 550             | 0.0083                       | 0.0003 | 0.0003           | 0.0003            | 0.0018 | 0.00026         | 0.00004          | 0.00005         | 1.2133          |
| Support Tug Mains     | 2    | 500                    | 50          | 3.728                       | 0.134 | 0.051            | 0.051             | 0.567 | 0.113           | 0.0149           | 0.023           | 527             | 0.0082                       | 0.0003 | 0.0001           | 0.0001            | 0.0012 | 0.00025         | 0.00003          | 0.00005         | 1.1623          |
| Survey Vessel         | 3    | 270                    | 45          | 3.728                       | 0.134 | 0.051            | 0.051             | 0.567 | 0.113           | 0.0149           | 0.023           | 527             | 0.0082                       | 0.0003 | 0.0001           | 0.0001            | 0.0012 | 0.00025         | 0.00003          | 0.00005         | 1.1623          |
| SEP Generator         | 3    | 400                    | 74          | 2.320                       | 0.120 | 0.088            | 0.088             | 2.600 | 0.005           | 0.0042           | 0.014           | 568             | 0.0051                       | 0.0003 | 0.0002           | 0.0002            | 0.0057 | 0.00001         | 0.00001          | 0.00003         | 1.2529          |
| Water Pump-1          | 4    | 20                     | 74          | 4.407                       | 0.709 | 0.177            | 0.177             | 2.376 | 0.007           | 0.0042           | 0.064           | 568             | 0.0097                       | 0.0016 | 0.0004           | 0.0004            | 0.0052 | 0.00002         | 0.00001          | 0.00014         | 1.2529          |
| Welding Machine-1     | 4    | 20                     | 45          | 4.407                       | 0.709 | 0.177            | 0.177             | 2.376 | 0.007           | 0.0042           | 0.064           | 568             | 0.0097                       | 0.0016 | 0.0004           | 0.0004            | 0.0052 | 0.00002         | 0.00001          | 0.00014         | 1.2529          |
| Wheeled Loader-1      | 4    | 240                    | 36          | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.0042           | 0.152           | 470             | 0.0006                       | 0.0001 | 0.0000           | 0.0000            | 0.0049 | 0.00001         | 0.00001          | 0.00034         | 1.0359          |
| Wheeled Loader-2      | 4    | 240                    | 36          | 0.260                       | 0.060 | 0.008            | 0.008             | 2.200 | 0.005           | 0.0042           | 0.152           | 470             | 0.0006                       | 0.0001 | 0.0000           | 0.0000            | 0.0049 | 0.00001         | 0.00001          | 0.00034         | 1.0359          |

| Offsite Trasporation                  |      |                   | Emission Factors (g/mile) |        |                  |                   |        |                 |                  |                 |                 | Emission Factors (lb/mile) |        |                  |                   |        |                 |                  |                 |                 |
|---------------------------------------|------|-------------------|---------------------------|--------|------------------|-------------------|--------|-----------------|------------------|-----------------|-----------------|----------------------------|--------|------------------|-------------------|--------|-----------------|------------------|-----------------|-----------------|
| Source                                | Tier | Region            | NO <sub>x</sub>           | ROG    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO     | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> | NO <sub>x</sub>            | ROG    | PM <sub>10</sub> | PM <sub>2.5</sub> | CO     | SO <sub>2</sub> | N <sub>2</sub> O | CH <sub>4</sub> | CO <sub>2</sub> |
| Passenger Vehicle - LDA (offsite)     | --   | Sacramento County | 0.0412                    | 0.0075 | 0.0010           | 0.0009            | 0.7090 | 0.0027          | 0.0045           | 0.0019          | 277.9           | 0.0001                     | 0.0000 | 0.0000           | 0.0000            | 0.0016 | 0.00001         | 0.00001          | 0.00000         | 0.6127          |
| Light-Duty Truck - LDT2 (offsite)     | --   | Sacramento County | 0.0453                    | 0.0084 | 0.0043           | 0.0041            | 0.0850 | 0.0026          | 0.0436           | 0.0004          | 277.0           | 0.0001                     | 0.0000 | 0.0000           | 0.0000            | 0.0002 | 0.00001         | 0.00010          | 0.00000         | 0.6106          |
| Med-Heavy Duty - T6 Utility (offsite) | --   | Sacramento County | 0.2846                    | 0.0040 | 0.0044           | 0.0042            | 0.0226 | 0.0092          | 0.1528           | 0.0002          | 969.8           | 0.0006                     | 0.0000 | 0.0000           | 0.0000            | 0.0000 | 0.00002         | 0.00034          | 0.00000         | 2.1380          |
| Heavy Duty Trucks - T7TC (offsite)    | --   | Sacramento County | 0.9707                    | 0.0116 | 0.0168           | 0.0161            | 0.0542 | 0.0144          | 0.2394           | 0.0005          | 1519.6          | 0.0021                     | 0.0000 | 0.0000           | 0.0000            | 0.0001 | 0.00003         | 0.00053          | 0.00000         | 3.3502          |

| Offsite Dust - Mobile Sources         |      |                   | Emission Factors (g/mile) |                        | Emission Factors (lb/mile) |                        |
|---------------------------------------|------|-------------------|---------------------------|------------------------|----------------------------|------------------------|
| Source                                | Tier | Region            | PM <sub>10</sub> Dust     | PM <sub>2.5</sub> Dust | PM <sub>10</sub> Dust      | PM <sub>2.5</sub> Dust |
| Passenger Vehicle - LDA (offsite)     | --   | Sacramento County | 0.4263                    | 0.1069                 | 0.000940                   | 0.000236               |
| Light-Duty Truck - LDT2 (offsite)     | --   | Sacramento County | 0.4272                    | 0.1073                 | 0.000942                   | 0.000236               |
| Med-Heavy Duty - T6 Utility (offsite) | --   | Sacramento County | 0.4642                    | 0.1202                 | 0.001023                   | 0.000265               |
| Heavy Duty Trucks - T7TC (offsite)    | --   | Sacramento County | 0.4920                    | 0.1299                 | 0.001085                   | 0.000286               |

Notes:

- \*Equipment list and engine sizes obtained from client.
- Equipment criteria pollutant emission factors and load factors were obtained from CalEEMod, Appendix D 2020 and Ports Emissions Inventory Guidance, EPA, 2020.
- N<sub>2</sub>O emission factors for equipment were obtained from CFR Part 98 Table C-2 and CalEEMod Appendix D 2020.
- CO<sub>2</sub> and CH<sub>4</sub> emission factors for construction equipment were obtained from CalEEMod Appendix D 2020 and Ports Emissions Inventory Guidance, EPA, 2020.
- \*Vehicle emissions factors obtained from EMFAC-2021