

APPENDIX II-A

CONSTRUCTION EMISSION CALCULATIONS

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CONSTRUCTION EMISSION CALCULATIONS
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**Table 1
Construction Schedule**

| Component | Phase | Construction Week | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|-------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|-------|-------|-------|---|---|---|---|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 | | | | | |
| Convert First Tank to Ethanol | Draining and Degassing | █ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | | █ | █ | █ | █ | █ | █ | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Internal Coating | | | | | | | | | | | | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Manifold Modifications | | █ | █ | █ | █ | █ | █ | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol | Draining and Degassing | █ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | | █ | █ | █ | █ | █ | █ | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Internal Coating | | | | | | | | | | | | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Manifold Modifications | | █ | █ | █ | █ | █ | █ | █ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol | Draining and Degassing | | | | | | | | | | | | | | █ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | | | | | | | | | | | | | | █ | █ | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | | | | | | | | | | | | | █ | █ | | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | | | | | | | | | | | | | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | | |
| | Internal Coating | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Manifold Modifications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol | Draining and Degassing | | | | | | | | | | | | | | █ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | | | | | | | | | | | | | | █ | █ | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | | | | | | | | | | | | | █ | █ | | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | | | | | | | | | | | | | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | | |
| | Internal Coating | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Manifold Modifications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Loading Lane | Skid Piping Installation | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | | | |
| | Canopy Structure Installation | | | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | | |
| | Rack Piping Modifications | | | | | | | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | |
| | Paving | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ethanol Pumps Foundations Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ethanol Pumps Manifold Piping Modifications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ethanol Pumps Pump Installation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rack Operations Building | Foundations Construction | | | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | | |
| | Demolition and Building Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gasoline Tank | Grading & Site Prep. (Incl. Rack Ops. Bldg.) | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | █ | | |
| | Foundation Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Foundation Level Survey | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Tank Shell Erection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Piping Installation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydrotest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | External Roof Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Internal Blasting and Coating | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| External Blasting and Coating | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Table 2
Peak Daily Construction Emissions**

| Source | Peak Daily Emissions (lb/day) | | | | | |
|------------------------------------|-------------------------------|--------------|--------------|------------|--------------|-------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Construction Equipment Exhaust | 72.8 | 250.0 | 551.6 | 0.7 | 25.6 | 23.6 |
| On-Site Motor Vehicle Exhaust | 0.7 | 4.2 | 5.2 | 0.0 | 0.3 | 0.2 |
| On-Site Motor Vehicle Fugitive PM | | | | | 52.7 | 5.6 |
| Earthwork Fugitive PM | | | | | 7.8 | 1.6 |
| Painting VOC | 28.9 | | | | | |
| Asphaltic Paving VOC | 0.0 | | | | | |
| Degassing Emissions ^a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Total | 102.4 | 254.3 | 556.8 | 0.7 | 86.4 | 31.0 |
| Off-Site Motor Vehicle Exhaust | 22.5 | 133.4 | 188.4 | 0.3 | 9.6 | 8.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 6.9 | 0.0 |
| Off-Site Total | 22.5 | 133.4 | 188.4 | 0.3 | 16.5 | 8.1 |
| Total | 124.9 | 387.7 | 745.2 | 1.0 | 103.0 | 39.1 |

Note: Totals may not match sum of individual values because of rounding.

^a Only one storage tank will be degassed on a single day.

**Table 3
Maximum Daily Construction Emissions during Overlapping Interim Operational Phases**

| Interim Operational Phase | Maximum Daily Emissions (lb/day) | | | | | |
|---------------------------|----------------------------------|-------|-------|-----|-------|-------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Phase I (weeks 1-16) | 124.9 | 387.7 | 745.2 | 1.0 | 103.0 | 39.1 |
| Phase II (weeks 17-72) | 74.8 | 220.9 | 417.5 | 0.6 | 58.1 | 22.4 |
| Significance Threshold | 55 | 550 | 55 | 150 | 150 | 55 |
| Significant? | Yes | No | Yes | No | No | No |

**Table 4
Daily VOC Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 33.6 | 33.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.9 | | 2.9 | 2.9 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 7.3 | | | | 7.3 | 7.3 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 14.9 | | | | | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | 6.9 | 6.9 | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.9 | | 2.9 | 2.9 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 7.3 | | | | 7.3 | 7.3 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 14.9 | | | | | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | 6.9 | 6.9 | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 18.1 | | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | 33.6 | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | 2.9 | 2.9 | | |
| Convert Third Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | | | | | | | | 7.3 |
| Convert Third Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | | | | | 18.1 | 18.1 | 18.1 | 18.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | 2.9 | 2.9 | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | | | | | | | | 7.3 |
| Convert Fourth Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | | | | | 18.1 | 18.1 | 18.1 | 18.1 |
| New Loading Lane - Skid Piping Installation | 16.1 | 16.1 | 16.1 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 20.9 | | | 20.9 | 20.9 | 20.9 | 20.9 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 19.3 | | | | | | | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | | | | | |
| New Loading Lane - Paving | 10.5 | | | | | | | | | | | | | 10.5 | 10.5 | 10.5 | 10.5 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 19.7 | 19.7 | 19.7 | 19.7 | 19.7 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 14.3 | | | | | | | | 14.3 | 14.3 | 14.3 | 14.3 | | | | | | |
| Rack Operations Building - Foundations Construction | 14.1 | | | 14.1 | 14.1 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 22.2 | | | | | 22.2 | 22.2 | 22.2 | 22.2 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 7.6 | 7.6 | 7.6 | 7.6 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 10.0 | | | | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | |
| Gasoline Tank - Foundation Level Survey | 1.7 | | | | | | | | | | | | | | | | | 1.7 |
| Gasoline Tank - Tank Shell Erection | 8.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 19.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 4.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 6.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 54.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 29.5 | | | | | | | | | | | | | | | | | |
| Total | | 104.4 | 94.7 | 113.6 | 124.9 | 103.8 | 119.1 | 117.5 | 81.3 | 73.4 | 73.4 | 57.3 | 34.2 | 90.3 | 62.4 | 62.4 | 52.5 | |

Note: Totals may not match sum of individual values because of rounding.

Table 4
Daily VOC Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|------------|------------|------------|-------------|-------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 7.3 | 7.3 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 14.9 | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | 6.9 | 6.9 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 7.3 | 7.3 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 14.9 | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | 6.9 | 6.9 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 16.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 20.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 19.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 10.5 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 9.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 19.7 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 14.3 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 14.1 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 22.2 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 7.6 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 10.0 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 1.7 | 1.7 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 8.8 | | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | | | | |
| Gasoline Tank - Piping Installation | 19.3 | | | | | | | | | | | | 19.3 | | | | |
| Gasoline Tank - Hydrotest | 4.9 | | | | | | | | | | | | | 4.9 | | | |
| Gasoline Tank - External Roof Construction | 6.1 | | | | | | | | | | | | | | 6.1 | | |
| Gasoline Tank - Internal Blasting and Coating | 54.6 | | | | | | | | | | | | | | | 54.6 | |
| Gasoline Tank - External Blasting and Coating | 29.5 | | | | | | | | | | | | | | | | 29.5 |
| Total | | 52.5 | 74.8 | 74.8 | 38.6 | 38.6 | 38.6 | 38.6 | 22.5 | 22.5 | 8.8 | 28.0 | 8.8 | 4.9 | 6.1 | 54.6 | 29.5 |

Note: Totals may not match sum of individual values because of rounding.

**Table 5
Daily CO Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 11.2 | 11.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 17.8 | | 17.8 | 17.8 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 34.9 | | | | 34.9 | 34.9 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 45.1 | | | | | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | 30.6 | 30.6 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 17.8 | | 17.8 | 17.8 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 34.9 | | | | 34.9 | 34.9 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 45.1 | | | | | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | 30.6 | 30.6 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 45.1 | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | 11.2 | | |
| Convert Third Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | | 17.8 | 17.8 |
| Convert Third Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | | | | | | | | 34.9 |
| Convert Third Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | | | | | | 45.1 | 45.1 | 45.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | | 17.8 | 17.8 |
| Convert Fourth Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | | | | | | | | 34.9 |
| Convert Fourth Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | | | | | | 45.1 | 45.1 | 45.1 |
| New Loading Lane - Skid Piping Installation | 48.3 | 48.3 | 48.3 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 48.3 | | | 48.3 | 48.3 | 48.3 | 48.3 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 49.9 | | | | | | | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | | | | | |
| New Loading Lane - Paving | 41.9 | | | | | | | | | | | | | 41.9 | 41.9 | 41.9 | 41.9 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 42.5 | | | | | | | | | 42.5 | 42.5 | 42.5 | 42.5 | | | | | |
| Rack Operations Building - Foundations Construction | 53.6 | | | 53.6 | 53.6 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 53.6 | | | | | 53.6 | 53.6 | 53.6 | 53.6 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 37.2 | 37.2 | 37.2 | 37.2 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 43.8 | | | | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | |
| Gasoline Tank - Foundation Level Survey | 9.4 | | | | | | | | | | | | | | | | | 9.4 |
| Gasoline Tank - Tank Shell Erection | 40.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 48.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 24.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 26.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 75.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 43.6 | | | | | | | | | | | | | | | | | |
| Total | | 223.9 | 293.6 | 347.1 | 387.7 | 305.6 | 326.1 | 327.7 | 237.5 | 226.4 | 226.4 | 226.4 | 197.3 | 146.8 | 187.1 | 211.6 | 211.6 | 169.3 |

Note: Totals may not match sum of individual values because of rounding.

Table 5
Daily CO Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 34.9 | 34.9 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 45.1 | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | 30.6 | 30.6 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 34.9 | 34.9 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 45.1 | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | 30.6 | 30.6 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 48.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 48.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 49.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 41.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 37.0 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 45.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 42.5 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 53.6 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 53.6 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 37.2 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 43.8 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 9.4 | 9.4 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 40.4 | | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | | | | |
| Gasoline Tank - Piping Installation | 48.3 | | | | | | | | | | | | 48.3 | | | | |
| Gasoline Tank - Hydrotest | 24.7 | | | | | | | | | | | | | 24.7 | | | |
| Gasoline Tank - External Roof Construction | 26.1 | | | | | | | | | | | | | | 26.1 | | |
| Gasoline Tank - Internal Blasting and Coating | 75.1 | | | | | | | | | | | | | | | 75.1 | |
| Gasoline Tank - External Blasting and Coating | 43.6 | | | | | | | | | | | | | | | | 43.6 |
| Total | | 169.3 | 220.9 | 220.9 | 130.6 | 130.6 | 130.6 | 130.6 | 101.5 | 101.5 | 40.4 | 88.7 | 40.4 | 24.7 | 26.1 | 75.1 | 43.6 |

Note: Totals may not match sum of individual values because of rounding.

Table 6
Daily NOx Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 16.8 | 16.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 20.4 | | 20.4 | 20.4 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 68.6 | | | | 68.6 | 68.6 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 81.0 | | | | | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | 70.5 | 70.5 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 20.4 | | 20.4 | 20.4 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 68.6 | | | | 68.6 | 68.6 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 81.0 | | | | | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | 70.5 | 70.5 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 81.0 | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | 16.8 | | | |
| Convert Third Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | 20.4 | 20.4 | |
| Convert Third Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | | | | | | | | 68.6 |
| Convert Third Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | | | | | | 81.0 | 81.0 | 81.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | 20.4 | 20.4 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | | | | | | | | 68.6 |
| Convert Fourth Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | | | | | | 81.0 | 81.0 | 81.0 |
| New Loading Lane - Skid Piping Installation | 84.3 | 84.3 | 84.3 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 84.3 | | | 84.3 | 84.3 | 84.3 | 84.3 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 96.1 | | | | | | | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | | | | | |
| New Loading Lane - Paving | 77.4 | | | | | | | | | | | | | 77.4 | 77.4 | 77.4 | 77.4 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 73.1 | | | | | | | | | 73.1 | 73.1 | 73.1 | 73.1 | | | | | |
| Rack Operations Building - Foundations Construction | 100.2 | | | 100.2 | 100.2 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 100.1 | | | | | 100.1 | 100.1 | 100.1 | 100.1 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 67.2 | 67.2 | 67.2 | 67.2 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 104.4 | | | | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | |
| Gasoline Tank - Foundation Level Survey | 16.3 | | | | | | | | | | | | | | | | | 16.3 |
| Gasoline Tank - Tank Shell Erection | 93.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 84.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 46.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 63.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 209.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 113.0 | | | | | | | | | | | | | | | | | |
| Total | | 406.4 | 511.3 | 611.5 | 745.2 | 588.0 | 612.8 | 624.5 | 462.6 | 435.6 | 435.6 | 435.6 | 414.7 | 323.0 | 360.6 | 384.6 | 384.6 | 315.4 |

Note: Totals may not match sum of individual values because of rounding.

Table 6
Daily NOx Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|-------------|-------------|-------------|--------------|--------------|--|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-30 | 31-31 | 01-02 | 03-04 | 05-06 | |
| Convert First Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 68.6 | 68.6 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 81.0 | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | 70.5 | 70.5 | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 68.6 | 68.6 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 81.0 | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | 70.5 | 70.5 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 84.3 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 84.3 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 96.1 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 77.4 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 76.1 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 81.0 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 73.1 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 100.2 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 100.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 67.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 104.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 16.3 | 16.3 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 93.7 | | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | | | | | |
| Gasoline Tank - Piping Installation | 84.3 | | | | | | | | | | | 84.3 | | | | | | |
| Gasoline Tank - Hydrotest | 46.3 | | | | | | | | | | | | | 46.3 | | | | |
| Gasoline Tank - External Roof Construction | 63.1 | | | | | | | | | | | | | | 63.1 | | | |
| Gasoline Tank - Internal Blasting and Coating | 209.6 | | | | | | | | | | | | | | | 209.6 | | |
| Gasoline Tank - External Blasting and Coating | 113.0 | | | | | | | | | | | | | | | | 113.0 | |
| Total | | 315.4 | 417.5 | 417.5 | 255.6 | 255.6 | 255.6 | 255.6 | 234.7 | 234.7 | 93.7 | 178.0 | 93.7 | 46.3 | 63.1 | 209.6 | 113.0 | |

Note: Totals may not match sum of individual values because of rounding.

Table 7
Daily SOx Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.0 | | 0.0 | 0.0 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 0.1 | | | | 0.1 | 0.1 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 0.1 | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | 0.1 | 0.1 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.0 | | 0.0 | 0.0 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 0.1 | | | | 0.1 | 0.1 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 0.1 | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | 0.1 | 0.1 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | 0.0 | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | 0.0 | 0.0 | | |
| Convert Third Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | | | | | | | | 0.1 |
| Convert Third Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | 0.0 | 0.0 | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | | | | | | | | 0.1 |
| Convert Fourth Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 |
| New Loading Lane - Skid Piping Installation | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 0.1 | | | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 0.1 | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | |
| New Loading Lane - Paving | 0.1 | | | | | | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.1 | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | |
| Rack Operations Building - Foundations Construction | 0.1 | | | 0.1 | 0.1 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 0.1 | | | | | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 0.1 | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Gasoline Tank - Foundation Level Survey | 0.0 | | | | | | | | | | | | | | | | | 0.0 |
| Gasoline Tank - Tank Shell Erection | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 0.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 0.2 | | | | | | | | | | | | | | | | | |
| Total | | 0.5 | 0.7 | 0.8 | 1.0 | 0.8 | 0.8 | 0.8 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 |

Note: Totals may not match sum of individual values because of rounding.

**Table 7
Daily SOx Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 0.1 | 0.1 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | 0.1 | 0.1 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 0.1 | 0.1 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | 0.1 | 0.1 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.1 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 0.1 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 0.1 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 0.1 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 0.1 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.0 | 0.0 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | |
| Gasoline Tank - Piping Installation | 0.1 | | | | | | | | | | | 0.1 | | | | | |
| Gasoline Tank - Hydrotest | 0.1 | | | | | | | | | | | | | 0.1 | | | |
| Gasoline Tank - External Roof Construction | 0.1 | | | | | | | | | | | | | | 0.1 | | |
| Gasoline Tank - Internal Blasting and Coating | 0.3 | | | | | | | | | | | | | | | 0.3 | |
| Gasoline Tank - External Blasting and Coating | 0.2 | | | | | | | | | | | | | | | | 0.2 |
| Total | | 0.5 | 0.6 | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 |

Note: Totals may not match sum of individual values because of rounding.

**Table 8
Daily PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 3.1 | 3.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 3.3 | | 3.3 | 3.3 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5.1 | | | | 5.1 | 5.1 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 11.9 | | | | | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | 4.9 | 4.9 | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 3.3 | | 3.3 | 3.3 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5.1 | | | | 5.1 | 5.1 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 11.9 | | | | | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | 4.9 | 4.9 | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 11.9 | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | 3.1 | | | |
| Convert Third Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | 3.3 | 3.3 | |
| Convert Third Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | | | | | | | | 5.1 |
| Convert Third Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | | | | | | 11.9 | 11.9 | 11.9 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | 3.3 | 3.3 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | | | | | | | | 5.1 |
| Convert Fourth Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | | | | | | 11.9 | 11.9 | 11.9 |
| New Loading Lane - Skid Piping Installation | 12.6 | 12.6 | 12.6 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 12.6 | | | 12.6 | 12.6 | 12.6 | 12.6 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 13.6 | | | | | | | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 | | | | | |
| New Loading Lane - Paving | 12.5 | | | | | | | | | | | | | 12.5 | 12.5 | 12.5 | 12.5 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 11.0 | | | | | | | | | 11.0 | 11.0 | 11.0 | 11.0 | | | | | |
| Rack Operations Building - Foundations Construction | 16.7 | | | 16.7 | 16.7 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 14.4 | | | | | 14.4 | 14.4 | 14.4 | 14.4 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 15.4 | 15.4 | 15.4 | 15.4 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 15.3 | | | | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | |
| Gasoline Tank - Foundation Level Survey | 5.4 | | | | | | | | | | | | | | | | | 5.4 |
| Gasoline Tank - Tank Shell Erection | 10.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 12.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrottest | 3.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 8.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 9.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 5.9 | | | | | | | | | | | | | | | | | |
| Total | | 67.3 | 82.7 | 99.5 | 103.0 | 76.3 | 89.9 | 90.9 | 67.1 | 63.7 | 63.7 | 63.7 | 49.8 | 37.7 | 54.7 | 58.2 | 58.2 | 39.3 |

Note: Totals may not match sum of individual values because of rounding.

Table 8
Daily PM10 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 5.1 | 5.1 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 11.9 | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | 4.9 | 4.9 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 5.1 | 5.1 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 11.9 | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | 4.9 | 4.9 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 12.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 12.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 13.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 12.5 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 12.0 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 12.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 11.0 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 16.7 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 14.4 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 15.4 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 15.3 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 5.4 | 5.4 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 10.5 | | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | | | | |
| Gasoline Tank - Piping Installation | 12.6 | | | | | | | | | | | | 12.6 | | | | |
| Gasoline Tank - Hydrotest | 3.7 | | | | | | | | | | | | | 3.7 | | | |
| Gasoline Tank - External Roof Construction | 8.0 | | | | | | | | | | | | | | 8.0 | | |
| Gasoline Tank - Internal Blasting and Coating | 9.1 | | | | | | | | | | | | | | | 9.1 | |
| Gasoline Tank - External Blasting and Coating | 5.9 | | | | | | | | | | | | | | | | 5.9 |
| Total | | 39.3 | 58.1 | 58.1 | 34.3 | 34.3 | 34.3 | 34.3 | 20.3 | 20.3 | 10.5 | 23.1 | 10.5 | 3.7 | 8.0 | 9.1 | 5.9 |

Note: Totals may not match sum of individual values because of rounding.

Table 9
Daily PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 1.0 | 1.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 1.1 | | 1.1 | 1.1 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 2.4 | | | | 2.4 | 2.4 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 4.5 | | | | | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | 2.6 | 2.6 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 1.1 | | 1.1 | 1.1 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 2.4 | | | | 2.4 | 2.4 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 4.5 | | | | | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | 2.6 | 2.6 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 4.5 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | 1.0 | | | |
| Convert Third Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | 1.1 | 1.1 | |
| Convert Third Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | | | | | | | | 2.4 |
| Convert Third Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | | | | | | 4.5 | 4.5 | 4.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | 1.1 | 1.1 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | | | | | | | | 2.4 |
| Convert Fourth Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | | | | | | 4.5 | 4.5 | 4.5 |
| New Loading Lane - Skid Piping Installation | 4.9 | 4.9 | 4.9 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 4.9 | | | 4.9 | 4.9 | 4.9 | 4.9 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 5.2 | | | | | | | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | | | | | |
| New Loading Lane - Paving | 4.7 | | | | | | | | | | | | | 4.7 | 4.7 | 4.7 | 4.7 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 4.1 | | | | | | | | | 4.1 | 4.1 | 4.1 | 4.1 | | | | | |
| Rack Operations Building - Foundations Construction | 5.9 | | | 5.9 | 5.9 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 5.6 | | | | | 5.6 | 5.6 | 5.6 | 5.6 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 4.9 | 4.9 | 4.9 | 4.9 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 5.7 | | | | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | |
| Gasoline Tank - Foundation Level Survey | 1.1 | | | | | | | | | | | | | | | | | 1.1 |
| Gasoline Tank - Tank Shell Erection | 4.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 4.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrottest | 1.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 2.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 6.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 3.8 | | | | | | | | | | | | | | | | | |
| Total | | 24.1 | 29.9 | 35.8 | 39.1 | 30.0 | 34.2 | 34.6 | 25.6 | 24.1 | 24.1 | 24.1 | 20.3 | 15.6 | 20.4 | 21.6 | 21.6 | 14.9 |

Note: Totals may not match sum of individual values because of rounding.

Table 9
Daily PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 2.4 | 2.4 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 4.5 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | 2.6 | 2.6 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 2.4 | 2.4 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 4.5 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | 2.6 | 2.6 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 4.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 4.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 5.2 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 4.7 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 4.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 4.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 4.1 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 5.9 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 5.6 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 4.9 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 5.7 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 1.1 | 1.1 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 4.3 | | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | | | | |
| Gasoline Tank - Piping Installation | 4.9 | | | | | | | | | | | 4.9 | | | | | |
| Gasoline Tank - Hydrotest | 1.9 | | | | | | | | | | | | | 1.9 | | | |
| Gasoline Tank - External Roof Construction | 2.9 | | | | | | | | | | | | | | 2.9 | | |
| Gasoline Tank - Internal Blasting and Coating | 6.7 | | | | | | | | | | | | | | | 6.7 | |
| Gasoline Tank - External Blasting and Coating | 3.8 | | | | | | | | | | | | | | | | 3.8 |
| Total | | 14.9 | 22.4 | 22.4 | 13.3 | 13.3 | 13.3 | 13.3 | 9.6 | 9.6 | 4.3 | 9.2 | 4.3 | 1.9 | 2.9 | 6.7 | 3.8 |

Note: Totals may not match sum of individual values because of rounding.

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert First Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert First Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert First Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert First Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert First Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert First Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert First Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert First Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert First Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert First Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |
| | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert First Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| | | | | | | |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert Second Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |
| | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Second Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert Second Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |
| | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Second Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert Second Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| | | | | | | |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert Second Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Second Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Second Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Second Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |
| | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert Third Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |
| | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Third Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert Third Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |
| | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Third Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert Third Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| | | | | | | |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert Third Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Third Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Third Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Third Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |
| | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert Fourth Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |
| | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert Fourth Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |
| | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| | | | | | | |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert Fourth Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Fourth Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |
| | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Skid Piping Installation | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 3.2 | | | | | |
| New Loading Lane - Skid Piping Installation On-Site Total | 14.1 | 36.5 | 68.2 | 0.1 | 11.1 | 4.2 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| New Loading Lane - Skid Piping Installation Total | 16.1 | 48.3 | 84.3 | 0.1 | 12.6 | 4.9 |
| | | | | | | |
| New Loading Lane - Canopy Structure Installation | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 8.0 | | | | | |
| New Loading Lane - Canopy Structure Installation On-Site Total | 18.9 | 36.5 | 68.2 | 0.1 | 11.1 | 4.2 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| New Loading Lane - Canopy Structure Installation Total | 20.9 | 48.3 | 84.3 | 0.1 | 12.6 | 4.9 |
| | | | | | | |
| New Loading Lane - Rack Piping Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.7 | 0.8 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| New Loading Lane - Rack Piping Modifications On-Site Total | 16.1 | 33.0 | 64.5 | 0.1 | 11.0 | 3.9 |
| Off-Site Motor Vehicle Exhaust | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.0 | 0.0 |
| Off-Site Total | 3.2 | 16.9 | 31.6 | 0.0 | 2.6 | 1.3 |
| New Loading Lane - Rack Piping Modifications Total | 19.3 | 49.9 | 96.1 | 0.1 | 13.6 | 5.2 |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Paving | | | | | | |
| Construction Equipment Exhaust | 4.7 | 16.8 | 21.4 | 0.0 | 1.6 | 1.5 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.1 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.6 | 0.8 |
| Earthwork Fugitive PM | | | | | 0.1 | 0.0 |
| Asphaltic Paving VOC | 0.5 | | | | | |
| Painting VOC | 0.0 | | | | | |
| New Loading Lane - Paving On-Site Total | 5.3 | 17.4 | 22.6 | 0.0 | 8.4 | 2.4 |
| Off-Site Motor Vehicle Exhaust | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.0 |
| Off-Site Total | 5.1 | 24.6 | 54.8 | 0.1 | 4.1 | 2.3 |
| New Loading Lane - Paving Total | 10.5 | 41.9 | 77.4 | 0.1 | 12.5 | 4.7 |
| | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | |
| Construction Equipment Exhaust | 7.6 | 27.6 | 59.8 | 0.1 | 2.8 | 2.6 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.4 | 0.7 |
| Earthwork Fugitive PM | | | | | 1.4 | 0.3 |
| Painting VOC | 0.0 | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction On-Site Total | 7.7 | 27.9 | 60.3 | 0.1 | 10.7 | 3.6 |
| Off-Site Motor Vehicle Exhaust | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.7 | 9.1 | 15.9 | 0.0 | 1.4 | 0.7 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | 9.3 | 37.0 | 76.1 | 0.1 | 12.0 | 4.3 |
| | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 8.0 | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications On-Site Total | 17.8 | 33.3 | 64.8 | 0.1 | 10.8 | 3.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | 19.7 | 45.1 | 81.0 | 0.1 | 12.3 | 4.6 |
| | | | | | | |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|--------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.6 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation On-Site Total | 12.9 | 33.3 | 64.7 | 0.1 | 10.0 | 3.7 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.3 | 9.3 | 8.4 | 0.0 | 1.1 | 0.4 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | 14.3 | 42.5 | 73.1 | 0.1 | 11.0 | 4.1 |
| | | | | | | |
| Rack Operations Building - Foundations Construction | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 9.6 | 1.0 |
| Earthwork Fugitive PM | | | | | 0.9 | 0.2 |
| Painting VOC | 0.0 | | | | | |
| Rack Operations Building - Foundations Construction On-Site Total | 10.9 | 36.6 | 68.6 | 0.1 | 14.1 | 4.6 |
| Off-Site Motor Vehicle Exhaust | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.0 | 0.0 |
| Off-Site Total | 3.2 | 16.9 | 31.6 | 0.0 | 2.6 | 1.3 |
| Rack Operations Building - Foundations Construction Total | 14.1 | 53.6 | 100.2 | 0.1 | 16.7 | 5.9 |
| | | | | | | |
| Rack Operations Building - Demolition and Building Construction | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.5 | 0.8 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.7 | 0.8 |
| Earthwork Fugitive PM | | | | | 0.5 | 0.1 |
| Painting VOC | 8.0 | | | | | |
| Rack Operations Building - Demolition and Building Construction On-Site Total | 18.9 | 36.6 | 68.5 | 0.1 | 11.8 | 4.3 |
| Off-Site Motor Vehicle Exhaust | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.0 | 0.0 |
| Off-Site Total | 3.2 | 16.9 | 31.6 | 0.0 | 2.6 | 1.3 |
| Rack Operations Building - Demolition and Building Construction Total | 22.2 | 53.6 | 100.1 | 0.1 | 14.4 | 5.6 |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|--------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | |
| Construction Equipment Exhaust | 3.6 | 17.2 | 27.0 | 0.0 | 1.7 | 1.6 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 5.9 | 0.7 |
| Earthwork Fugitive PM | | | | | 4.6 | 1.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) On-Site Total | 3.7 | 17.7 | 27.9 | 0.0 | 12.2 | 3.2 |
| Off-Site Motor Vehicle Exhaust | 3.9 | 19.5 | 39.3 | 0.1 | 1.9 | 1.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.2 | 0.0 |
| Off-Site Total | 3.9 | 19.5 | 39.3 | 0.1 | 3.1 | 1.7 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | 7.6 | 37.2 | 67.2 | 0.1 | 15.4 | 4.9 |
| Gasoline Tank - Foundation Construction | | | | | | |
| Construction Equipment Exhaust | 4.7 | 18.6 | 48.5 | 0.1 | 2.0 | 1.8 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 4.4 | 0.6 |
| Earthwork Fugitive PM | | | | | 4.7 | 1.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Foundation Construction On-Site Total | 4.9 | 19.2 | 49.6 | 0.1 | 11.1 | 3.4 |
| Off-Site Motor Vehicle Exhaust | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.0 |
| Off-Site Total | 5.1 | 24.6 | 54.8 | 0.1 | 4.1 | 2.3 |
| Gasoline Tank - Foundation Construction Total | 10.0 | 43.8 | 104.4 | 0.1 | 15.3 | 5.7 |
| Gasoline Tank - Foundation Level Survey | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.4 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 4.0 | 0.4 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Foundation Level Survey On-Site Total | 0.0 | 0.3 | 0.4 | 0.0 | 4.0 | 0.4 |
| Off-Site Motor Vehicle Exhaust | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.7 | 9.1 | 15.9 | 0.0 | 1.4 | 0.7 |
| Gasoline Tank - Foundation Level Survey Total | 1.7 | 9.4 | 16.3 | 0.0 | 5.4 | 1.1 |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Tank Shell Erection | | | | | | |
| Construction Equipment Exhaust | 3.5 | 15.2 | 37.7 | 0.0 | 1.5 | 1.4 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 4.8 | 0.6 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Tank Shell Erection On-Site Total | 3.6 | 15.8 | 38.9 | 0.0 | 6.3 | 2.0 |
| Off-Site Motor Vehicle Exhaust | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.0 |
| Off-Site Total | 5.1 | 24.6 | 54.8 | 0.1 | 4.1 | 2.3 |
| Gasoline Tank - Tank Shell Erection Total | 8.8 | 40.4 | 93.7 | 0.1 | 10.5 | 4.3 |
| | | | | | | |
| Gasoline Tank - Piping Installation | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 6.4 | | | | | |
| Gasoline Tank - Piping Installation On-Site Total | 17.3 | 36.5 | 68.2 | 0.1 | 11.1 | 4.2 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Gasoline Tank - Piping Installation Total | 19.3 | 48.3 | 84.3 | 0.1 | 12.6 | 4.9 |
| | | | | | | |
| Gasoline Tank - Hydrotest | | | | | | |
| Construction Equipment Exhaust | 3.5 | 15.2 | 37.7 | 0.0 | 1.5 | 1.4 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.1 | 0.1 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Hydrotest On-Site Total | 3.6 | 15.5 | 37.9 | 0.0 | 2.6 | 1.5 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.3 | 9.3 | 8.4 | 0.0 | 1.1 | 0.4 |
| Gasoline Tank - Hydrotest Total | 4.9 | 24.7 | 46.3 | 0.1 | 3.7 | 1.9 |

Table 10
Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|--------------|------------|------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - External Roof Construction | | | | | | |
| Construction Equipment Exhaust | 2.2 | 6.2 | 22.9 | 0.0 | 0.8 | 0.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 4.1 | 0.5 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - External Roof Construction On-Site Total | 2.3 | 6.6 | 23.8 | 0.0 | 4.9 | 1.2 |
| Off-Site Motor Vehicle Exhaust | 3.9 | 19.5 | 39.3 | 0.1 | 1.9 | 1.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.2 | 0.0 |
| Off-Site Total | 3.9 | 19.5 | 39.3 | 0.1 | 3.1 | 1.7 |
| Gasoline Tank - External Roof Construction Total | 6.1 | 26.1 | 63.1 | 0.1 | 8.0 | 2.9 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | |
| Construction Equipment Exhaust | 16.7 | 63.0 | 193.1 | 0.2 | 6.4 | 5.9 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.1 | 0.1 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 35.9 | | | | | |
| Gasoline Tank - Internal Blasting and Coating On-Site Total | 52.6 | 63.3 | 193.4 | 0.2 | 7.5 | 6.0 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Gasoline Tank - Internal Blasting and Coating Total | 54.6 | 75.1 | 209.6 | 0.3 | 9.1 | 6.7 |
| Gasoline Tank - External Blasting and Coating | | | | | | |
| Construction Equipment Exhaust | 8.3 | 31.5 | 96.5 | 0.1 | 3.2 | 2.9 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.1 | 0.1 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 19.2 | | | | | |
| Gasoline Tank - External Blasting and Coating On-Site Total | 27.6 | 31.8 | 96.9 | 0.1 | 4.3 | 3.1 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Gasoline Tank - External Blasting and Coating Total | 29.5 | 43.6 | 113.0 | 0.2 | 5.9 | 3.8 |

Note: Totals may not match sum of individual values because of rounding.

**Table 11
Daily Construction Equipment Exhaust Emissions by Construction Phase**

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | | | | | | |
| | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 0.1498 | 0.7431 | 1.3164 | 0.0016 | 0.0664 | 0.0611 | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | | | | | | | | | |
| | | | | | | | | | | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Vacuum System | 210 | 1 | 10 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 1.5 | 5.4 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | | | | | | | | | |
| | | | | | | | | | | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | | | | | | | | | |
| | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 125 kW Generator | 175 | 1 | 10 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 1.5 | 7.4 | 13.1 | 0.0 | 0.6 | 0.6 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | | | | | | | | | |
| | | | | | | | | | | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | | | | | | |
| | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | | | | | | |
| | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 0.1498 | 0.7431 | 1.3164 | 0.0016 | 0.0664 | 0.0611 | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | | | | | | | | | |
| | | | | | | | | | | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |

**Table 11
Daily Construction Equipment Exhaust Emissions by Construction Phase**

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Vacuum System | 210 | 1 | 10 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 1.5 | 5.4 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | | | | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 125 kW Generator | 175 | 1 | 10 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 1.5 | 7.4 | 13.1 | 0.0 | 0.6 | 0.6 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | | | | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 0.1498 | 0.7431 | 1.3164 | 0.0016 | 0.0664 | 0.0611 | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Vacuum System | 210 | 1 | 10 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 1.5 | 5.4 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | | | | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |

**Table 11
Daily Construction Equipment Exhaust Emissions by Construction Phase**

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 125 kW Generator | 175 | 1 | 10 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 1.5 | 7.4 | 13.1 | 0.0 | 0.6 | 0.6 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | | | | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 0.1498 | 0.7431 | 1.3164 | 0.0016 | 0.0664 | 0.0611 | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Vacuum System | 210 | 1 | 10 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 1.5 | 5.4 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | | | | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |

**Table 11
Daily Construction Equipment Exhaust Emissions by Construction Phase**

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 125 kW Generator | 175 | 1 | 10 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 1.5 | 7.4 | 13.1 | 0.0 | 0.6 | 0.6 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | | | | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| New Loading Lane - Skid Piping Installation | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | | | | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | | | | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |

**Table 11
Daily Construction Equipment Exhaust Emissions by Construction Phase**

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|---|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Paving | | | | | | | | | | | | | | | |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| Paving Machine | 45 | 1 | 10 | 0.1451 | 0.3680 | 0.3038 | 0.0004 | 0.0327 | 0.0301 | 1.5 | 3.7 | 3.0 | 0.0 | 0.3 | 0.3 |
| New Loading Lane - Paving Total | | | | | | | | | | 4.7 | 16.8 | 21.4 | 0.0 | 1.6 | 1.5 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | | | | 7.6 | 27.6 | 59.8 | 0.1 | 2.8 | 2.6 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Rack Operations Building - Foundations Construction | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| Rack Operations Building - Foundations Construction Total | | | | | | | | | | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |

**Table 11
Daily Construction Equipment Exhaust Emissions by Construction Phase**

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|---|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | | | | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | | | | | | | | |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Grader | 158 | 1 | 10 | 0.1554 | 0.7363 | 1.1931 | 0.0014 | 0.0688 | 0.0633 | 1.6 | 7.4 | 11.9 | 0.0 | 0.7 | 0.6 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | | | | 3.6 | 17.2 | 27.0 | 0.0 | 1.7 | 1.6 |
| Gasoline Tank - Foundation Construction | | | | | | | | | | | | | | | |
| Excavator | 222 | 1 | 10 | 0.1301 | 0.3630 | 1.2438 | 0.0018 | 0.0415 | 0.0382 | 1.3 | 3.6 | 12.4 | 0.0 | 0.4 | 0.4 |
| Backhoe | 84 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Skip Loader | 75 | 1 | 10 | 0.0482 | 0.2769 | 0.3536 | 0.0005 | 0.0286 | 0.0263 | 0.5 | 2.8 | 3.5 | 0.0 | 0.3 | 0.3 |
| Concrete Pump | 400 | 1 | 10 | 0.2089 | 0.8032 | 2.6861 | 0.0034 | 0.0803 | 0.0739 | 2.1 | 8.0 | 26.9 | 0.0 | 0.8 | 0.7 |
| Concrete Vibrator | 2 | 1 | 10 | 0.0118 | 0.0617 | 0.0737 | 0.0002 | 0.0028 | 0.0026 | 0.1 | 0.6 | 0.7 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | | | | 4.7 | 18.6 | 48.5 | 0.1 | 2.0 | 1.8 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | | | | | | | | |
| Crane | 160 | 1 | 10 | 0.1089 | 0.4838 | 0.8259 | 0.0009 | 0.0479 | 0.0441 | 1.1 | 4.8 | 8.3 | 0.0 | 0.5 | 0.4 |
| 225 Amp. Generator | 370 | 1 | 10 | 0.1952 | 0.7617 | 2.5896 | 0.0033 | 0.0756 | 0.0696 | 2.0 | 7.6 | 25.9 | 0.0 | 0.8 | 0.7 |
| Bobcat | 56 | 1 | 10 | 0.0482 | 0.2769 | 0.3536 | 0.0005 | 0.0286 | 0.0263 | 0.5 | 2.8 | 3.5 | 0.0 | 0.3 | 0.3 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | | | | 3.5 | 15.2 | 37.7 | 0.0 | 1.5 | 1.4 |
| Gasoline Tank - Piping Installation | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| Gasoline Tank - Piping Installation Total | | | | | | | | | | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |

**Table 11
Daily Construction Equipment Exhaust Emissions by Construction Phase**

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|--------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Hydrotest | | | | | | | | | | | | | | | |
| Crane | 160 | 1 | 10 | 0.1089 | 0.4838 | 0.8259 | 0.0009 | 0.0479 | 0.0441 | 1.1 | 4.8 | 8.3 | 0.0 | 0.5 | 0.4 |
| 225 Amp. Generator | 370 | 1 | 10 | 0.1952 | 0.7617 | 2.5896 | 0.0033 | 0.0756 | 0.0696 | 2.0 | 7.6 | 25.9 | 0.0 | 0.8 | 0.7 |
| Bobcat | 56 | 1 | 10 | 0.0482 | 0.2769 | 0.3536 | 0.0005 | 0.0286 | 0.0263 | 0.5 | 2.8 | 3.5 | 0.0 | 0.3 | 0.3 |
| Gasoline Tank - Hydrotest Total | | | | | | | | | | 3.5 | 15.2 | 37.7 | 0.0 | 1.5 | 1.4 |
| Gasoline Tank - External Roof Construction | | | | | | | | | | | | | | | |
| 50 Ton Crane | 250 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| 90 psig Compressor | 180 | 1 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 1.1 | 3.1 | 12.2 | 0.0 | 0.4 | 0.3 |
| Gasoline Tank - External Roof Construction Total | | | | | | | | | | 2.2 | 6.2 | 22.9 | 0.0 | 0.8 | 0.7 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | | | | | | | | |
| 825 psig Compressor | 250 | 2 | 20 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 4.3 | 12.2 | 48.8 | 0.1 | 1.5 | 1.4 |
| 200 kW generator | 275 | 1 | 20 | 0.1952 | 0.7617 | 2.5896 | 0.0033 | 0.0756 | 0.0696 | 3.9 | 15.2 | 51.8 | 0.1 | 1.5 | 1.4 |
| 125 kW generator | 175 | 1 | 20 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 2.9 | 14.8 | 26.3 | 0.0 | 1.3 | 1.2 |
| 80 ft. Manlift | 125 | 1 | 20 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 2.6 | 9.9 | 33.1 | 0.0 | 1.0 | 0.9 |
| Vacuum System | 210 | 1 | 20 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 3.0 | 10.9 | 33.1 | 0.0 | 1.1 | 1.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | | | | 16.7 | 63.0 | 193.1 | 0.2 | 6.4 | 5.9 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | | | | | | | | |
| 825 psig Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 200 kW generator | 275 | 1 | 10 | 0.1952 | 0.7617 | 2.5896 | 0.0033 | 0.0756 | 0.0696 | 2.0 | 7.6 | 25.9 | 0.0 | 0.8 | 0.7 |
| 125 kW generator | 175 | 1 | 10 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 1.5 | 7.4 | 13.1 | 0.0 | 0.6 | 0.6 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Vacuum System | 210 | 1 | 10 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 1.5 | 5.4 | 16.6 | 0.0 | 0.5 | 0.5 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | | | | 8.3 | 31.5 | 96.5 | 0.1 | 3.2 | 2.9 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for construction equipment in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/offroad/offroad.html>

^b Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction= 0.920

From Appendix A, Final-Methodology to Calculate Particulate Matter (PM) 2.5

and PM 2.5 Significance Thresholds, SCAQMD, October 2006,

http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html

^c Daily Emissions [lb/day] = Emission factor [lb/hr] x Number x Daily operating time [hr/day]

**Table 12
Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|---|-------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | | | | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | | | | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |

**Table 12
Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|--|-------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | | | | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | | | | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |

**Table 12
Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|---|-------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | | | | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | | | | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |

**Table 12
Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|--|-------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | | | | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | | | | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |

**Table 12
Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|--|-------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Skid Piping Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | | | | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Paving | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.4 | 1.1 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Paving Total | | | | | | | | | | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.1 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | | | | 0.1 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 |

**Table 12
Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|---|-------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | | | | 0.1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| Rack Operations Building - Foundations Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Heavy Duty | 3 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rack Operations Building - Foundations Construction Total | | | | | | | | | | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | | | | 0.1 | 0.5 | 0.8 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.3 | 0.8 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | | | | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |

**Table 12
Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|--|-------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Foundation Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.4 | 1.1 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 1 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | | | | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.0 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | | | | 0.0 | 0.3 | 0.4 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.4 | 1.1 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | | | | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.0 |
| Gasoline Tank - Piping Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Piping Installation Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Hydrotest | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | | | | | | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - External Roof Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.3 | 0.8 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | | | | | | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |

**Table 12
Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|--|------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for on-road motor vehicles in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html>

^b Daily Emissions [lb/day] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/vehicle-day]

Table 13
Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|--|------------|-----|------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | | | | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | | | | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |

Table 13
Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|--|------------|-----|------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | | | | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |

Table 13
Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh- Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|--|------------|-----|----------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | | | | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Skid Piping Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 2.5 | 10.2 | 30.9 | 0.0 | 1.5 | 1.3 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | | | | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |

Table 13
Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|---|------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Paving | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 4.4 | 17.9 | 54.1 | 0.1 | 2.6 | 2.3 |
| New Loading Lane - Paving Total | | | | | | | | | | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | | | | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | | | | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Rack Operations Building - Foundations Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 2.5 | 10.2 | 30.9 | 0.0 | 1.5 | 1.3 |
| Rack Operations Building - Foundations Construction Total | | | | | | | | | | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 2.5 | 10.2 | 30.9 | 0.0 | 1.5 | 1.3 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | | | | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 3.2 | 12.8 | 38.7 | 0.1 | 1.9 | 1.6 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | | | | 3.9 | 19.5 | 39.3 | 0.1 | 1.9 | 1.7 |
| Gasoline Tank - Foundation Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 4.4 | 17.9 | 54.1 | 0.1 | 2.6 | 2.3 |
| Gasoline Tank - Foundation Construction Total | | | | | | | | | | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | | | | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |

Table 13
Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|--|------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 4.4 | 17.9 | 54.1 | 0.1 | 2.6 | 2.3 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | | | | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Gasoline Tank - Piping Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Gasoline Tank - Piping Installation Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Gasoline Tank - Hydrotest | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Gasoline Tank - Hydrotest Total | | | | | | | | | | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Gasoline Tank - External Roof Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 3.2 | 12.8 | 38.7 | 0.1 | 1.9 | 1.6 |
| Gasoline Tank - External Roof Construction Total | | | | | | | | | | 3.9 | 19.5 | 39.3 | 0.1 | 1.9 | 1.7 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for on-road motor vehicles in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html>

^b Daily Emissions [lb/day] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/vehicle-day]

Table 14
Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^e | |
|---|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | | | 4.6 | 0.5 | | 2.2 | 0.2 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | | | 2.3 | 0.3 | | 1.4 | 0.2 |

Table 14
Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^e | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | | | 4.6 | 0.5 | | 2.2 | 0.2 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | | | 2.3 | 0.3 | | 1.4 | 0.2 |

**Table 14
Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^e | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|-----------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 7.24E-01 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | | | 4.6 | 0.5 | | 2.2 | 0.2 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | | | 2.3 | 0.3 | | 1.4 | 0.2 |

Table 14
Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^e | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | | | 4.6 | 0.5 | | 2.2 | 0.2 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | | | 2.3 | 0.3 | | 1.4 | 0.2 |

Table 14
Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^e | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| New Loading Lane - Skid Piping Installation | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 1.4 | 0.2 | 0.0 | 1.4 | 0.2 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | | | 15.9 | 1.6 | | 7.7 | 0.8 |
| New Loading Lane - Paving | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 2.4 | 0.4 | 0.0 | 2.4 | 0.4 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| New Loading Lane - Paving Total | | | | | | | | | 12.0 | 1.3 | | 6.6 | 0.8 |

Table 14
Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^e | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | | | 14.0 | 1.4 | | 6.4 | 0.7 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | | | 14.8 | 1.5 | | 6.6 | 0.7 |
| Rack Operations Building - Foundations Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 1.4 | 0.2 | 0.0 | 1.4 | 0.2 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Heavy Duty | 3 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 5.7 | 0.6 | 57.0 | 2.4 | 0.2 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Rack Operations Building - Foundations Construction Total | | | | | | | | | 20.4 | 2.1 | | 9.6 | 1.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 1.4 | 0.2 | 0.0 | 1.4 | 0.2 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | | | 15.9 | 1.6 | | 7.7 | 0.8 |

Table 14
Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^e | |
|---|------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 1.7 | 0.3 | 0.0 | 1.7 | 0.3 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | | | 11.3 | 1.2 | | 5.9 | 0.7 |
| Gasoline Tank - Foundation Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 2.4 | 0.4 | 0.0 | 2.4 | 0.4 |
| Service Truck | Light Duty | 1 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 0.8 | 0.1 | 57.0 | 0.3 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Gasoline Tank - Foundation Construction Total | | | | | | | | | 7.0 | 0.8 | | 4.4 | 0.6 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | | | 8.3 | 0.9 | | 4.0 | 0.4 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 2.4 | 0.4 | 0.0 | 2.4 | 0.4 |
| Service Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | | | 7.8 | 0.9 | | 4.8 | 0.6 |
| Gasoline Tank - Hydrotest | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Gasoline Tank - Hydrotest Total | | | | | | | | | 2.0 | 0.2 | | 1.1 | 0.1 |
| Gasoline Tank - External Roof Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 1.7 | 0.3 | 0.0 | 1.7 | 0.3 |
| Service Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Gasoline Tank - External Roof Construction Total | | | | | | | | | 7.1 | 0.8 | | 4.1 | 0.5 |

Table 14
Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^e | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Gasoline Tank - Piping Installation | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Gasoline Tank - Piping Installation Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 0.8 | 0.1 | 57.0 | 0.3 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | | | 1.5 | 0.2 | | 1.1 | 0.1 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 0.8 | 0.1 | 57.0 | 0.3 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | | | 1.5 | 0.2 | | 1.1 | 0.1 |

Note: Totals may not match sum of individual values because of rounding.

^a Paved road silt loading from ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997) for local roads,

<http://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9.pdf>

Unpaved surface silt content from SCAQMD CEQA Handbook, (1993) Table A9-9-D-1 for city and county roads

^b Equations:

EF (paved) = $k_p (sL/2)^{0.65} (W/3)^{1.5} - C$

Ref: AP-42, Section 13.2.1, "Paved Rods," November 2006

EF (unpaved) = $k_u (s/12)^a (W/3)^b$

Ref: AP-42, Section 13.2.2, "Unpaved Rods," November 2006

Constants:

| | | |
|---------|---------|---|
| k_p = | 0.016 | (Particle size multiplier for PM10) |
| | 0.0024 | (Particle size multiplier for PM2.5) |
| C = | 0.00047 | (Exhaust, brake wear and tire wear adjustment, PM10) |
| | 0.00036 | (Exhaust, brake wear and tire wear adjustment, PM2.5) |
| k_u = | 1.5 | (Particle size multiplier for PM) |
| | 0.15 | (Particle size multiplier for PM2.5) |
| a = | 0.9 | for PM10 |
| | 0.9 | for PM2.5 |
| b = | 0.45 | for PM10 |
| | 0.45 | for PM2.5 |

^c Uncontrolled emissions [lb/day] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/vehicle-day]

^d Control efficiency from limiting speed on unpaved surfaces to 15 mph, from Table XI-A, Mitigation Measure Examples, Fugitive Dust from Construction & Demolition, http://www.aqmd.gov/ceqa/handbook/mitigation/fugitive/MM_fugitive.html

^e Controlled emissions [lb/day] = Uncontrolled emissions [lb/day] x (1 - Control efficiency [%] / 100)

Table 15
Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|---|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | | 0.2 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | | 0.2 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | | 0.4 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | | 0.8 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | | 0.8 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | | 0.8 | 0.0 |

Table 15
Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|--|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | | 0.2 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | | 0.2 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | | 0.4 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | | 0.8 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | | 0.8 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | | 0.8 | 0.0 |

Table 15
Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|---|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | | 0.2 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | | 0.2 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | | 0.4 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | | 0.8 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | | 0.8 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | | 0.8 | 0.0 |

Table 15
Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|--|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | | 0.2 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | | 0.2 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | | 0.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | | 0.8 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | | 0.8 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | | 0.8 | 0.0 |

Table 15
Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|--|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| New Loading Lane - Skid Piping Installation | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | | 0.8 | 0.0 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | | 0.8 | 0.0 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.6 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | | 1.0 | 0.0 |
| New Loading Lane - Paving | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 1.0 | 0.0 |
| New Loading Lane - Paving Total | | | | | | | | 1.4 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | | 0.6 | 0.0 |

Table 15
Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|---|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | | 0.8 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | | 0.6 | 0.0 |
| Rack Operations Building - Foundations Construction | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.6 | 0.0 |
| Rack Operations Building - Foundations Construction Total | | | | | | | | 1.0 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.6 | 0.0 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | | 1.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.7 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | | 1.2 | 0.0 |

Table 15
Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|---|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Gasoline Tank - Foundation Construction | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 1.0 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | | 1.4 | 0.0 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | | 0.6 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 1.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | | 1.4 | 0.0 |
| Gasoline Tank - Piping Installation | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Gasoline Tank - Piping Installation Total | | | | | | | | 0.8 | 0.0 |
| Gasoline Tank - Hydrotest | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | | | | 0.6 | 0.0 |
| Gasoline Tank - External Roof Construction | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.7 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | | | | 1.2 | 0.0 |

Table 15
Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|--|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | | 0.8 | 0.0 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | | 0.8 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a Paved road silt loading from ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997) for collector roads, <http://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9.pdf>

^b Average vehicle weight from from ARB Emission Inventory Methodology 7.9 for Los Angeles County

^c Equations:

$$EF = k_p (sL/2)^{0.65} (W/3)^{1.5} - C$$

Ref: AP-42, Section 13.2.1, "Paved Rods," November 2006

Constants:

$k_p =$ 0.016 (Particle size multiplier for PM10)
0.0024 (Particle size multiplier for PM2.5)
 $C =$ 0.00047 (Exhaust, brake wear and tire wear adjustment, PM10)
0.00036 (Exhaust, brake wear and tire wear adjustment, PM2.5)

^d Emissions [lb/day] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/vehicle-day]

Table 16
Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/activity unit) ^a | | Emissions (lb/day) ^b | |
|---|----------------|----------------|--|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | 0.0 | 0.0 |

Table 16
Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/activity unit) ^a | | Emissions (lb/day) ^b | |
|--|----------------|----------------|--|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | 0.0 | 0.0 |

**Table 16
Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase**

| Activity | Activity Units | Activity Level | Emission Factors (lb/activity unit) ^a | | Emissions (lb/day) ^b | |
|---|----------------|----------------|--|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | 0.0 | 0.0 |

**Table 16
Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase**

| Activity | Activity Units | Activity Level | Emission Factors (lb/activity unit) ^a | | Emissions (lb/day) ^b | |
|--|----------------|----------------|--|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | 0.0 | 0.0 |

Table 16
Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/activity unit) ^a | | Emissions (lb/day) ^b | |
|---|----------------|----------------|--|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| New Loading Lane - Skid Piping Installation | | | | | | |
| Soil Handling | CY/Day | 50 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.023 | 1.72E+01 | 3.57E+00 | 0.4 | 0.1 |
| New Loading Lane - Skid Piping Installation Total | | | | | 0.4 | 0.1 |
| New Loading Lane - Canopy Structure Installation | | | | | | |
| Soil Handling | CY/Day | 50 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.023 | 1.72E+01 | 3.57E+00 | 0.4 | 0.1 |
| New Loading Lane - Canopy Structure Installation Total | | | | | 0.4 | 0.1 |
| New Loading Lane - Rack Piping Modifications | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | 0.0 | 0.0 |
| New Loading Lane - Paving | | | | | | |
| Soil Handling | CY/Day | 50 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.005 | 1.72E+01 | 3.57E+00 | 0.1 | 0.0 |
| New Loading Lane - Paving Total | | | | | 0.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | |
| Soil Handling | CY/Day | 750 | 9.94E-04 | 2.07E-04 | 0.7 | 0.2 |
| Storage Pile Wind Erosion | Acres | 0.037 | 1.72E+01 | 3.57E+00 | 0.6 | 0.1 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | 1.4 | 0.3 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | |
| Soil Handling | CY/Day | 50 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.023 | 1.72E+01 | 3.57E+00 | 0.4 | 0.1 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | 0.4 | 0.1 |

Table 16
Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/activity unit) ^a | | Emissions (lb/day) ^b | |
|---|----------------|----------------|--|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | 0.0 | 0.0 |
| Rack Operations Building - Foundations Construction | | | | | | |
| Soil Handling | CY/Day | 250 | 9.94E-04 | 2.07E-04 | 0.2 | 0.1 |
| Storage Pile Wind Erosion | Acres | 0.037 | 1.72E+01 | 3.57E+00 | 0.6 | 0.1 |
| Rack Operations Building - Foundations Construction Total | | | | | 0.9 | 0.2 |
| Rack Operations Building - Demolition and Building Construction | | | | | | |
| Soil Handling | CY/Day | 100 | 9.94E-04 | 2.07E-04 | 0.1 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.023 | 1.72E+01 | 3.57E+00 | 0.4 | 0.1 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | 0.5 | 0.1 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | |
| Soil Handling | CY/Day | 500 | 9.94E-04 | 2.07E-04 | 0.5 | 0.1 |
| Grading | Hours/day | 10 | 3.48E-01 | 7.23E-02 | 3.5 | 0.7 |
| Storage Pile Wind Erosion | Acres | 0.037 | 1.72E+01 | 3.57E+00 | 0.6 | 0.1 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | 4.6 | 1.0 |
| Gasoline Tank - Foundation Construction | | | | | | |
| Soil Handling | CY/Day | 750 | 9.94E-04 | 2.07E-04 | 0.7 | 0.2 |
| Storage Pile Wind Erosion | Acres | 0.230 | 1.72E+01 | 3.57E+00 | 3.9 | 0.8 |
| Gasoline Tank - Foundation Construction Total | | | | | 4.7 | 1.0 |

Table 16
Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/activity unit) ^a | | Emissions (lb/day) ^b | |
|--|----------------|----------------|--|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Gasoline Tank - Foundation Level Survey | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - Foundation Level Survey Total | | | | | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | 0.0 | 0.0 |
| Gasoline Tank - Piping Installation | | | | | | |
| Soil Handling | CY/Day | 50 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.023 | 1.72E+01 | 3.57E+00 | 0.4 | 0.1 |
| Gasoline Tank - Piping Installation Total | | | | | 0.4 | 0.1 |
| Gasoline Tank - Hydrotest | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | 0.0 | 0.0 |
| Gasoline Tank - External Roof Construction | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | 0.0 | 0.0 |

Table 16
Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/activity unit) ^a | | Emissions (lb/day) ^b | |
|--|----------------|----------------|--|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Gasoline Tank - External Blasting and Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | 0.0 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a From Table 92

^b Emissions [lb/day] = Emission factor [lb/activity unit] x Activity level [activity units]

Table 17
Daily Construction Surface Coating VOC Emissions by Construction Phase

| Construction Phase | Coatings | | | Clean-Up Solvents | | | Total |
|---|---------------------------------------|--------------------------|-------------------------------------|---------------------------------------|------------------------------------|-------------------------------------|------------------------|
| | Emission Factor (lb/gal) ^a | Amount Applied (gal/day) | VOC Emissions (lb/day) ^b | Emission Factor (lb/gal) ^c | Amount Used (gal/day) ^d | VOC Emissions (lb/day) ^b | VOC Emissions (lb/day) |
| Convert First Tank to Ethanol - Draining and Degassing | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Repairs | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Convert First Tank to Ethanol - Internal Coating | 0 | 125 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| Convert Second Tank to Ethanol - Draining and Degassing | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Convert Second Tank to Ethanol - Internal Coating | 0 | 125 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| Convert Third Tank to Ethanol - Draining and Degassing | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Convert Third Tank to Ethanol - Internal Coating | 0 | 125 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Convert Fourth Tank to Ethanol - Internal Coating | 0 | 125 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| New Loading Lane - Skid Piping Installation | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| New Loading Lane - Canopy Structure Installation | 0.835 | 5 | 4.2 | 6.18 | 0.625 | 3.9 | 8.0 |
| New Loading Lane - Rack Piping Modifications | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| New Loading Lane - Paving | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.835 | 5 | 4.2 | 6.18 | 0.625 | 3.9 | 8.0 |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Rack Operations Building - Foundations Construction | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | 0.835 | 5 | 4.2 | 6.18 | 0.625 | 3.9 | 8.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - Foundation Construction | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |

Table 17
Daily Construction Surface Coating VOC Emissions by Construction Phase

| Construction Phase | Coatings | | | Clean-Up Solvents | | | Total |
|---|---------------------------------------|--------------------------|-------------------------------------|---------------------------------------|------------------------------------|-------------------------------------|------------------------|
| | Emission Factor (lb/gal) ^a | Amount Applied (gal/day) | VOC Emissions (lb/day) ^b | Emission Factor (lb/gal) ^c | Amount Used (gal/day) ^d | VOC Emissions (lb/day) ^b | VOC Emissions (lb/day) |
| Gasoline Tank - Foundation Level Survey | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - Piping Installation | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| Gasoline Tank - Hydrotest | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - External Roof Construction | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | 0.835 | 43 | 35.9 | -- | -- | 0.0 | 35.9 |
| Gasoline Tank - External Blasting and Coating | 0.835 | 23 | 19.2 | -- | -- | 0.0 | 19.2 |

^a VOC content limit from SCAQMD Rule 1113 - Architectural Coatings for industrial maintenance coatings, except for new lining

for tank conversion to ethanol, which is a zero VOC coating

^b Emissions [lb/day] = Emission factor [lb/gal] x Amount applied or used [gal/day]

^c From ARB Emission Inventory Methodology 6.3, Architectural Coatings (2003),

<http://www.arb.ca.gov/ei/areasrc/fullpdf/FULL6-3.pdf>

^d Assumed to be one pint clean-up solvent per gallon coating, except for storage tank coating, from ARB Emission Inventory Methodology 6.3, Architectural Coatings (2003),

<http://www.arb.ca.gov/ei/areasrc/fullpdf/FULL6-3.pdf>

**Table 18
Daily Storage Tank Degassing Emissions**

| Item | Value |
|--|-------------|
| Gasoline Vapor Heat Content Calculation | |
| Volume to be degassed (cu. ft.) | 70,280 |
| Gasoline vapor pressure (psia) | 5.27 |
| Gasoline molecular weight (lb/lb-mole) | 66 |
| Gasoline vapor concentration (lb/cu. ft.) ^a | 0.0621 |
| Gasoline vapor mass in tank (lb) ^b | 4,365 |
| Gasoline higher heating value (Btu/lb) | 20,400 |
| Gasoline vapor heat content in tank (MMBtu) ^c | 89.0 |
| CO, NOx and PM10 Emissions Calculation | |
| CO emission factor (lb/MMBtu) ^d | 0.082 |
| NOx emission factor (lb/MMBtu) ^e | 0.15 |
| PM10 emission factor (lb/MMBtu) ^d | 0.0075 |
| CO emissions (lb/day)^{f,g} | 7.3 |
| NOx emissions (lb/day)^{f,g} | 13.4 |
| PM10 emissions (lb/day)^{f,g} | 0.7 |
| VOC Emissions Calculation | |
| VOC exhaust concentration limit (ppmv as hexane) ^h | 50 |
| Methane molecular weight (lb/lb-mole) | 86 |
| VOC exhaust concentration limit (lb/cu. ft.) ⁱ | 1.13E-05 |
| Average exhaust flow rate (scfm) | 1,500 |
| Degassing duration (hrs) | 18 |
| VOC exhaust emissions (lb/day) ^j | 18.3 |
| VOC concentration limit in tank when opened (ppmv as methane) ^k | 5,000 |
| VOC concentration in tank when opened (lb/cu. ft.) ⁱ | 2.10E-04 |
| VOC emissions when tank is opened (lb/day) ^j | 14.8 |
| Total VOC emissions (lb/day)^l | 33.0 |
| CO₂ Emissions Calculation | |
| CO ₂ emission factor (kg/MMBtu) ^m | 70.88 |
| CH ₄ emission factor (kg/MMBtu) ⁿ | 0.003 |
| N ₂ O emission factor (kg/MMBtu) ⁿ | 0.0006 |
| CO ₂ emissions (MT) ^o | 6.3 |
| CH ₄ emissions (MT) ^o | 0.0 |
| N ₂ O emissions (MT) ^o | 0.0 |
| GHG emissions (MT CO₂e)^p | 6.3 |

^a Vapor concentration [lb/cu. ft.] = Vapor pressure [psia] / 14.7 [psia/atm.] x Molecular weight [lb/lb-mole] / 381 [cu. ft./lb-mole]

^b Vapor mass in tank [lb] = Vapor concentration [lb/cu. ft.] x Tank volume [cu. ft.]

^c Vapor heat content in tank [MMBtu] = Vapor mass in tank [lb] x Gasoline higher heating value [Btu/lb] / 1,000,000 [Btu/MMBtu]

^d From AP-42, Table 1.4-1, Section 1.4, "Natural Gas Combustion," 7/98, converted from lb/10⁶ cu. ft. natural gas to lb/MMBtu by dividing by natural gas heating value (1,020 Btu/cu. ft.)

^e Assumed to be the same as NOx emission factor for ethanol loading rack thermal oxidizer

^f Degassing is completed in less than 24 hours

^g Emissions [lb/day] = Emission factor [lb/MMBtu] x Vapor heat content in tank [MMBtu]

^h Limit from SCAQMD Best Available Control Technology (BACT) Determination A/N 384630 for Tank Degassing

ⁱ Concentration [lb/cu. ft.] = Concentration [ppmv] / 10⁶ x Molecular weight [lb/lb-mole] / 381 [cu.ft./lb-mole]

^j Emissions [lb/day] = Exhaust concentration [lb/cu. ft.] x Exhaust flow rate [scfm] x Degassing duration [hrs] x 60 [min/hr]

^k Emissions [lb/day] = Concentration in tank [lb/cu. ft.] x Tank volume [cu. ft.]

^l Limit from SCAQMD Rule 1149 - STORAGE TANK AND PIPELINE CLEANING AND DEGASSING

^m Total emissions [lb/day] = Exhaust emissions [lb/day] + Emissions when tank is opened [lb/day]

ⁿ From Table C.7, California Climate Action Registry Reporting Protocol, Version 3.1, January 2009

^o From Table C.8, California Climate Action Registry Reporting Protocol, Version 3.1, January 2009

^p Emissions [MT] = Emission factor [kg/MMBtu] x Vapor heat content in tank [MMBtu] / 1,000 [kg/MT]

^p Emissions [MT CO₂e] = CO₂ emissions [MT] + 21 x CH₄ emissions [MT] + 310 x N₂O emissions [MT]

**Table 19
Asphaltic Paving VOC Emissions**

| Area Paved (acre/day)^a | Emission Factor (lb/acre)^b | VOC (lb/day)^c |
|--|--|-------------------------------------|
| 0.21 | 2.62 | 0.5 |

^a 9,000 square feet total, all paved in one day

^b From CalEEMod User's Guide, Appendix A,
<http://www.caleemod.com/>

^c Emissions [lb/day] = Emission factor [lb/acre] x Area paved [acre/day]

Table 20
Maximum Daily On-Site Construction Emissions by Construction Area

| Area | CO (lb/day) | NOx (lb/day) | Total PM10 (lb/day) | Exhaust PM10 (lb/day) | Fugitive PM10 (lb/day) | Total PM2.5 (lb/day) | Exhaust PM2.5 (lb/day) | Fugitive PM2.5 (lb/day) |
|----------------------|------------------------|-------------------------|------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|--|
| Tank Conversion Area | 133.25 | 259.32 | 41.25 | 13.40 | 27.85 | 15.22 | 12.32 | 2.90 |
| Ethanol Loading Area | 134.36 | 261.85 | 46.64 | 13.53 | 33.10 | 16.24 | 12.44 | 3.80 |
| Gasoline Tank Area | 63.30 | 193.41 | 17.41 | 5.23 | 12.18 | 6.20 | 4.80 | 1.40 |

**Table 21
Daily On-Site CO Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 7.5 | 7.5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 7.8 | | 7.8 | 7.8 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 17.1 | | | | 17.1 | 17.1 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 33.3 | | | | | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | 18.8 | 18.8 | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 7.5 | 7.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 7.8 | | 7.8 | 7.8 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 17.1 | | | | 17.1 | 17.1 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 33.3 | | | | | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | 18.8 | 18.8 | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 33.3 | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | 7.5 | | | | |
| Convert Third Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | 7.8 | 7.8 | | |
| Convert Third Tank to Ethanol - Lining Removal | 17.1 | | | | | | | | | | | | | | | | | 17.1 |
| Convert Third Tank to Ethanol - Repairs | 33.3 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 33.3 | | | | | | | | | | | | | | 33.3 | 33.3 | 33.3 | 33.3 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | 7.5 | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | 7.8 | 7.8 | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 17.1 | | | | | | | | | | | | | | | | | 17.1 |
| Convert Fourth Tank to Ethanol - Repairs | 33.3 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 33.3 | | | | | | | | | | | | | | 33.3 | 33.3 | 33.3 | 33.3 |
| Tank Conversion Area Total | | 48.2 | 82.2 | 82.2 | 100.7 | 100.7 | 133.2 | 133.2 | 66.6 | 66.6 | 66.6 | 66.6 | 37.5 | 37.5 | 81.6 | 82.2 | 82.2 | 100.7 |
| New Loading Lane - Skid Piping Installation | 36.5 | 36.5 | 36.5 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 36.5 | | | 36.5 | 36.5 | 36.5 | 36.5 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 33.0 | | | | | | | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | | | | | | |
| New Loading Lane - Paving | 17.4 | | | | | | | | | | | | 17.4 | 17.4 | 17.4 | 17.4 | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 33.3 | | | | | | | | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | |
| Rack Operations Building - Foundations Construction | 36.6 | | | 36.6 | 36.6 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 36.6 | | | | | 36.6 | 36.6 | 36.6 | 36.6 | | | | | | | | | |
| Ethanol Loading Area Total | | 97.7 | 97.7 | 134.4 | 134.4 | 73.2 | 73.2 | 69.7 | 69.7 | 66.3 | 66.3 | 66.3 | 66.3 | 17.4 | 17.4 | 17.4 | 17.4 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 17.7 | 17.7 | 17.7 | 17.7 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 19.2 | | | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | |
| Gasoline Tank - Foundation Level Survey | 0.3 | | | | | | | | | | | | | | | | | 0.3 |
| Gasoline Tank - Tank Shell Erection | 15.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 36.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 15.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 6.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 63.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 31.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 17.7 | 17.7 | 17.7 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 0.3 |

Note: Totals may not match sum of individual values because of rounding.

**Table 21
Daily On-Site CO Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-30 | 31-01 | 02-04 | 05-07 | 08-10 |
| Convert First Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 17.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 33.3 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 33.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 17.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 33.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 33.3 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 17.1 | 17.1 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 33.3 | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | 18.8 | 18.8 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 17.1 | 17.1 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 33.3 | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | 18.8 | 18.8 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 100.7 | 133.2 | 133.2 | 66.6 | 66.6 | 66.6 | 66.6 | 37.5 | 37.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 36.5 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 36.5 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 33.0 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 17.4 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 27.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 33.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 33.3 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 36.6 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 36.6 | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 17.7 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 19.2 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.3 | 0.3 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 15.8 | | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | | | | |
| Gasoline Tank - Hydrotest | 15.5 | | | | | | | | | | | | | 15.5 | | | |
| Gasoline Tank - External Roof Construction | 6.6 | | | | | | | | | | | | | | 6.6 | | |
| Gasoline Tank - Internal Blasting and Coating | 63.3 | | | | | | | | | | | | | | | 63.3 | |
| Gasoline Tank - External Blasting and Coating | 31.8 | | | | | | | | | | | | | | | | 31.8 |
| Gasoline Tank Area Total | | 0.3 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.5 | 6.6 | 63.3 | 31.8 |

Note: Totals may not match sum of individual values because of rounding.

**Table 22
Daily On-Site NOx Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 13.5 | 13.5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 13.4 | | 13.4 | 13.4 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 57.8 | | | | 57.8 | 57.8 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 64.8 | | | | | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | 54.4 | 54.4 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 13.5 | 13.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 13.4 | | 13.4 | 13.4 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 57.8 | | | | 57.8 | 57.8 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 64.8 | | | | | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | 54.4 | 54.4 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 64.8 | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | 13.5 | | | |
| Convert Third Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | 13.4 | 13.4 | |
| Convert Third Tank to Ethanol - Lining Removal | 57.8 | | | | | | | | | | | | | | | | | 57.8 |
| Convert Third Tank to Ethanol - Repairs | 64.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 64.8 | | | | | | | | | | | | | | 64.8 | 64.8 | 64.8 | 64.8 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | 13.5 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | 13.4 | 13.4 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 57.8 | | | | | | | | | | | | | | | | | 57.8 |
| Convert Fourth Tank to Ethanol - Repairs | 64.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 64.8 | | | | | | | | | | | | | | 64.8 | 64.8 | 64.8 | 64.8 |
| Tank Conversion Area Total | | 91.7 | 156.4 | 156.4 | 245.3 | 245.3 | 259.3 | 259.3 | 129.7 | 129.7 | 129.7 | 129.7 | 108.8 | 108.8 | 156.6 | 156.4 | 156.4 | 245.3 |
| New Loading Lane - Skid Piping Installation | 68.2 | 68.2 | 68.2 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 68.2 | | | 68.2 | 68.2 | 68.2 | 68.2 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 64.5 | | | | | | | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | | | | | |
| New Loading Lane - Paving | 22.6 | | | | | | | | | | | | | 22.6 | 22.6 | 22.6 | 22.6 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 64.7 | | | | | | | | 64.7 | 64.7 | 64.7 | 64.7 | | | | | | |
| Rack Operations Building - Foundations Construction | 68.6 | | | 68.6 | 68.6 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 68.5 | | | | | 68.5 | 68.5 | 68.5 | 68.5 | | | | | | | | | |
| Ethanol Loading Area Total | | 193.3 | 193.3 | 261.8 | 261.8 | 136.7 | 136.7 | 133.0 | 133.0 | 129.2 | 129.2 | 129.2 | 129.2 | 22.6 | 22.6 | 22.6 | 22.6 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 27.9 | 27.9 | 27.9 | 27.9 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 49.6 | | | | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | |
| Gasoline Tank - Foundation Level Survey | 0.4 | | | | | | | | | | | | | | | | | 0.4 |
| Gasoline Tank - Tank Shell Erection | 38.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 68.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 37.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 23.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 193.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 96.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 27.9 | 27.9 | 27.9 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 0.4 |

Note: Totals may not match sum of individual values because of rounding.

**Table 22
Daily On-Site NOx Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 57.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 64.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 64.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 57.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 64.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 64.8 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 57.8 | 57.8 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 64.8 | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | 54.4 | 54.4 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 57.8 | 57.8 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 64.8 | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | 54.4 | 54.4 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 245.3 | 259.3 | 259.3 | 129.7 | 129.7 | 129.7 | 129.7 | 108.8 | 108.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 68.2 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 68.2 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 64.5 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 22.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 60.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 64.8 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 64.7 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 68.6 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 68.5 | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 27.9 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 49.6 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.4 | 0.4 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 38.9 | | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | | | | | |
| Gasoline Tank - Hydrotest | 37.9 | | | | | | | | | | | | 37.9 | | | | |
| Gasoline Tank - External Roof Construction | 23.8 | | | | | | | | | | | | | 23.8 | | | |
| Gasoline Tank - Internal Blasting and Coating | 193.4 | | | | | | | | | | | | | | | 193.4 | |
| Gasoline Tank - External Blasting and Coating | 96.9 | | | | | | | | | | | | | | | | 96.9 |
| Gasoline Tank Area Total | | 0.4 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 107.0 | 38.9 | 37.9 | 23.8 | 193.4 | 96.9 |

Note: Totals may not match sum of individual values because of rounding.

**Table 23
Daily On-Site PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 2.6 | 2.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.6 | | 2.6 | 2.6 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 4.0 | | | | 4.0 | 4.0 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 10.3 | | | | | | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | 3.3 | 3.3 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2.6 | 2.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.6 | | 2.6 | 2.6 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 4.0 | | | | 4.0 | 4.0 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 10.3 | | | | | | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | 3.3 | 3.3 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 10.3 | | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | 2.6 | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | 2.6 | 2.6 | |
| Convert Third Tank to Ethanol - Lining Removal | 4.0 | | | | | | | | | | | | | | | | | 4.0 |
| Convert Third Tank to Ethanol - Repairs | 10.3 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 10.3 | | | | | | | | | | | | | | 10.3 | 10.3 | 10.3 | 10.3 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | 2.6 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | 2.6 | 2.6 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 4.0 | | | | | | | | | | | | | | | | | 4.0 |
| Convert Fourth Tank to Ethanol - Repairs | 10.3 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 10.3 | | | | | | | | | | | | | | 10.3 | 10.3 | 10.3 | 10.3 |
| Tank Conversion Area Total | | 15.6 | 25.9 | 25.9 | 28.6 | 28.6 | 41.3 | 41.3 | 20.6 | 20.6 | 20.6 | 20.6 | 6.7 | 6.7 | 25.9 | 25.9 | 25.9 | 28.6 |
| New Loading Lane - Skid Piping Installation | 11.1 | 11.1 | 11.1 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 11.1 | | | 11.1 | 11.1 | 11.1 | 11.1 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 11.0 | | | | | | | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | | | | | |
| New Loading Lane - Paving | 8.4 | | | | | | | | | | | | | 8.4 | 8.4 | 8.4 | 8.4 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 10.0 | | | | | | | | 10.0 | 10.0 | 10.0 | 10.0 | | | | | | |
| Rack Operations Building - Foundations Construction | 14.1 | | | 14.1 | 14.1 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 11.8 | | | | | 11.8 | 11.8 | 11.8 | 11.8 | | | | | | | | | |
| Ethanol Loading Area Total | | 32.5 | 32.5 | 46.6 | 46.6 | 22.9 | 22.9 | 22.8 | 22.8 | 20.9 | 20.9 | 20.9 | 20.9 | 8.4 | 8.4 | 8.4 | 8.4 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 12.2 | 12.2 | 12.2 | 12.2 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 11.1 | | | | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | |
| Gasoline Tank - Foundation Level Survey | 4.0 | | | | | | | | | | | | | | | | | 4.0 |
| Gasoline Tank - Tank Shell Erection | 6.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 11.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 2.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 4.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 7.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 4.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 12.2 | 12.2 | 12.2 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 4.0 |

Note: Totals may not match sum of individual values because of rounding.

Table 23
Daily On-Site PM10 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-30 | 31-31 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 4.0 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 10.3 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 10.3 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 4.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 10.3 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 10.3 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 4.0 | 4.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 10.3 | | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | 3.3 | 3.3 | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 4.0 | 4.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 10.3 | | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | 3.3 | 3.3 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 28.6 | 41.3 | 41.3 | 20.6 | 20.6 | 20.6 | 20.6 | 6.7 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 11.1 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 11.1 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 11.0 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 8.4 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 10.7 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 10.8 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 10.0 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 14.1 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 11.8 | | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 12.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 11.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 4.0 | 4.0 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 6.3 | | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | | | | | |
| Gasoline Tank - Hydrotest | 2.6 | | | | | | | | | | | | | 2.6 | | | | |
| Gasoline Tank - External Roof Construction | 4.9 | | | | | | | | | | | | | | 4.9 | | | |
| Gasoline Tank - Internal Blasting and Coating | 7.5 | | | | | | | | | | | | | | | 7.5 | | |
| Gasoline Tank - External Blasting and Coating | 4.3 | | | | | | | | | | | | | | | | | 4.3 |
| Gasoline Tank Area Total | | 4.0 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 17.4 | 6.3 | 2.6 | 4.9 | 7.5 | 4.3 |

Note: Totals may not match sum of individual values because of rounding.

**Table 24
Daily On-Site Exhaust PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.7 | | 0.7 | 0.7 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.8 | | | | 1.8 | 1.8 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.3 | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | 1.9 | 1.9 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.7 | | 0.7 | 0.7 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.8 | | | | 1.8 | 1.8 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.3 | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | 1.9 | 1.9 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.3 | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | 0.0 | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | 0.7 | 0.7 | |
| Convert Third Tank to Ethanol - Lining Removal | 1.8 | | | | | | | | | | | | | | | | | 1.8 |
| Convert Third Tank to Ethanol - Repairs | 3.3 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.3 | | | | | | | | | | | | | | 3.3 | 3.3 | 3.3 | 3.3 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | 0.0 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | 0.7 | 0.7 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.8 | | | | | | | | | | | | | | | | | 1.8 |
| Convert Fourth Tank to Ethanol - Repairs | 3.3 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.3 | | | | | | | | | | | | | | | 3.3 | 3.3 | 3.3 |
| Tank Conversion Area Total | | 3.4 | 8.1 | 8.1 | 10.3 | 10.3 | 13.4 | 13.4 | 6.7 | 6.7 | 6.7 | 6.7 | 3.8 | 3.8 | 6.7 | 8.1 | 8.1 | 10.3 |
| New Loading Lane - Skid Piping Installation | 3.6 | 3.6 | 3.6 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 3.6 | | | 3.6 | 3.6 | 3.6 | 3.6 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.3 | | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | |
| New Loading Lane - Paving | 1.7 | | | | | | | | | | | | | 1.7 | 1.7 | 1.7 | 1.7 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.3 | | | | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | | | | | |
| Rack Operations Building - Foundations Construction | 3.7 | | | 3.7 | 3.7 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 3.7 | | | | | 3.7 | 3.7 | 3.7 | 3.7 | | | | | | | | | |
| Ethanol Loading Area Total | | 9.9 | 9.9 | 13.5 | 13.5 | 7.3 | 7.3 | 7.0 | 7.0 | 6.7 | 6.7 | 6.7 | 6.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.7 | 1.7 | 1.7 | 1.7 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 2.0 | | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |
| Gasoline Tank - Foundation Level Survey | 0.0 | | | | | | | | | | | | | | | | | 0.0 |
| Gasoline Tank - Tank Shell Erection | 1.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 3.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 1.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 0.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 6.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 3.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 1.7 | 1.7 | 1.7 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

**Table 24
Daily On-Site Exhaust PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.3 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.3 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 1.8 | 1.8 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 3.3 | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | 1.9 | 1.9 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.8 | 1.8 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 3.3 | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | 1.9 | 1.9 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 10.3 | 13.4 | 13.4 | 6.7 | 6.7 | 6.7 | 6.7 | 3.8 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 3.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 3.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 1.7 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 2.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.3 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 3.7 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 3.7 | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.7 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 2.0 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.0 | 0.0 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 1.6 | | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | | | | |
| Gasoline Tank - Hydrotest | 1.5 | | | | | | | | | | | | | 1.5 | | | |
| Gasoline Tank - External Roof Construction | 0.8 | | | | | | | | | | | | | | 0.8 | | |
| Gasoline Tank - Internal Blasting and Coating | 6.4 | | | | | | | | | | | | | | | 6.4 | |
| Gasoline Tank - External Blasting and Coating | 3.2 | | | | | | | | | | | | | | | | 3.2 |
| Gasoline Tank Area Total | | 0.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 5.2 | 1.6 | 1.5 | 0.8 | 6.4 |

Note: Totals may not match sum of individual values because of rounding.

**Table 25
Daily On-Site Fugitive PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 2.0 | 2.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.0 | | 2.0 | 2.0 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 2.2 | | | | 2.2 | 2.2 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 7.0 | | | | | | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | 1.4 | 1.4 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2.0 | 2.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.0 | | 2.0 | 2.0 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 2.2 | | | | 2.2 | 2.2 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 7.0 | | | | | | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | 1.4 | 1.4 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 7.0 | | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | 2.0 | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | 2.0 | 2.0 | |
| Convert Third Tank to Ethanol - Lining Removal | 2.2 | | | | | | | | | | | | | | | | | 2.2 |
| Convert Third Tank to Ethanol - Repairs | 7.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 7.0 | | | | | | | | | | | | | | 7.0 | 7.0 | 7.0 | 7.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | 2.0 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | 2.0 | 2.0 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 2.2 | | | | | | | | | | | | | | | | | 2.2 |
| Convert Fourth Tank to Ethanol - Repairs | 7.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 7.0 | | | | | | | | | | | | | | 7.0 | 7.0 | 7.0 | 7.0 |
| Tank Conversion Area Total | | 10.9 | 17.9 | 17.9 | 18.3 | 18.3 | 27.9 | 27.9 | 13.9 | 13.9 | 13.9 | 13.9 | 2.8 | 2.8 | 17.9 | 17.9 | 17.9 | 18.3 |
| New Loading Lane - Skid Piping Installation | 7.4 | 7.4 | 7.4 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 7.4 | | | 7.4 | 7.4 | 7.4 | 7.4 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 7.7 | | | | | | | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | | | | | |
| New Loading Lane - Paving | 6.7 | | | | | | | | | | | | | 6.7 | 6.7 | 6.7 | 6.7 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 6.6 | | | | | | | | | 6.6 | 6.6 | 6.6 | 6.6 | | | | | |
| Rack Operations Building - Foundations Construction | 10.5 | | | 10.5 | 10.5 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 8.1 | | | | | 8.1 | 8.1 | 8.1 | 8.1 | | | | | | | | | |
| Ethanol Loading Area Total | | 22.6 | 22.6 | 33.1 | 33.1 | 15.6 | 15.6 | 15.8 | 15.8 | 14.3 | 14.3 | 14.3 | 14.3 | 6.7 | 6.7 | 6.7 | 6.7 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 10.5 | 10.5 | 10.5 | 10.5 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 9.1 | | | | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | |
| Gasoline Tank - Foundation Level Survey | 4.0 | | | | | | | | | | | | | | | | | 4.0 |
| Gasoline Tank - Tank Shell Erection | 4.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 7.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 1.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 4.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 1.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 1.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 10.5 | 10.5 | 10.5 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 4.0 |

Note: Totals may not match sum of individual values because of rounding.

**Table 25
Daily On-Site Fugitive PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-30 | 31-31 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 2.2 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 7.0 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 7.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 2.2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 7.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 7.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 2.2 | 2.2 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 7.0 | | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | 1.4 | 1.4 | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 2.2 | 2.2 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 7.0 | | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | 1.4 | 1.4 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 18.3 | 27.9 | 27.9 | 13.9 | 13.9 | 13.9 | 13.9 | 2.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 7.4 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 7.4 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 7.7 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 6.7 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 7.8 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 7.4 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 6.6 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 10.5 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 8.1 | | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 10.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 9.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 4.0 | 4.0 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 4.8 | | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | | | | | |
| Gasoline Tank - Hydrotest | 1.1 | | | | | | | | | | | | | 1.1 | | | | |
| Gasoline Tank - External Roof Construction | 4.1 | | | | | | | | | | | | | | 4.1 | | | |
| Gasoline Tank - Internal Blasting and Coating | 1.1 | | | | | | | | | | | | | | | 1.1 | | |
| Gasoline Tank - External Blasting and Coating | 1.1 | | | | | | | | | | | | | | | | | 1.1 |
| Gasoline Tank Area Total | | 4.0 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 12.2 | 4.8 | 1.1 | 4.1 | 1.1 | 1.1 |

Note: Totals may not match sum of individual values because of rounding.

**Table 26
Daily On-Site PM2.5 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.9 | 0.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.8 | | 0.8 | 0.8 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.9 | | | | 1.9 | 1.9 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.8 | | | | | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | 1.9 | 1.9 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.9 | 0.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.8 | | 0.8 | 0.8 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.9 | | | | 1.9 | 1.9 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.8 | | | | | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | 1.9 | 1.9 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.8 | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | 0.9 | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | 0.8 | 0.8 | |
| Convert Third Tank to Ethanol - Lining Removal | 1.9 | | | | | | | | | | | | | | | | | 1.9 |
| Convert Third Tank to Ethanol - Repairs | 3.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.8 | | | | | | | | | | | | | | 3.8 | 3.8 | 3.8 | 3.8 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | 0.9 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | 0.8 | 0.8 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.9 | | | | | | | | | | | | | | | | | 1.9 |
| Convert Fourth Tank to Ethanol - Repairs | 3.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.8 | | | | | | | | | | | | | | | 3.8 | 3.8 | 3.8 |
| Tank Conversion Area Total | | 5.5 | 9.3 | 9.3 | 11.4 | 11.4 | 15.2 | 15.2 | 7.6 | 7.6 | 7.6 | 7.6 | 3.9 | 3.9 | 9.3 | 9.3 | 9.3 | 11.4 |
| New Loading Lane - Skid Piping Installation | 4.2 | 4.2 | 4.2 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 4.2 | | | 4.2 | 4.2 | 4.2 | 4.2 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.9 | | | | | | | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | | | | | |
| New Loading Lane - Paving | 2.4 | | | | | | | | | | | | | 2.4 | 2.4 | 2.4 | 2.4 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.7 | | | | | | | | 3.7 | 3.7 | 3.7 | 3.7 | | | | | | |
| Rack Operations Building - Foundations Construction | 4.6 | | | 4.6 | 4.6 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 4.3 | | | | | 4.3 | 4.3 | 4.3 | 4.3 | | | | | | | | | |
| Ethanol Loading Area Total | | 11.7 | 11.7 | 16.2 | 16.2 | 8.5 | 8.5 | 8.2 | 8.2 | 7.6 | 7.6 | 7.6 | 7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 3.2 | 3.2 | 3.2 | 3.2 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 3.4 | | | | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | |
| Gasoline Tank - Foundation Level Survey | 0.4 | | | | | | | | | | | | | | | | | 0.4 |
| Gasoline Tank - Tank Shell Erection | 2.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 4.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 1.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 1.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 6.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 3.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 3.2 | 3.2 | 3.2 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 0.4 |

Note: Totals may not match sum of individual values because of rounding.

Table 26
Daily On-Site PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-30 | 31-57 | 58-64 | 65-66 | 67-72 | |
| Convert First Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.9 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.8 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.9 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 1.9 | 1.9 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 3.8 | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | 1.93 | 1.93 | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.9 | 1.9 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 3.8 | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | 1.93 | 1.93 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 11.4 | 15.2 | 15.2 | 7.61 | 7.61 | 7.61 | 7.61 | 3.85 | 3.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| New Loading Lane - Skid Piping Installation | 4.2 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 4.2 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.9 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 2.4 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 3.6 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.9 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.7 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 4.6 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 4.3 | | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 3.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 3.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.4 | 0.4 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 2.0 | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | | |
| Gasoline Tank - Hydrotest | 1.5 | | | | | | | | | | | | | 1.5 | | | | |
| Gasoline Tank - External Roof Construction | 1.2 | | | | | | | | | | | | | | 1.2 | | | |
| Gasoline Tank - Internal Blasting and Coating | 6.0 | | | | | | | | | | | | | | | 6.0 | | |
| Gasoline Tank - External Blasting and Coating | 3.1 | | | | | | | | | | | | | | | | 3.1 | |
| Gasoline Tank Area Total | | 0.4 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 6.2 | 2.0 | 1.5 | 1.2 | 6.0 | 3.1 |

Note: Totals may not match sum of individual values because of rounding.

**Table 27
Daily On-Site Exhaust PM2.5 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|-------------|-------------|------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.6 | | 0.6 | 0.6 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.7 | | | | 1.7 | 1.7 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.1 | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | 1.8 | 1.8 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.6 | | 0.6 | 0.6 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.7 | | | | 1.7 | 1.7 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.1 | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | 1.8 | 1.8 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.1 | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | 0.0 | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | 0.6 | 0.6 | |
| Convert Third Tank to Ethanol - Lining Removal | 1.7 | | | | | | | | | | | | | | | | | 1.7 |
| Convert Third Tank to Ethanol - Repairs | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.1 | | | | | | | | | | | | | | 3.1 | 3.1 | 3.1 | 3.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | 0.0 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | 0.6 | 0.6 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.7 | | | | | | | | | | | | | | | | | 1.7 |
| Convert Fourth Tank to Ethanol - Repairs | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.1 | | | | | | | | | | | | | | 3.1 | 3.1 | 3.1 | 3.1 |
| Tank Conversion Area Total | | 3.1 | 7.4 | 7.4 | 9.5 | 9.5 | 12.3 | 12.3 | 6.2 | 6.2 | 6.2 | 6.2 | 3.5 | 3.5 | 6.2 | 7.4 | 7.4 | 9.5 |
| New Loading Lane - Skid Piping Installation | 3.4 | 3.4 | 3.4 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 3.4 | | | 3.4 | 3.4 | 3.4 | 3.4 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.1 | | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | |
| New Loading Lane - Paving | 1.6 | | | | | | | | | | | | | 1.6 | 1.6 | 1.6 | 1.6 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.1 | | | | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | | | | | |
| Rack Operations Building - Foundations Construction | 3.4 | | | 3.4 | 3.4 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 3.4 | | | | | 3.4 | 3.4 | 3.4 | 3.4 | | | | | | | | | |
| Ethanol Loading Area Total | | 9.1 | 9.1 | 12.4 | 12.4 | 6.7 | 6.7 | 6.4 | 6.4 | 6.1 | 6.1 | 6.1 | 6.1 | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.6 | 1.6 | 1.6 | 1.6 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 1.9 | | | | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | |
| Gasoline Tank - Foundation Level Survey | 0.0 | | | | | | | | | | | | | | | | | 0.0 |
| Gasoline Tank - Tank Shell Erection | 1.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 3.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 1.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 0.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 5.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 3.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 1.6 | 1.6 | 1.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

Table 27
Daily On-Site Exhaust PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 | |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.7 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.1 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.7 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 1.7 | 1.7 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 3.1 | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | 1.8 | 1.8 | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.7 | 1.7 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 3.1 | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | 1.8 | 1.8 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 9.5 | 12.3 | 12.3 | 6.2 | 6.2 | 6.2 | 6.2 | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| New Loading Lane - Skid Piping Installation | 3.4 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 3.4 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.1 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 1.6 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 2.6 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.1 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.1 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 3.4 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 3.4 | | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 1.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 1.4 | | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | | | | | |
| Gasoline Tank - Hydrotest | 1.4 | | | | | | | | | | | | | 1.4 | | | | |
| Gasoline Tank - External Roof Construction | 0.7 | | | | | | | | | | | | | | 0.7 | | | |
| Gasoline Tank - Internal Blasting and Coating | 5.9 | | | | | | | | | | | | | | | 5.9 | | |
| Gasoline Tank - External Blasting and Coating | 3.0 | | | | | | | | | | | | | | | | 3.0 | |
| Gasoline Tank Area Total | | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 4.8 | 1.4 | 1.4 | 0.7 | 5.9 | 3.0 |

Note: Totals may not match sum of individual values because of rounding.

**Table 28
Daily On-Site Fugitive PM2.5 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.2 | 0.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.2 | | 0.2 | 0.2 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 0.2 | | | | 0.2 | 0.2 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 0.7 | | | | | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | 0.2 | 0.2 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.2 | 0.2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.2 | | 0.2 | 0.2 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 0.2 | | | | 0.2 | 0.2 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 0.7 | | | | | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | 0.2 | 0.2 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.7 | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | 0.2 | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | 0.2 | 0.2 | |
| Convert Third Tank to Ethanol - Lining Removal | 0.2 | | | | | | | | | | | | | | | | | 0.2 |
| Convert Third Tank to Ethanol - Repairs | 0.7 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.7 | | | | | | | | | | | | | | 0.7 | 0.7 | 0.7 | 0.7 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | 0.2 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | 0.2 | 0.2 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 0.2 | | | | | | | | | | | | | | | | | 0.2 |
| Convert Fourth Tank to Ethanol - Repairs | 0.7 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.7 | | | | | | | | | | | | | | 0.7 | 0.7 | 0.7 | 0.7 |
| Tank Conversion Area Total | | 1.1 | 1.9 | 1.9 | 1.9 | 1.9 | 2.9 | 2.9 | 1.4 | 1.4 | 1.4 | 1.4 | 0.3 | 0.3 | 1.9 | 1.9 | 1.9 | 1.9 |
| New Loading Lane - Skid Piping Installation | 0.8 | 0.8 | 0.8 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 0.8 | | | 0.8 | 0.8 | 0.8 | 0.8 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 0.8 | | | | | | | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | | | | | |
| New Loading Lane - Paving | 0.8 | | | | | | | | | | | | | 0.8 | 0.8 | 0.8 | 0.8 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.7 | | | | | | | | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | |
| Rack Operations Building - Foundations Construction | 1.2 | | | 1.2 | 1.2 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 0.9 | | | | | 0.9 | 0.9 | 0.9 | 0.9 | | | | | | | | | |
| Ethanol Loading Area Total | | 2.6 | 2.6 | 3.8 | 3.8 | 1.7 | 1.7 | 1.8 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.6 | 1.6 | 1.6 | 1.6 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 1.5 | | | | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| Gasoline Tank - Foundation Level Survey | 0.4 | | | | | | | | | | | | | | | | | 0.4 |
| Gasoline Tank - Tank Shell Erection | 0.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 0.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 0.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.4 |

Note: Totals may not match sum of individual values because of rounding.

Table 28
Daily On-Site Fugitive PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-30 | 31-31 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 0.2 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 0.7 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 0.7 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 0.7 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.7 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 0.2 | 0.2 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 0.7 | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | 0.2 | 0.2 | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 0.2 | 0.2 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 0.7 | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | 0.2 | 0.2 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 1.9 | 2.9 | 2.9 | 1.4 | 1.4 | 1.4 | 1.4 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 0.8 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 0.8 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 0.8 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 0.8 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 1.0 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.8 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.7 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 1.2 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 0.9 | | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 1.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.4 | 0.4 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 0.6 | | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | | | | | |
| Gasoline Tank - Hydrotest | 0.1 | | | | | | | | | | | | | 0.1 | | | | |
| Gasoline Tank - External Roof Construction | 0.5 | | | | | | | | | | | | | | 0.5 | | | |
| Gasoline Tank - Internal Blasting and Coating | 0.1 | | | | | | | | | | | | | | | | 0.1 | |
| Gasoline Tank - External Blasting and Coating | 0.1 | | | | | | | | | | | | | | | | | 0.1 |
| Gasoline Tank Area Total | | 0.4 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.4 | 0.6 | 0.1 | 0.5 | 0.1 | 0.1 |

Note: Totals may not match sum of individual values because of rounding.

**Table 29
Construction Greenhouse Gas Emissions Summary**

| Source | Emissions (MT CO₂e) |
|---------------------------------------|---|
| Construction Equipment Exhaust | 2,454.8 |
| On-Site Motor Vehicle Exhaust | 48.5 |
| Thermal Oxidizer | 25.3 |
| Off-Site Motor Vehicle Exhaust | 1,878.3 |
| Water conveyance electrical power use | 29.1 |
| Total | 4,435.9 |

Note: Totals may not match sum of individual values because of rounding.

**Table 30
Construction Greenhouse Gas Emissions by Construction Phase**

| Source | Total Emissions (MT) | | |
|---|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert First Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| Convert First Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert First Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| Convert First Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert First Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |
| Convert First Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert First Tank to Ethanol - Repairs Total | 140 | 0 | 140 |
| Convert First Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert First Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |

**Table 30
Construction Greenhouse Gas Emissions by Construction Phase**

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert First Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert First Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| Convert Second Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert Second Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| Convert Second Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert Second Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |
| Convert Second Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert Second Tank to Ethanol - Repairs Total | 140 | 0 | 140 |

**Table 30
Construction Greenhouse Gas Emissions by Construction Phase**

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert Second Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert Second Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| Convert Third Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert Third Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| Convert Third Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert Third Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |

**Table 30
Construction Greenhouse Gas Emissions by Construction Phase**

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert Third Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert Third Tank to Ethanol - Repairs Total | 140 | 0 | 140 |
| | | | |
| Convert Third Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert Third Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |
| | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| | | | |
| Convert Fourth Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert Fourth Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| | | | |

Table 30
Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert Fourth Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |
| Convert Fourth Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert Fourth Tank to Ethanol - Repairs Total | 140 | 0 | 140 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| New Loading Lane - Skid Piping Installation | | | |
| Construction Equipment Exhaust | 34 | 0 | 34 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| New Loading Lane - Skid Piping Installation Total | 48 | 0 | 48 |

**Table 30
Construction Greenhouse Gas Emissions by Construction Phase**

| Source | Total Emissions (MT) | | |
|---|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| New Loading Lane - Canopy Structure Installation | | | |
| Construction Equipment Exhaust | 67 | 0 | 68 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 28 | 0 | 28 |
| New Loading Lane - Canopy Structure Installation Total | 96 | 0 | 96 |
| | | | |
| New Loading Lane - Rack Piping Modifications | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 70 | 0 | 71 |
| New Loading Lane - Rack Piping Modifications Total | 169 | 0 | 169 |
| | | | |
| New Loading Lane - Paving | | | |
| Construction Equipment Exhaust | 20 | 0 | 20 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 76 | 0 | 76 |
| New Loading Lane - Paving Total | 97 | 0 | 98 |
| | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | |
| Construction Equipment Exhaust | 60 | 0 | 60 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 24 | 0 | 24 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | 85 | 0 | 86 |
| | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | |
| Construction Equipment Exhaust | 64 | 0 | 64 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 28 | 0 | 28 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | 93 | 0 | 93 |
| | | | |

**Table 30
Construction Greenhouse Gas Emissions by Construction Phase**

| Source | Total Emissions (MT) | | |
|---|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| New Loading Lane - Ethanol Pumps Pump Installation | | | |
| Construction Equipment Exhaust | 64 | 0 | 64 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 18 | 0 | 18 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | 83 | 0 | 83 |
| Rack Operations Building - Foundations Construction | | | |
| Construction Equipment Exhaust | 34 | 0 | 34 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 23 | 0 | 24 |
| Rack Operations Building - Foundations Construction Total | 58 | 0 | 58 |
| Rack Operations Building - Demolition and Building Construction | | | |
| Construction Equipment Exhaust | 67 | 0 | 68 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 47 | 0 | 47 |
| Rack Operations Building - Demolition and Building Construction Total | 116 | 0 | 116 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | |
| Construction Equipment Exhaust | 11 | 0 | 11 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | 54 | 0 | 54 |
| Gasoline Tank - Foundation Construction | | | |
| Construction Equipment Exhaust | 179 | 0 | 180 |
| On-Site Motor Vehicle Exhaust | 5 | 0 | 5 |
| Off-Site Motor Vehicle Exhaust | 246 | 0 | 246 |
| Gasoline Tank - Foundation Construction Total | 431 | 0 | 431 |

**Table 30
Construction Greenhouse Gas Emissions by Construction Phase**

| Source | Total Emissions (MT) | | |
|---|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Gasoline Tank - Foundation Level Survey | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 12 | 0 | 12 |
| Gasoline Tank - Foundation Level Survey Total | 13 | 0 | 13 |
| | | | |
| Gasoline Tank - Tank Shell Erection | | | |
| Construction Equipment Exhaust | 334 | 0 | 334 |
| On-Site Motor Vehicle Exhaust | 13 | 0 | 13 |
| Off-Site Motor Vehicle Exhaust | 605 | 0 | 606 |
| Gasoline Tank - Tank Shell Erection Total | 953 | 0 | 954 |
| | | | |
| Gasoline Tank - Piping Installation | | | |
| Construction Equipment Exhaust | 17 | 0 | 17 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Gasoline Tank - Piping Installation Total | 24 | 0 | 24 |
| | | | |
| Gasoline Tank - Hydrotest | | | |
| Construction Equipment Exhaust | 73 | 0 | 73 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 32 | 0 | 32 |
| Water conveyance electrical power use | 29 | 0 | 29 |
| Gasoline Tank - Hydrotest Total | 135 | 0 | 135 |
| | | | |
| Gasoline Tank - External Roof Construction | | | |
| Construction Equipment Exhaust | 39 | 0 | 39 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 99 | 0 | 99 |
| Gasoline Tank - External Roof Construction Total | 140 | 0 | 140 |
| | | | |

**Table 30
Construction Greenhouse Gas Emissions by Construction Phase**

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Gasoline Tank - Internal Blasting and Coating | | | |
| Construction Equipment Exhaust | 77 | 0 | 77 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 10 | 0 | 10 |
| Gasoline Tank - Internal Blasting and Coating Total | 87 | 0 | 87 |
| | | | |
| Gasoline Tank - External Blasting and Coating | | | |
| Construction Equipment Exhaust | 132 | 0 | 132 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 33 | 0 | 33 |
| Gasoline Tank - External Blasting and Coating Total | 166 | 0 | 166 |
| | | | |
| Total Construction Emissions | 4,429 | 0 | 4,436 |

Note: Totals may not match sum of individual values because of rounding.

^a Emissions [MT CO₂e] = CO₂ emissions [MT] + 21 x CH₄ emissions [MT]

**Table 31
Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 10 | 140 | 0.0135 | 6.4 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | 6.4 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 9 | 131 | 0.0096 | 10.7 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 9 | 213 | 0.0115 | 8.7 | 0.0 |
| Vacuum System | 210 | 1 | 10 | 9 | 254 | 0.0137 | 10.4 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | 29.8 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 30 | 180 | 0.0148 | 49.0 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 30 | 112 | 0.0100 | 15.3 | 0.0 |
| Backhoe | 90 | 1 | 10 | 30 | 52 | 0.0069 | 7.0 | 0.0 |
| Loader | 175 | 1 | 10 | 30 | 106 | 0.0118 | 14.5 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 30 | 26 | 0.0097 | 10.6 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | 96.4 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 10 | 131 | 0.0096 | 11.9 | 0.0 |
| 125 kW Generator | 175 | 1 | 10 | 6 | 142 | 0.0132 | 3.9 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 10 | 213 | 0.0115 | 9.7 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | 25.4 | 0.0 |

**Table 31
Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 35 | 180 | 0.0148 | 57.2 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| Backhoe | 90 | 1 | 10 | 35 | 52 | 0.0069 | 8.2 | 0.0 |
| Loader | 175 | 1 | 10 | 35 | 106 | 0.0118 | 16.9 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 35 | 26 | 0.0097 | 12.4 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | 112.4 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 10 | 140 | 0.0135 | 6.4 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | 6.4 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 9 | 131 | 0.0096 | 10.7 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 9 | 213 | 0.0115 | 8.7 | 0.0 |
| Vacuum System | 210 | 1 | 10 | 9 | 254 | 0.0137 | 10.4 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | 29.8 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 30 | 180 | 0.0148 | 49.0 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 30 | 112 | 0.0100 | 15.3 | 0.0 |
| Backhoe | 90 | 1 | 10 | 30 | 52 | 0.0069 | 7.0 | 0.0 |
| Loader | 175 | 1 | 10 | 30 | 106 | 0.0118 | 14.5 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 30 | 26 | 0.0097 | 10.6 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | 96.4 | 0.0 |

**Table 31
Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 10 | 131 | 0.0096 | 11.9 | 0.0 |
| 125 kW Generator | 175 | 1 | 10 | 6 | 142 | 0.0132 | 3.9 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 10 | 213 | 0.0115 | 9.7 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | 25.4 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 35 | 180 | 0.0148 | 57.2 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| Backhoe | 90 | 1 | 10 | 35 | 52 | 0.0069 | 8.2 | 0.0 |
| Loader | 175 | 1 | 10 | 35 | 106 | 0.0118 | 16.9 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 35 | 26 | 0.0097 | 12.4 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | 112.4 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 10 | 140 | 0.0135 | 6.4 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | 6.4 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 9 | 131 | 0.0096 | 10.7 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 9 | 213 | 0.0115 | 8.7 | 0.0 |
| Vacuum System | 210 | 1 | 10 | 9 | 254 | 0.0137 | 10.4 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | 29.8 | 0.0 |

**Table 31
Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 30 | 180 | 0.0148 | 49.0 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 30 | 112 | 0.0100 | 15.3 | 0.0 |
| Backhoe | 90 | 1 | 10 | 30 | 52 | 0.0069 | 7.0 | 0.0 |
| Loader | 175 | 1 | 10 | 30 | 106 | 0.0118 | 14.5 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 30 | 26 | 0.0097 | 10.6 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | 96.4 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 10 | 131 | 0.0096 | 11.9 | 0.0 |
| 125 kW Generator | 175 | 1 | 10 | 6 | 142 | 0.0132 | 3.9 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 10 | 213 | 0.0115 | 9.7 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | 25.4 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 35 | 180 | 0.0148 | 57.2 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| Backhoe | 90 | 1 | 10 | 35 | 52 | 0.0069 | 8.2 | 0.0 |
| Loader | 175 | 1 | 10 | 35 | 106 | 0.0118 | 16.9 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 35 | 26 | 0.0097 | 12.4 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | 112.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 10 | 140 | 0.0135 | 6.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | 6.4 | 0.0 |

**Table 31
Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 9 | 131 | 0.0096 | 10.7 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 9 | 213 | 0.0115 | 8.7 | 0.0 |
| Vacuum System | 210 | 1 | 10 | 9 | 254 | 0.0137 | 10.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | 29.8 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 30 | 180 | 0.0148 | 49.0 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 30 | 112 | 0.0100 | 15.3 | 0.0 |
| Backhoe | 90 | 1 | 10 | 30 | 52 | 0.0069 | 7.0 | 0.0 |
| Loader | 175 | 1 | 10 | 30 | 106 | 0.0118 | 14.5 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 30 | 26 | 0.0097 | 10.6 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | 96.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 10 | 131 | 0.0096 | 11.9 | 0.0 |
| 125 kW Generator | 175 | 1 | 10 | 6 | 142 | 0.0132 | 3.9 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 10 | 213 | 0.0115 | 9.7 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | 25.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 35 | 180 | 0.0148 | 57.2 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| Backhoe | 90 | 1 | 10 | 35 | 52 | 0.0069 | 8.2 | 0.0 |
| Loader | 175 | 1 | 10 | 35 | 106 | 0.0118 | 16.9 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 35 | 26 | 0.0097 | 12.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | 112.4 | 0.0 |

**Table 31
Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Skid Piping Installation | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 10 | 180 | 0.0148 | 16.3 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 10 | 112 | 0.0100 | 5.1 | 0.0 |
| Backhoe | 90 | 1 | 10 | 10 | 52 | 0.0069 | 2.3 | 0.0 |
| Loader | 175 | 1 | 10 | 10 | 106 | 0.0118 | 4.8 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 10 | 26 | 0.0097 | 3.5 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 10 | 34 | 0.0104 | 1.6 | 0.0 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | 33.7 | 0.0 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 20 | 26 | 0.0097 | 7.1 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 20 | 34 | 0.0104 | 3.1 | 0.0 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | 67.4 | 0.0 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 30 | 180 | 0.0148 | 49.0 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 30 | 112 | 0.0100 | 15.3 | 0.0 |
| Backhoe | 90 | 1 | 10 | 30 | 52 | 0.0069 | 7.0 | 0.0 |
| Loader | 175 | 1 | 10 | 30 | 106 | 0.0118 | 14.5 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 30 | 26 | 0.0097 | 10.6 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | 96.4 | 0.0 |

**Table 31
Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Paving | | | | | | | | |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 20 | 34 | 0.0104 | 3.1 | 0.0 |
| Paving Machine | 45 | 1 | 10 | 20 | 28 | 0.0131 | 2.5 | 0.0 |
| New Loading Lane - Paving Total | | | | | | | 20.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 20 | 34 | 0.0104 | 3.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | 60.3 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 20 | 26 | 0.0097 | 7.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | 64.3 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 20 | 26 | 0.0097 | 7.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | 64.3 | 0.0 |

**Table 31
Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Rack Operations Building - Foundations Construction | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 10 | 180 | 0.0148 | 16.3 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 10 | 112 | 0.0100 | 5.1 | 0.0 |
| Backhoe | 90 | 1 | 10 | 10 | 52 | 0.0069 | 2.3 | 0.0 |
| Loader | 175 | 1 | 10 | 10 | 106 | 0.0118 | 4.8 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 10 | 26 | 0.0097 | 3.5 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 10 | 34 | 0.0104 | 1.6 | 0.0 |
| Rack Operations Building - Foundations Construction Total | | | | | | | 33.7 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 20 | 26 | 0.0097 | 7.1 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 20 | 34 | 0.0104 | 3.1 | 0.0 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | 67.4 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | |
| Backhoe | 90 | 1 | 10 | 15 | 52 | 0.0069 | 3.5 | 0.0 |
| Loader | 175 | 1 | 10 | 15 | 106 | 0.0118 | 7.2 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | 10.8 | 0.0 |
| Gasoline Tank - Foundation Construction | | | | | | | | |
| Excavator | 222 | 1 | 10 | 65 | 159 | 0.0117 | 46.8 | 0.0 |
| Backhoe | 84 | 1 | 10 | 65 | 52 | 0.0069 | 15.3 | 0.0 |
| Skip Loader | 75 | 1 | 10 | 65 | 43 | 0.0043 | 12.6 | 0.0 |
| Concrete Pump | 400 | 1 | 10 | 65 | 345 | 0.0188 | 101.8 | 0.0 |
| Concrete Vibrator | 2 | 1 | 10 | 65 | 10 | 0.0011 | 3.0 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | 179.4 | 0.0 |

**Table 31
Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Foundation Level Survey | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | |
| Crane | 160 | 1 | 10 | 160 | 80 | 0.0098 | 58.3 | 0.0 |
| 225 Amp. Generator | 370 | 1 | 10 | 160 | 337 | 0.0176 | 244.5 | 0.0 |
| Bobcat | 56 | 1 | 10 | 160 | 43 | 0.0043 | 31.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | 333.8 | 0.0 |
| Gasoline Tank - Piping Installation | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 5 | 180 | 0.0148 | 8.2 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 5 | 112 | 0.0100 | 2.5 | 0.0 |
| Backhoe | 90 | 1 | 10 | 5 | 52 | 0.0069 | 1.2 | 0.0 |
| Loader | 175 | 1 | 10 | 5 | 106 | 0.0118 | 2.4 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 5 | 26 | 0.0097 | 1.8 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 5 | 34 | 0.0104 | 0.8 | 0.0 |
| Gasoline Tank - Piping Installation Total | | | | | | | 16.8 | 0.0 |
| Gasoline Tank - Hydrotest | | | | | | | | |
| Crane | 160 | 1 | 10 | 35 | 80 | 0.0098 | 12.8 | 0.0 |
| 225 Amp. Generator | 370 | 1 | 10 | 35 | 337 | 0.0176 | 53.5 | 0.0 |
| Bobcat | 56 | 1 | 10 | 35 | 43 | 0.0043 | 6.8 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | | | 73.0 | 0.0 |
| Gasoline Tank - External Roof Construction | | | | | | | | |
| 50 Ton Crane | 250 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| 90 psig Compressor | 180 | 1 | 10 | 35 | 131 | 0.0096 | 20.8 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | | | 38.6 | 0.0 |

**Table 31
Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | |
| 825 psig Compressor | 250 | 2 | 20 | 7 | 131 | 0.0096 | 16.7 | 0.0 |
| 200 kW generator | 275 | 1 | 20 | 7 | 337 | 0.0176 | 21.4 | 0.0 |
| 125 kW generator | 175 | 1 | 20 | 7 | 142 | 0.0132 | 9.0 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 20 | 7 | 213 | 0.0115 | 13.5 | 0.0 |
| Vacuum System | 210 | 1 | 20 | 7 | 254 | 0.0137 | 16.1 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | 76.7 | 0.0 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | |
| 825 psig Compressor | 250 | 2 | 10 | 24 | 131 | 0.0096 | 28.6 | 0.0 |
| 200 kW generator | 275 | 1 | 10 | 24 | 337 | 0.0176 | 36.7 | 0.0 |
| 125 kW generator | 175 | 1 | 10 | 24 | 142 | 0.0132 | 15.5 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 24 | 213 | 0.0115 | 23.2 | 0.0 |
| Vacuum System | 210 | 1 | 10 | 24 | 254 | 0.0137 | 27.7 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | 131.5 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for construction equipment in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/offroad/offroad.html>

^b Total Emissions [MT] = Emission factor [lb/hr] x Number x Daily operating time [hr/day] x Working days [days] x 453.6 g/lb / 1,000,000 [g/MT]

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|---|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | 0.2 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.6 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 30 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | 1.4 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | 0.3 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 35 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | 1.6 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | 0.1 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | 0.2 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.6 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 30 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | 1.4 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | 0.3 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 35 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | 1.6 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|---|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | 0.2 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.6 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 30 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | 1.4 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | 0.3 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 35 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | 1.6 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | 0.1 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | 0.2 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.6 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 30 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | 1.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | 0.3 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 35 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | 1.6 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|---|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Skid Piping Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 10 | 2.77E+00 | 1.07E-04 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | 0.5 | 0.0 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.4 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 20 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | 0.9 | 0.0 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 30 | 4.22E+00 | 1.17E-04 | 1.1 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 30 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | 1.9 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|---|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Paving | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 20 | 4.22E+00 | 1.17E-04 | 1.3 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| New Loading Lane - Paving Total | | | | | | | 1.8 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.4 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | 0.8 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.4 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 20 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | 0.9 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 20 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | 0.7 | 0.0 |
| Rack Operations Building - Foundations Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.4 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Welding Truck | Heavy Duty | 3 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Rack Operations Building - Foundations Construction Total | | | | | | | 0.7 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.8 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 20 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | 1.3 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|---|------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 15 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | 15 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 15 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 15 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 15 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | 1.0 | 0.0 |
| Gasoline Tank - Foundation Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 65 | 1.10E+00 | 7.17E-05 | 0.8 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 65 | 4.22E+00 | 1.17E-04 | 4.4 | 0.0 |
| Service Truck | Light Duty | 1 | 1 | 65 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 65 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 65 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | 5.4 | 0.0 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | 0.3 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 160 | 1.10E+00 | 7.17E-05 | 2.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 160 | 4.22E+00 | 1.17E-04 | 10.7 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 160 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 160 | 4.22E+00 | 1.17E-04 | 0.6 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | 13.5 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Piping Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 5 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 5 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 5 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 5 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 5 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 5 | 2.77E+00 | 1.07E-04 | 0.0 | 0.0 |
| Gasoline Tank - Piping Installation Total | | | | | | | 0.2 | 0.0 |
| Gasoline Tank - Hydrotest | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.3 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | | | 0.8 | 0.0 |
| Gasoline Tank - External Roof Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | 35 | 4.22E+00 | 1.17E-04 | 1.7 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | | | 2.3 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 7 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | 7 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | 0.2 | 0.0 |

**Table 32
On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - External Blasting and Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 24 | 1.10E+00 | 7.17E-05 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 24 | 4.22E+00 | 1.17E-04 | 0.5 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | 24 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | 0.8 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for on-road motor vehicles in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html>

^b Total Emissions [MT] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/day] x Working days [days] x 453.6 g/lb / 1,000,000 [g/MT]

**Table 33
Off-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 1 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 1 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.4 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 10 | 1.10E+00 | 7.17E-05 | 1.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 10 | 4.22E+00 | 1.17E-04 | 1.9 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | 3.7 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 9 | 1.10E+00 | 7.17E-05 | 2.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 9 | 4.22E+00 | 1.17E-04 | 4.3 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | 6.7 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 30 | 1.10E+00 | 7.17E-05 | 13.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 30 | 4.22E+00 | 1.17E-04 | 28.7 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | 41.8 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | 13.9 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 35 | 4.22E+00 | 1.17E-04 | 33.5 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | 48.8 | 0.0 |

**Table 33
Off-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 1 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 1 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.4 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 10 | 1.10E+00 | 7.17E-05 | 1.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 10 | 4.22E+00 | 1.17E-04 | 1.9 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | 3.7 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 9 | 1.10E+00 | 7.17E-05 | 2.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 9 | 4.22E+00 | 1.17E-04 | 4.3 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | 6.7 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 30 | 1.10E+00 | 7.17E-05 | 13.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 30 | 4.22E+00 | 1.17E-04 | 28.7 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | 41.8 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | 13.9 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 35 | 4.22E+00 | 1.17E-04 | 33.5 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | 48.8 | 0.0 |

**Table 33
Off-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 1 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 1 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.4 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 10 | 1.10E+00 | 7.17E-05 | 1.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 10 | 4.22E+00 | 1.17E-04 | 1.9 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | 3.7 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 9 | 1.10E+00 | 7.17E-05 | 2.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 9 | 4.22E+00 | 1.17E-04 | 4.3 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | 6.7 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 30 | 1.10E+00 | 7.17E-05 | 13.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 30 | 4.22E+00 | 1.17E-04 | 28.7 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | 41.8 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | 13.9 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 35 | 4.22E+00 | 1.17E-04 | 33.5 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | 48.8 | 0.0 |

**Table 33
Off-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 1 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 1 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 10 | 1.10E+00 | 7.17E-05 | 1.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 10 | 4.22E+00 | 1.17E-04 | 1.9 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | 3.7 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 9 | 1.10E+00 | 7.17E-05 | 2.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 9 | 4.22E+00 | 1.17E-04 | 4.3 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | 6.7 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 30 | 1.10E+00 | 7.17E-05 | 13.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 30 | 4.22E+00 | 1.17E-04 | 28.7 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | 41.8 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | 13.9 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 35 | 4.22E+00 | 1.17E-04 | 33.5 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | 48.8 | 0.0 |

**Table 33
Off-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Skid Piping Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | 13.9 | 0.0 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 20 | 4.22E+00 | 1.17E-04 | 19.1 | 0.0 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | 27.9 | 0.0 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 30 | 1.10E+00 | 7.17E-05 | 13.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 30 | 4.22E+00 | 1.17E-04 | 57.4 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | 70.5 | 0.0 |
| New Loading Lane - Paving | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 20 | 4.22E+00 | 1.17E-04 | 66.9 | 0.0 |
| New Loading Lane - Paving Total | | | | | | | 75.7 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 20 | 1.10E+00 | 7.17E-05 | 5.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 20 | 4.22E+00 | 1.17E-04 | 19.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | 24.4 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 20 | 4.22E+00 | 1.17E-04 | 19.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | 27.9 | 0.0 |

**Table 33
Off-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 20 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | 18.3 | 0.0 |
| Rack Operations Building - Foundations Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 10 | 4.22E+00 | 1.17E-04 | 19.1 | 0.0 |
| Rack Operations Building - Foundations Construction Total | | | | | | | 23.5 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 20 | 4.22E+00 | 1.17E-04 | 38.2 | 0.0 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | 47.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 15 | 1.10E+00 | 7.17E-05 | 6.6 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 15 | 4.22E+00 | 1.17E-04 | 35.9 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | 42.4 | 0.0 |
| Gasoline Tank - Foundation Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 65 | 1.10E+00 | 7.17E-05 | 28.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 65 | 4.22E+00 | 1.17E-04 | 217.5 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | 245.9 | 0.0 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 10 | 1.10E+00 | 7.17E-05 | 2.6 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | 12.2 | 0.0 |

Table 33
Off-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Tank Shell Erection | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 160 | 1.10E+00 | 7.17E-05 | 70.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 160 | 4.22E+00 | 1.17E-04 | 535.5 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | 605.4 | 0.0 |
| Gasoline Tank - Piping Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 5 | 1.10E+00 | 7.17E-05 | 2.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 5 | 4.22E+00 | 1.17E-04 | 4.8 | 0.0 |
| Gasoline Tank - Piping Installation Total | | | | | | | 7.0 | 0.0 |
| Gasoline Tank - Hydrotest | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 35 | 4.22E+00 | 1.17E-04 | 16.7 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | | | 32.0 | 0.0 |
| Gasoline Tank - External Roof Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 35 | 4.22E+00 | 1.17E-04 | 83.7 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | | | 99.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7 | 1.10E+00 | 7.17E-05 | 3.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 7 | 4.22E+00 | 1.17E-04 | 6.7 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | 9.8 | 0.0 |

**Table 33
Off-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - External Blasting and Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 24 | 1.10E+00 | 7.17E-05 | 10.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 24 | 4.22E+00 | 1.17E-04 | 22.9 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | 33.4 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for on-road motor vehicles in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html>

^b Total Emissions [MT] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/day] x Working days [days] x 453.6 g/lb / 1,000,000 [g/MT]

**Table 34
Hydrotesting Water Conveyance Greenhouse Gas Emissions**

| Item | Value |
|---|--------|
| Total water use (MMgal) | 7.7 |
| Electricity use rate (kWh/MMgal) ^a | 13,022 |
| Total electricity use (MWh) ^b | 100.3 |
| CO ₂ emission factor (lb/MWh) | 640 |
| CH ₄ emission factor (lb/MWh) | 0.0067 |
| N ₂ O emission factor (lb/MWh) | 0.0037 |
| CO ₂ emissions (MT) ^c | 29.1 |
| CH ₄ emissions (MT) ^c | 0.0 |
| N ₂ O emissions (MT) ^c | 0.0 |

^a Refining Estimates of Water-Related Energy Use in California, Table 7, Page 22, California Energy Commission, Final Staff Report, CEC-500-2006-118, December 2006.

http://www.energy.ca.gov/pier/project_reports/CEC-500-2006-118.html

^b Total electricity use [MWh] = Electricity use rate [kWh/MMgal] x Total water use [MMGal] / 1000 kWh/Mw

^c Emissions [MT] = Emission factor [lb/MWh] x Total electricity use [MWh] x 453.6 [g/lb] / 1,000,000 [g/MT]

Table 35
Maximum Daily Construction Workers and Off-Site Construction and Ethanol Tanker Trucks by Construction Month

| Component | Construction Month: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | Construction Weeks: | 1-4 | 5-8 | 9-13 | 14-17 | 18-21 | 22-26 | 27-30 | 31-34 | 35-39 | 40-43 | 44-47 | 48-52 | 53-56 | 57-60 | 61-65 | 66-69 | 70-73 |
| Construction Workers | | | | | | | | | | | | | | | | | | |
| Storage Tank Conversions | | 80 | 100 | 50 | 80 | 100 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Loading Lane | | 65 | 25 | 50 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Building Expansion | | 25 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank | | 25 | 25 | 25 | 25 | 25 | 25 | 60 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Total Construction Workers | | 195 | 175 | 125 | 130 | 125 | 75 | 60 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Off-Site Construction Trucks | | | | | | | | | | | | | | | | | | |
| Storage Tank Conversions | | 30 | 40 | 20 | 30 | 40 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Loading Lane | | 30 | 20 | 35 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Building Expansion | | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank | | 35 | 35 | 35 | 35 | 35 | 35 | 45 | 35 | 35 | 35 | 35 | 35 | 5 | 25 | 25 | 10 | 10 |
| Total Off-Site Construction Trucks | | 115 | 115 | 90 | 100 | 75 | 55 | 45 | 35 | 35 | 35 | 35 | 35 | 5 | 25 | 25 | 10 | 10 |
| Ethanol Tanker Trucks | | | | | | | | | | | | | | | | | | |
| Existing Loading Rack | | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 |
| New Loading Rack | | 0 | 0 | 0 | 0 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Total | | 52 | 52 | 52 | 52 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 |

Table 36
Increase in Hourly Passenger Car Equivalent Trips by Construction Month

| Vehicle Type | Construction Month | | | | | | | | | | | | | | | | |
|-----------------------|--------------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Worker Commute | 195 | 175 | 125 | 130 | 125 | 75 | 60 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Construction Trucks | 48 | 48 | 38 | 42 | 32 | 24 | 20 | 16 | 16 | 16 | 16 | 16 | 4 | 12 | 12 | 6 | 6 |
| Ethanol Tanker Trucks | 8 | 8 | 8 | 8 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Total | 251 | 231 | 171 | 180 | 181 | 123 | 104 | 65 | 65 | 65 | 65 | 65 | 53 | 61 | 61 | 55 | 55 |

**Table 37
Daily Construction Workers by Construction Week**

| Construction Phase | Daily Workers (number/day) | Construction Week | | | | | | | | | | | | | | | | | |
|---|-------------------------------|-------------------|-----------|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| Convert First Tank to Ethanol - Draining and Degassing | 10 | 10 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 10 | | 10 | 10 | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 15 | | | | 15 | 15 | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 25 | | | | | | 25 | 25 | 25 | 25 | 25 | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | 25 | 25 | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 10 | | 10 | 10 | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 15 | | | | 15 | 15 | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 25 | | | | | | 25 | 25 | 25 | 25 | 25 | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | 25 | 25 | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | 10 | | | |
| Convert Third Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | 10 | 10 | |
| Convert Third Tank to Ethanol - Lining Removal | 15 | | | | | | | | | | | | | | | | | 15 | |
| Convert Third Tank to Ethanol - Repairs | 25 | | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | | | | | | | 25 | 25 | 25 | 25 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | 10 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | 10 | 10 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 15 | | | | | | | | | | | | | | | | | 15 | |
| Convert Fourth Tank to Ethanol - Repairs | 25 | | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | | | | | | | 25 | 25 | 25 | 25 |
| New Loading Lane - Skid Piping Installation | 25 | 25 | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 25 | | | 25 | 25 | 25 | 25 | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 25 | | | | | | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | |
| New Loading Lane - Paving | 25 | | | | | | | | | | | | | 25 | 25 | 25 | 25 | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 15 | 15 | 15 | 15 | 15 | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 25 | 25 | 25 | 25 | 25 | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 25 | | | | | | | | | 25 | 25 | 25 | 25 | | | | | | |
| Rack Operations Building - Foundations Construction | 25 | | | 25 | 25 | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 25 | | | | | 25 | 25 | 25 | 25 | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 25 | 25 | 25 | 25 | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 25 | | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | |
| Gasoline Tank - Foundation Level Survey | 15 | | | | | | | | | | | | | | | | | 15 | |
| Gasoline Tank - Tank Shell Erection | 25 | | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 35 | | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 25 | | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 25 | | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 25 | | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 25 | | | | | | | | | | | | | | | | | | |
| Storage Tank Conversions Total | | 35 | 70 | 70 | 80 | 80 | 100 | 100 | 50 | 50 | 50 | 50 | 50 | 50 | 70 | 70 | 70 | 80 | |
| New Loading Lane Total | | 65 | 65 | 65 | 65 | 25 | 25 | 25 | 25 | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 25 | 0 | |
| Operations Building Expansion Total | | 0 | 0 | 25 | 25 | 25 | 25 | 25 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| New Gasoline Storage Tank Total | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 15 | |

Table 37
Daily Construction Workers by Construction Week

| Construction Phase | Daily Workers (number/day) | Construction Week | | | | | | | | | | | | | | | |
|---|-------------------------------|-------------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 15 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 25 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 15 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 25 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 15 | 15 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 25 | | | | | | | | 25 | 25 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 25 | 25 | 25 | 25 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 15 | 15 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 25 | | | | | | | | 25 | 25 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 25 | 25 | 25 | 25 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 15 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 25 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 25 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 25 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 25 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 25 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 15 | 15 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | | | |
| Gasoline Tank - Piping Installation | 35 | | | | | | | | | | | 35 | | | | | |
| Gasoline Tank - Hydrotest | 25 | | | | | | | | | | | | | 25 | | | |
| Gasoline Tank - External Roof Construction | 25 | | | | | | | | | | | | | | 25 | | |
| Gasoline Tank - Internal Blasting and Coating | 25 | | | | | | | | | | | | | | | 25 | |
| Gasoline Tank - External Blasting and Coating | 25 | | | | | | | | | | | | | | | | 25 |
| Storage Tank Conversions Total | | 80 | 100 | 100 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Loading Lane Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Building Expansion Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank Total | | 15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 60 | 25 | 25 | 25 | 25 | 25 |

**Table 38
Daily Off-Site Construction Trucks by Construction Week**

| Construction Phase | Daily Trucks (number/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|------------------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 2 | 2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2 | | 2 | 2 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5 | | | | 5 | 5 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 10 | | | | | | 10 | 10 | 10 | 10 | 10 | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | 10 | 10 | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2 | | 2 | 2 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5 | | | | 5 | 5 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 10 | | | | | | 10 | 10 | 10 | 10 | 10 | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | 10 | 10 | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | 2 | | |
| Convert Third Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | 2 | 2 |
| Convert Third Tank to Ethanol - Lining Removal | 5 | | | | | | | | | | | | | | | | | 5 |
| Convert Third Tank to Ethanol - Repairs | 10 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | | | | | | 10 | 10 | 10 | 10 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | 2 | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | 2 | 2 |
| Convert Fourth Tank to Ethanol - Lining Removal | 5 | | | | | | | | | | | | | | | | | 5 |
| Convert Fourth Tank to Ethanol - Repairs | 10 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | | | | | | 10 | 10 | 10 | 10 |
| New Loading Lane - Skid Piping Installation | 10 | 10 | 10 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 10 | | | 10 | 10 | 10 | 10 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 20 | | | | | | | 20 | 20 | 20 | 20 | 20 | 20 | | | | | |
| New Loading Lane - Paving | 35 | | | | | | | | | | | | | 35 | 35 | 35 | 35 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 5 | | | | | | | | | 5 | 5 | 5 | 5 | | | | | |
| Rack Operations Building - Foundations Construction | 20 | | | 20 | 20 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 20 | | | | | 20 | 20 | 20 | 20 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 25 | 25 | 25 | 25 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 35 | | | | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | |
| Gasoline Tank - Foundation Level Survey | 10 | | | | | | | | | | | | | | | | | 10 |
| Gasoline Tank - Tank Shell Erection | 35 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 10 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 25 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 10 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 10 | | | | | | | | | | | | | | | | | |
| Storage Tank Conversions Total | | 12 | 24 | 24 | 30 | 30 | 40 | 40 | 20 | 20 | 20 | 20 | 20 | 20 | 24 | 24 | 24 | 30 |
| New Loading Lane Total | | 30 | 30 | 30 | 30 | 10 | 10 | 20 | 20 | 25 | 25 | 25 | 35 | 35 | 35 | 35 | 0 | 0 |
| Operations Building Expansion Total | | 0 | 0 | 20 | 20 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank Total | | 25 | 25 | 25 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 10 |

Table 38
Daily Off-Site Construction Trucks by Construction Week

| Construction Phase | Daily Trucks (number/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|------------------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-30 | 31-31 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 10 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 10 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 5 | 5 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 10 | | | | | | | | 10 | 10 | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 5 | 5 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 10 | | | | | | | | 10 | 10 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 10 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 10 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 20 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 35 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 10 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 10 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 5 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 20 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 20 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 25 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 35 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 10 | 10 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 35 | | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | | | | | |
| Gasoline Tank - Hydrotest | 5 | | | | | | | | | | | | | 5 | | | | |
| Gasoline Tank - External Roof Construction | 25 | | | | | | | | | | | | | | | 25 | | |
| Gasoline Tank - Internal Blasting and Coating | 10 | | | | | | | | | | | | | | | | 10 | |
| Gasoline Tank - External Blasting and Coating | 10 | | | | | | | | | | | | | | | | | 10 |
| Storage Tank Conversions Total | | 30 | 40 | 40 | 20 | 20 | 20 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Loading Lane Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Building Expansion Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank Total | | 10 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 45 | 35 | 5 | 25 | 10 | 10 | |

**Table 39
Alternative 2 Construction Schedule**

| Component | Phase | Construction Week | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|-------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|-------|-------|-------|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 | | | | | | |
| Convert First Tank to Ethanol | Draining and Degassing | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Internal Coating | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Manifold Modifications | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol | Draining and Degassing | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Internal Coating | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Manifold Modifications | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol | Draining and Degassing | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | | | | | | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | | | | | | | | | | | | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | |
| | Internal Coating | | | | | | | | | | | | | | | | | X | X | X | X | X | X | | | | | | | | | | | | | | | | | |
| | Manifold Modifications | | | | | | | | | | | | | | | | | X | X | X | X | X | X | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol | Draining and Degassing | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | | | | | | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | | | | | | | | | | | | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | |
| | Internal Coating | | | | | | | | | | | | | | | | | X | X | X | X | X | X | | | | | | | | | | | | | | | | | |
| | Manifold Modifications | | | | | | | | | | | | | | | | | X | X | X | X | X | X | | | | | | | | | | | | | | | | | |
| New Loading Lane | Skid Piping Installation | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Canopy Structure Installation | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rack Piping Modifications | | | | | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Paving | | | | | | | | | | | | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| | Ethanol Pumps Foundations Construction | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ethanol Pumps Manifold Piping Modifications | | | | | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ethanol Pumps Pump Installation | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rack Operations Building | Foundations Construction | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Demolition and Building Construction | | | | | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gasoline Tank | Grading & Site Prep. (Incl. Rack Ops. Bldg.) | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Foundation Construction | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | Foundation Level Survey | | | | | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | Tank Shell Erection | | | | | | | | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | Piping Installation | | | | | | | | | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | Pump Foundation | | | | | | | | | | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | Pump Installation | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | Berm Construction | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | Hydrotest | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | External Roof Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | |
| | Internal Blasting and Coating | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X | |
| | External Blasting and Coating | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | X | X |

Table 40
Alternative 2 Peak Daily Construction Emissions

| Source | Peak Daily Emissions (lb/day) | | | | | |
|------------------------------------|-------------------------------|--------------|--------------|------------|--------------|-------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Construction Equipment Exhaust | 72.8 | 250.0 | 551.6 | 0.7 | 25.6 | 23.6 |
| On-Site Motor Vehicle Exhaust | 0.7 | 4.2 | 5.2 | 0.0 | 0.3 | 0.2 |
| On-Site Motor Vehicle Fugitive PM | | | | | 52.7 | 5.6 |
| Earthwork Fugitive PM | | | | | 7.8 | 1.6 |
| Painting VOC | 28.9 | | | | | |
| Asphaltic Paving VOC | 0.0 | | | | | |
| Degassing Emissions ^a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Total | 102.4 | 254.3 | 556.8 | 0.7 | 86.4 | 31.0 |
| Off-Site Motor Vehicle Exhaust | 22.5 | 133.4 | 188.4 | 0.3 | 9.6 | 8.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 6.9 | 0.0 |
| Off-Site Total | 22.5 | 133.4 | 188.4 | 0.3 | 16.5 | 8.1 |
| Total | 124.9 | 387.7 | 745.2 | 1.0 | 103.0 | 39.1 |

Note: Totals may not match sum of individual values because of rounding.

^a Only one storage tank will be degassed on a single day.

Table 41
Alternative 2 Maximum Daily Construction Emissions during Overlapping Interim Operational Phases

| Interim Operational Phase | Maximum Daily Emissions (lb/day) | | | | | |
|---------------------------|----------------------------------|-------|-------|-----|-------|-------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Phase I (weeks 1-16) | 124.9 | 387.7 | 745.2 | 1.0 | 103.0 | 39.1 |
| Phase II (weeks 17-72) | 94.6 | 314.2 | 630.6 | 0.8 | 90.5 | 34.5 |
| Significance Threshold | 75 | 550 | 100 | 150 | 150 | 55 |
| Significant? | Yes | No | Yes | No | No | No |

Table 42
Alternative 2 Daily VOC Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 33.6 | 33.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.9 | | 2.9 | 2.9 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 7.3 | | | | 7.3 | 7.3 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 14.9 | | | | | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | 6.9 | 6.9 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.9 | | 2.9 | 2.9 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 7.3 | | | | 7.3 | 7.3 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 14.9 | | | | | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | 6.9 | 6.9 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 18.1 | | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | 33.6 | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | 2.9 | 2.9 | |
| Convert Third Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | | | | | | | | 7.3 |
| Convert Third Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | | | | | | 18.1 | 18.1 | 18.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | 2.9 | 2.9 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | | | | | | | | 7.3 |
| Convert Fourth Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | | | | | | | 18.1 | 18.1 |
| New Loading Lane - Skid Piping Installation | 16.1 | 16.1 | 16.1 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 20.9 | | | 20.9 | 20.9 | 20.9 | 20.9 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 19.3 | | | | | | | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | | | | | |
| New Loading Lane - Paving | 10.5 | | | | | | | | | | | | | | 10.5 | 10.5 | 10.5 | 10.5 |
| New Loading Lane - Ethanol Pumps Foundations Construction | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 19.7 | 19.7 | 19.7 | 19.7 | 19.7 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 14.3 | | | | | | | | | 14.3 | 14.3 | 14.3 | 14.3 | | | | | |
| Rack Operations Building - Foundations Construction | 14.1 | | | 14.1 | 14.1 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 22.2 | | | | | 22.2 | 22.2 | 22.2 | 22.2 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 7.6 | 7.6 | 7.6 | 7.6 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 10.0 | | | | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | |
| Gasoline Tank - Foundation Level Survey | 1.7 | | | | | | | | | | | | | | | | | 1.7 |
| Gasoline Tank - Tank Shell Erection | 8.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 19.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 9.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 14.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 13.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 4.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 6.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 54.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 29.5 | | | | | | | | | | | | | | | | | |
| Total | | 104.4 | 94.7 | 113.6 | 124.9 | 103.8 | 119.1 | 117.5 | 81.3 | 73.4 | 73.4 | 73.4 | 57.3 | 34.2 | 90.3 | 62.4 | 62.4 | 52.5 |

Note: Totals may not match sum of individual values because of rounding.

Table 42
Alternative 2 Daily VOC Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 7.3 | 7.3 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 14.9 | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | 6.9 | 6.9 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 7.3 | 7.3 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 14.9 | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | 6.9 | 6.9 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 16.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 20.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 19.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 10.5 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 9.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 19.7 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 14.3 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 14.1 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 22.2 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 7.6 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 10.0 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 1.7 | 1.7 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 8.8 | | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | | | | |
| Gasoline Tank - Piping Installation | 19.3 | | | | | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | | | | |
| Gasoline Tank - Pump Foundation | 9.3 | | | | | | | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | | | | | |
| Gasoline Tank - Pump Installation | 14.3 | | | | | | | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | | | | | |
| Gasoline Tank - Berm Construction | 13.2 | | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | | | | | |
| Gasoline Tank - Hydrotest | 4.9 | | | | | | | | | | | | | 4.9 | | | |
| Gasoline Tank - External Roof Construction | 6.1 | | | | | | | | | | | | | | 6.1 | | |
| Gasoline Tank - Internal Blasting and Coating | 54.6 | | | | | | | | | | | | | | | 54.6 | |
| Gasoline Tank - External Blasting and Coating | 29.5 | | | | | | | | | | | | | | | | 29.5 |
| Total | | 52.5 | 87.9 | 87.9 | 51.7 | 71.0 | 71.0 | 94.6 | 78.5 | 78.5 | 64.8 | 64.8 | 8.8 | 4.9 | 6.1 | 54.6 | 29.5 |

Note: Totals may not match sum of individual values because of rounding.

**Table 43
Alternative 2 Daily CO Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 11.2 | 11.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 17.8 | | 17.8 | 17.8 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 34.9 | | | | 34.9 | 34.9 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 45.1 | | | | | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | 30.6 | 30.6 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 17.8 | | 17.8 | 17.8 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 34.9 | | | | 34.9 | 34.9 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 45.1 | | | | | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | 30.6 | 30.6 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 45.1 | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | 11.2 | | | |
| Convert Third Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | 17.8 | 17.8 | |
| Convert Third Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | | | | | | | | 34.9 |
| Convert Third Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | | | | | | 45.1 | 45.1 | 45.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | 17.8 | 17.8 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | | | | | | | | 34.9 |
| Convert Fourth Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | | | | | | 45.1 | 45.1 | 45.1 |
| New Loading Lane - Skid Piping Installation | 48.3 | 48.3 | 48.3 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 48.3 | | | 48.3 | 48.3 | 48.3 | 48.3 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 49.9 | | | | | | | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | | | | | |
| New Loading Lane - Paving | 41.9 | | | | | | | | | | | | | 41.9 | 41.9 | 41.9 | 41.9 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 42.5 | | | | | | | | | 42.5 | 42.5 | 42.5 | 42.5 | | | | | |
| Rack Operations Building - Foundations Construction | 53.6 | | | 53.6 | 53.6 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 53.6 | | | | | 53.6 | 53.6 | 53.6 | 53.6 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 37.2 | 37.2 | 37.2 | 37.2 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 43.8 | | | | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | |
| Gasoline Tank - Foundation Level Survey | 9.4 | | | | | | | | | | | | | | | | | 9.4 |
| Gasoline Tank - Tank Shell Erection | 40.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 48.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 37.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 42.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 55.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 24.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 26.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 75.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 43.6 | | | | | | | | | | | | | | | | | |
| Total | | 223.9 | 293.6 | 347.1 | 387.7 | 305.6 | 326.1 | 327.7 | 237.5 | 226.4 | 226.4 | 226.4 | 197.3 | 146.8 | 187.1 | 211.6 | 211.6 | 169.3 |

Note: Totals may not match sum of individual values because of rounding.

Table 43
Alternative 2 Daily CO Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 34.9 | 34.9 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 45.1 | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | 30.6 | 30.6 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 34.9 | 34.9 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 45.1 | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | 30.6 | 30.6 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 48.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 48.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 49.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 41.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 37.0 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 45.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 42.5 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 53.6 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 53.6 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 37.2 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 43.8 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 9.4 | 9.4 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 40.4 | | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | | | | |
| Gasoline Tank - Piping Installation | 48.3 | | | | | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 | | | | |
| Gasoline Tank - Pump Foundation | 37.0 | | | | | | | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | | | | |
| Gasoline Tank - Pump Installation | 42.5 | | | | | | | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | | | | |
| Gasoline Tank - Berm Construction | 55.8 | | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | | | | | |
| Gasoline Tank - Hydrotest | 24.7 | | | | | | | | | | | | | 24.7 | | | |
| Gasoline Tank - External Roof Construction | 26.1 | | | | | | | | | | | | | | 26.1 | | |
| Gasoline Tank - Internal Blasting and Coating | 75.1 | | | | | | | | | | | | | | | 75.1 | |
| Gasoline Tank - External Blasting and Coating | 43.6 | | | | | | | | | | | | | | | | 43.6 |
| Total | | 169.3 | 276.6 | 276.6 | 186.4 | 234.7 | 234.7 | 314.2 | 285.1 | 285.1 | 224.0 | 224.0 | 40.4 | 24.7 | 26.1 | 75.1 | 43.6 |

Note: Totals may not match sum of individual values because of rounding.

Table 44
Alternative 2 Daily NOx Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 16.8 | 16.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 20.4 | | 20.4 | 20.4 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 68.6 | | | | 68.6 | 68.6 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 81.0 | | | | | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | 70.5 | 70.5 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 20.4 | | 20.4 | 20.4 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 68.6 | | | | 68.6 | 68.6 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 81.0 | | | | | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | 70.5 | 70.5 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 81.0 | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | 16.8 | |
| Convert Third Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | 20.4 | 20.4 | |
| Convert Third Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | | | | | | | | 68.6 |
| Convert Third Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | | | | | | 81.0 | 81.0 | 81.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | | 20.4 | 20.4 |
| Convert Fourth Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | | | | | | | | 68.6 |
| Convert Fourth Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | | | | | | | 81.0 | 81.0 |
| New Loading Lane - Skid Piping Installation | 84.3 | 84.3 | 84.3 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 84.3 | | | 84.3 | 84.3 | 84.3 | 84.3 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 96.1 | | | | | | | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | | | | | |
| New Loading Lane - Paving | 77.4 | | | | | | | | | | | | | 77.4 | 77.4 | 77.4 | 77.4 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 73.1 | | | | | | | | | | | | 73.1 | 73.1 | 73.1 | 73.1 | | |
| Rack Operations Building - Foundations Construction | 100.2 | | | 100.2 | 100.2 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 100.1 | | | | | 100.1 | 100.1 | 100.1 | 100.1 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 67.2 | 67.2 | 67.2 | 67.2 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 104.4 | | | | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | 104.4 | |
| Gasoline Tank - Foundation Level Survey | 16.3 | | | | | | | | | | | | | | | | | 16.3 |
| Gasoline Tank - Tank Shell Erection | 93.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 84.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 76.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 73.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 141.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 46.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 63.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 209.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 113.0 | | | | | | | | | | | | | | | | | |
| Total | | 406.4 | 511.3 | 611.5 | 745.2 | 588.0 | 612.8 | 624.5 | 462.6 | 435.6 | 435.6 | 435.6 | 414.7 | 323.0 | 360.6 | 384.6 | 384.6 | 315.4 |

Note: Totals may not match sum of individual values because of rounding.

Table 44
Alternative 2 Daily NOx Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|--------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 68.6 | 68.6 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 81.0 | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | 70.5 | 70.5 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 68.6 | 68.6 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 81.0 | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | 70.5 | 70.5 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 84.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 84.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 96.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 77.4 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 76.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 81.0 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 73.1 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 100.2 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 100.1 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 67.2 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 104.4 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 16.3 | 16.3 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 93.7 | | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | | | | |
| Gasoline Tank - Piping Installation | 84.3 | | | | | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | | | | |
| Gasoline Tank - Pump Foundation | 76.1 | | | | | | | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | | | | | |
| Gasoline Tank - Pump Installation | 73.1 | | | | | | | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | | | | | |
| Gasoline Tank - Berm Construction | 141.4 | | 141.4 | 141.4 | 141.4 | 141.4 | 141.4 | 141.4 | 141.4 | 141.4 | 141.4 | 141.4 | | | | | |
| Gasoline Tank - Hydrotest | 46.3 | | | | | | | | | | | | | 46.3 | | | |
| Gasoline Tank - External Roof Construction | 63.1 | | | | | | | | | | | | | | 63.1 | | |
| Gasoline Tank - Internal Blasting and Coating | 209.6 | | | | | | | | | | | | | | | 209.6 | |
| Gasoline Tank - External Blasting and Coating | 113.0 | | | | | | | | | | | | | | | | 113.0 |
| Total | | 315.4 | 559.0 | 559.0 | 397.0 | 481.4 | 481.4 | 630.6 | 609.7 | 609.7 | 468.6 | 468.6 | 93.7 | 46.3 | 63.1 | 209.6 | 113.0 |

Note: Totals may not match sum of individual values because of rounding.

**Table 45
Alternative 2 Daily SOx Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.0 | | 0.0 | 0.0 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 0.1 | | | | 0.1 | 0.1 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 0.1 | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | 0.1 | 0.1 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.0 | | 0.0 | 0.0 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 0.1 | | | | 0.1 | 0.1 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 0.1 | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | 0.1 | 0.1 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | 0.0 | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | 0.0 | 0.0 | | |
| Convert Third Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | | | | | | | | 0.1 |
| Convert Third Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | 0.0 | 0.0 | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | | | | | | | | 0.1 |
| Convert Fourth Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 |
| New Loading Lane - Skid Piping Installation | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 0.1 | | | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 0.1 | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | |
| New Loading Lane - Paving | 0.1 | | | | | | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.1 | | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | | | | | |
| Rack Operations Building - Foundations Construction | 0.1 | | | 0.1 | 0.1 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 0.1 | | | | | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 0.1 | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Gasoline Tank - Foundation Level Survey | 0.0 | | | | | | | | | | | | | | | | | 0.0 |
| Gasoline Tank - Tank Shell Erection | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 0.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 0.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 0.2 | | | | | | | | | | | | | | | | | |
| Total | | 0.5 | 0.7 | 0.8 | 1.0 | 0.8 | 0.8 | 0.8 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 |

Note: Totals may not match sum of individual values because of rounding.

Table 45
Alternative 2 Daily SOx Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 0.1 | 0.1 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | 0.1 | 0.1 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 0.1 | 0.1 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | 0.1 | 0.1 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.1 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 0.1 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 0.1 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 0.1 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 0.1 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.0 | 0.0 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | |
| Gasoline Tank - Piping Installation | 0.1 | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | |
| Gasoline Tank - Pump Foundation | 0.1 | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | |
| Gasoline Tank - Pump Installation | 0.1 | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | |
| Gasoline Tank - Berm Construction | 0.2 | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | | | | | |
| Gasoline Tank - Hydrotest | 0.1 | | | | | | | | | | | | | 0.1 | | | |
| Gasoline Tank - External Roof Construction | 0.1 | | | | | | | | | | | | | | 0.1 | | |
| Gasoline Tank - Internal Blasting and Coating | 0.3 | | | | | | | | | | | | | | | 0.3 | |
| Gasoline Tank - External Blasting and Coating | 0.2 | | | | | | | | | | | | | | | | 0.2 |
| Total | | 0.5 | 0.7 | 0.7 | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.6 | 0.6 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 |

Note: Totals may not match sum of individual values because of rounding.

**Table 46
Alternative 2 Daily PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 3.1 | 3.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 3.3 | | 3.3 | 3.3 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5.1 | | | | 5.1 | 5.1 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 11.9 | | | | | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | 4.9 | 4.9 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 3.3 | | 3.3 | 3.3 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5.1 | | | | 5.1 | 5.1 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 11.9 | | | | | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | 4.9 | 4.9 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 11.9 | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | 3.1 | | | |
| Convert Third Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | 3.3 | 3.3 | |
| Convert Third Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | | | | | | | | 5.1 |
| Convert Third Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | | | | | | 11.9 | 11.9 | 11.9 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | 3.3 | 3.3 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | | | | | | | | 5.1 |
| Convert Fourth Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | | | | | | | 11.9 | 11.9 |
| New Loading Lane - Skid Piping Installation | 12.6 | 12.6 | 12.6 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 12.6 | | | 12.6 | 12.6 | 12.6 | 12.6 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 13.6 | | | | | | | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 | | | | | |
| New Loading Lane - Paving | 12.5 | | | | | | | | | | | | | 12.5 | 12.5 | 12.5 | 12.5 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 11.0 | | | | | | | | | | 11.0 | 11.0 | 11.0 | 11.0 | | | | |
| Rack Operations Building - Foundations Construction | 16.7 | | | 16.7 | 16.7 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 14.4 | | | | | 14.4 | 14.4 | 14.4 | 14.4 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 15.4 | 15.4 | 15.4 | 15.4 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 15.3 | | | | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | |
| Gasoline Tank - Foundation Level Survey | 5.4 | | | | | | | | | | | | | | | | | 5.4 |
| Gasoline Tank - Tank Shell Erection | 10.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 12.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 12.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 11.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 20.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 3.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 8.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 9.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 5.9 | | | | | | | | | | | | | | | | | |
| Total | | 67.3 | 82.7 | 99.5 | 103.0 | 76.3 | 89.9 | 90.9 | 67.1 | 63.7 | 63.7 | 63.7 | 49.8 | 37.7 | 54.7 | 58.2 | 58.2 | 39.3 |

Note: Totals may not match sum of individual values because of rounding.

Table 46
Alternative 2 Daily PM10 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 5.1 | 5.1 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 11.9 | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | 4.9 | 4.9 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 5.1 | 5.1 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 11.9 | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | 4.9 | 4.9 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 12.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 12.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 13.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 12.5 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 12.0 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 12.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 11.0 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 16.7 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 14.4 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 15.4 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 15.3 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 5.4 | 5.4 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 10.5 | | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | | | | |
| Gasoline Tank - Piping Installation | 12.6 | | | | | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | | | | |
| Gasoline Tank - Pump Foundation | 12.0 | | | | | | | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | | | | | |
| Gasoline Tank - Pump Installation | 11.0 | | | | | | | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | | | | | |
| Gasoline Tank - Berm Construction | 20.5 | | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | | | | | |
| Gasoline Tank - Hydrotest | 3.7 | | | | | | | | | | | | | 3.7 | | | |
| Gasoline Tank - External Roof Construction | 8.0 | | | | | | | | | | | | | | 8.0 | | |
| Gasoline Tank - Internal Blasting and Coating | 9.1 | | | | | | | | | | | | | | | 9.1 | |
| Gasoline Tank - External Blasting and Coating | 5.9 | | | | | | | | | | | | | | | | 5.9 |
| Total | | 39.3 | 78.5 | 78.5 | 54.7 | 67.4 | 67.4 | 90.5 | 76.5 | 76.5 | 66.7 | 66.7 | 10.5 | 3.7 | 8.0 | 9.1 | 5.9 |

Note: Totals may not match sum of individual values because of rounding.

**Table 47
Alternative 2 Daily PM2.5 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 1.0 | 1.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 1.1 | | 1.1 | 1.1 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 2.4 | | | | 2.4 | 2.4 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 4.5 | | | | | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | 2.6 | 2.6 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 1.1 | | 1.1 | 1.1 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 2.4 | | | | 2.4 | 2.4 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 4.5 | | | | | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | 2.6 | 2.6 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 4.5 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | 1.0 | | | |
| Convert Third Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | 1.1 | 1.1 | |
| Convert Third Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | | | | | | | | 2.4 |
| Convert Third Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | | | | | 4.5 | 4.5 | 4.5 | 4.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | 1.1 | 1.1 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | | | | | | | | 2.4 |
| Convert Fourth Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | | | | | 4.5 | 4.5 | 4.5 | 4.5 |
| New Loading Lane - Skid Piping Installation | 4.9 | 4.9 | 4.9 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 4.9 | | | 4.9 | 4.9 | 4.9 | 4.9 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 5.2 | | | | | | | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | | | | | |
| New Loading Lane - Paving | 4.7 | | | | | | | | | | | | | 4.7 | 4.7 | 4.7 | 4.7 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 4.1 | | | | | | | | | 4.1 | 4.1 | 4.1 | 4.1 | | | | | |
| Rack Operations Building - Foundations Construction | 5.9 | | | 5.9 | 5.9 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 5.6 | | | | | 5.6 | 5.6 | 5.6 | 5.6 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 4.9 | 4.9 | 4.9 | 4.9 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 5.7 | | | | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | |
| Gasoline Tank - Foundation Level Survey | 1.1 | | | | | | | | | | | | | | | | | 1.1 |
| Gasoline Tank - Tank Shell Erection | 4.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 4.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 4.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 4.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 7.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 1.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 2.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 6.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 3.8 | | | | | | | | | | | | | | | | | |
| Total | | 24.1 | 29.9 | 35.8 | 39.1 | 30.0 | 34.2 | 34.6 | 25.6 | 24.1 | 24.1 | 24.1 | 20.3 | 15.6 | 20.4 | 21.6 | 21.6 | 14.9 |

Note: Totals may not match sum of individual values because of rounding.

Table 47
Alternative 2 Daily PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 2.4 | 2.4 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 4.5 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | 2.6 | 2.6 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 2.4 | 2.4 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 4.5 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | 2.6 | 2.6 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 4.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 4.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 5.2 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 4.7 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 4.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 4.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 4.1 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 5.9 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 5.6 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 4.9 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 5.7 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 1.1 | 1.1 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 4.3 | | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | | | | |
| Gasoline Tank - Piping Installation | 4.9 | | | | | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | | | | |
| Gasoline Tank - Pump Foundation | 4.3 | | | | | | | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | | | | | |
| Gasoline Tank - Pump Installation | 4.1 | | | | | | | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | | | | | |
| Gasoline Tank - Berm Construction | 7.9 | | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | | | | | |
| Gasoline Tank - Hydrotest | 1.9 | | | | | | | | | | | | | 1.9 | | | |
| Gasoline Tank - External Roof Construction | 2.9 | | | | | | | | | | | | | | 2.9 | | |
| Gasoline Tank - Internal Blasting and Coating | 6.7 | | | | | | | | | | | | | | | 6.7 | |
| Gasoline Tank - External Blasting and Coating | 3.8 | | | | | | | | | | | | | | | | 3.8 |
| Total | | 14.9 | 30.2 | 30.2 | 21.2 | 26.1 | 26.1 | 34.5 | 30.7 | 30.7 | 25.5 | 25.5 | 4.3 | 1.9 | 2.9 | 6.7 | 3.8 |

Note: Totals may not match sum of individual values because of rounding.

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert First Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert First Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert First Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert First Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert First Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| Convert First Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert First Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert First Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert First Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert First Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |
| | | | | | | |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert First Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert Second Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Second Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert Second Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Second Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert Second Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| Convert Second Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert Second Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Second Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Second Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Second Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert Third Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Third Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert Third Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |
| | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Third Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert Third Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| | | | | | | |
| Convert Third Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert Third Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Third Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Third Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Third Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert Fourth Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert Fourth Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert Fourth Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Fourth Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| New Loading Lane - Skid Piping Installation | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 3.2 | | | | | |
| New Loading Lane - Skid Piping Installation On-Site Total | 14.1 | 36.5 | 68.2 | 0.1 | 11.1 | 4.2 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| New Loading Lane - Skid Piping Installation Total | 16.1 | 48.3 | 84.3 | 0.1 | 12.6 | 4.9 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Canopy Structure Installation | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 8.0 | | | | | |
| New Loading Lane - Canopy Structure Installation On-Site Total | 18.9 | 36.5 | 68.2 | 0.1 | 11.1 | 4.2 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| New Loading Lane - Canopy Structure Installation Total | 20.9 | 48.3 | 84.3 | 0.1 | 12.6 | 4.9 |
| New Loading Lane - Rack Piping Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.7 | 0.8 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| New Loading Lane - Rack Piping Modifications On-Site Total | 16.1 | 33.0 | 64.5 | 0.1 | 11.0 | 3.9 |
| Off-Site Motor Vehicle Exhaust | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.0 | 0.0 |
| Off-Site Total | 3.2 | 16.9 | 31.6 | 0.0 | 2.6 | 1.3 |
| New Loading Lane - Rack Piping Modifications Total | 19.3 | 49.9 | 96.1 | 0.1 | 13.6 | 5.2 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Paving | | | | | | |
| Construction Equipment Exhaust | 4.7 | 16.8 | 21.4 | 0.0 | 1.6 | 1.5 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.1 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.6 | 0.8 |
| Earthwork Fugitive PM | | | | | 0.1 | 0.0 |
| Asphaltic Paving VOC | 0.5 | | | | | |
| Painting VOC | 0.0 | | | | | |
| New Loading Lane - Paving On-Site Total | 5.3 | 17.4 | 22.6 | 0.0 | 8.4 | 2.4 |
| Off-Site Motor Vehicle Exhaust | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.0 |
| Off-Site Total | 5.1 | 24.6 | 54.8 | 0.1 | 4.1 | 2.3 |
| New Loading Lane - Paving Total | 10.5 | 41.9 | 77.4 | 0.1 | 12.5 | 4.7 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | |
| Construction Equipment Exhaust | 7.6 | 27.6 | 59.8 | 0.1 | 2.8 | 2.6 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.4 | 0.7 |
| Earthwork Fugitive PM | | | | | 1.4 | 0.3 |
| Painting VOC | 0.0 | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction On-Site Total | 7.7 | 27.9 | 60.3 | 0.1 | 10.7 | 3.6 |
| Off-Site Motor Vehicle Exhaust | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.7 | 9.1 | 15.9 | 0.0 | 1.4 | 0.7 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | 9.3 | 37.0 | 76.1 | 0.1 | 12.0 | 4.3 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 8.0 | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications On-Site Total | 17.8 | 33.3 | 64.8 | 0.1 | 10.8 | 3.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | 19.7 | 45.1 | 81.0 | 0.1 | 12.3 | 4.6 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|--------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.6 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation On-Site Total | 12.9 | 33.3 | 64.7 | 0.1 | 10.0 | 3.7 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.3 | 9.3 | 8.4 | 0.0 | 1.1 | 0.4 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | 14.3 | 42.5 | 73.1 | 0.1 | 11.0 | 4.1 |
| Rack Operations Building - Foundations Construction | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 9.6 | 1.0 |
| Earthwork Fugitive PM | | | | | 0.9 | 0.2 |
| Painting VOC | 0.0 | | | | | |
| Rack Operations Building - Foundations Construction On-Site Total | 10.9 | 36.6 | 68.6 | 0.1 | 14.1 | 4.6 |
| Off-Site Motor Vehicle Exhaust | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.0 | 0.0 |
| Off-Site Total | 3.2 | 16.9 | 31.6 | 0.0 | 2.6 | 1.3 |
| Rack Operations Building - Foundations Construction Total | 14.1 | 53.6 | 100.2 | 0.1 | 16.7 | 5.9 |
| Rack Operations Building - Demolition and Building Construction | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.5 | 0.8 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.7 | 0.8 |
| Earthwork Fugitive PM | | | | | 0.5 | 0.1 |
| Painting VOC | 8.0 | | | | | |
| Rack Operations Building - Demolition and Building Construction On-Site Total | 18.9 | 36.6 | 68.5 | 0.1 | 11.8 | 4.3 |
| Off-Site Motor Vehicle Exhaust | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.0 | 0.0 |
| Off-Site Total | 3.2 | 16.9 | 31.6 | 0.0 | 2.6 | 1.3 |
| Rack Operations Building - Demolition and Building Construction Total | 22.2 | 53.6 | 100.1 | 0.1 | 14.4 | 5.6 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|--------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | |
| Construction Equipment Exhaust | 3.6 | 17.2 | 27.0 | 0.0 | 1.7 | 1.6 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 5.9 | 0.7 |
| Earthwork Fugitive PM | | | | | 4.6 | 1.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) On-Site Total | 3.7 | 17.7 | 27.9 | 0.0 | 12.2 | 3.2 |
| Off-Site Motor Vehicle Exhaust | 3.9 | 19.5 | 39.3 | 0.1 | 1.9 | 1.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.2 | 0.0 |
| Off-Site Total | 3.9 | 19.5 | 39.3 | 0.1 | 3.1 | 1.7 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | 7.6 | 37.2 | 67.2 | 0.1 | 15.4 | 4.9 |
| Gasoline Tank - Foundation Construction | | | | | | |
| Construction Equipment Exhaust | 4.7 | 18.6 | 48.5 | 0.1 | 2.0 | 1.8 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 4.4 | 0.6 |
| Earthwork Fugitive PM | | | | | 4.7 | 1.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Foundation Construction On-Site Total | 4.9 | 19.2 | 49.6 | 0.1 | 11.1 | 3.4 |
| Off-Site Motor Vehicle Exhaust | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.0 |
| Off-Site Total | 5.1 | 24.6 | 54.8 | 0.1 | 4.1 | 2.3 |
| Gasoline Tank - Foundation Construction Total | 10.0 | 43.8 | 104.4 | 0.1 | 15.3 | 5.7 |
| Gasoline Tank - Foundation Level Survey | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.4 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 4.0 | 0.4 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Foundation Level Survey On-Site Total | 0.0 | 0.3 | 0.4 | 0.0 | 4.0 | 0.4 |
| Off-Site Motor Vehicle Exhaust | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.7 | 9.1 | 15.9 | 0.0 | 1.4 | 0.7 |
| Gasoline Tank - Foundation Level Survey Total | 1.7 | 9.4 | 16.3 | 0.0 | 5.4 | 1.1 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Tank Shell Erection | | | | | | |
| Construction Equipment Exhaust | 3.5 | 15.2 | 37.7 | 0.0 | 1.5 | 1.4 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 4.8 | 0.6 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Tank Shell Erection On-Site Total | 3.6 | 15.8 | 38.9 | 0.0 | 6.3 | 2.0 |
| Off-Site Motor Vehicle Exhaust | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.0 |
| Off-Site Total | 5.1 | 24.6 | 54.8 | 0.1 | 4.1 | 2.3 |
| Gasoline Tank - Tank Shell Erection Total | 8.8 | 40.4 | 93.7 | 0.1 | 10.5 | 4.3 |
| Gasoline Tank - Piping Installation | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 6.4 | | | | | |
| Gasoline Tank - Piping Installation On-Site Total | 17.3 | 36.5 | 68.2 | 0.1 | 11.1 | 4.2 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Gasoline Tank - Piping Installation Total | 19.3 | 48.3 | 84.3 | 0.1 | 12.6 | 4.9 |
| Gasoline Tank - Pump Foundation | | | | | | |
| Construction Equipment Exhaust | 7.6 | 27.6 | 59.8 | 0.1 | 2.8 | 2.6 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.4 | 0.7 |
| Earthwork Fugitive PM | | | | | 1.4 | 0.3 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Pump Foundation On-Site Total | 7.7 | 27.9 | 60.3 | 0.1 | 10.7 | 3.6 |
| Off-Site Motor Vehicle Exhaust | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.7 | 9.1 | 15.9 | 0.0 | 1.4 | 0.7 |
| Gasoline Tank - Pump Foundation Total | 9.3 | 37.0 | 76.1 | 0.1 | 12.0 | 4.3 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|--------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Pump Installation | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.6 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Gasoline Tank - Pump Installation On-Site Total | 12.9 | 33.3 | 64.7 | 0.1 | 10.0 | 3.7 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.3 | 9.3 | 8.4 | 0.0 | 1.1 | 0.4 |
| Gasoline Tank - Pump Installation Total | 14.3 | 42.5 | 73.1 | 0.1 | 11.0 | 4.1 |
| Gasoline Tank - Berm Construction | | | | | | |
| Construction Equipment Exhaust | 3.2 | 11.5 | 27.2 | 0.0 | 1.3 | 1.2 |
| On-Site Motor Vehicle Exhaust | 0.2 | 0.8 | 2.3 | 0.0 | 0.1 | 0.1 |
| On-Site Motor Vehicle Fugitive PM | | | | | 5.8 | 0.8 |
| Earthwork Fugitive PM | | | | | 5.4 | 1.1 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Berm Construction On-Site Total | 3.4 | 12.3 | 29.4 | 0.0 | 12.5 | 3.2 |
| Off-Site Motor Vehicle Exhaust | 9.8 | 43.5 | 112.0 | 0.2 | 5.5 | 4.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 2.5 | 0.0 |
| Off-Site Total | 9.8 | 43.5 | 112.0 | 0.2 | 7.9 | 4.7 |
| Gasoline Tank - Berm Construction Total | 13.2 | 55.8 | 141.4 | 0.2 | 20.5 | 7.9 |
| Gasoline Tank - Hydrotest | | | | | | |
| Construction Equipment Exhaust | 3.5 | 15.2 | 37.7 | 0.0 | 1.5 | 1.4 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.1 | 0.1 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - Hydrotest On-Site Total | 3.6 | 15.5 | 37.9 | 0.0 | 2.6 | 1.5 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.3 | 9.3 | 8.4 | 0.0 | 1.1 | 0.4 |
| Gasoline Tank - Hydrotest Total | 4.9 | 24.7 | 46.3 | 0.1 | 3.7 | 1.9 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|--------------|------------|------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - External Roof Construction | | | | | | |
| Construction Equipment Exhaust | 2.2 | 6.2 | 22.9 | 0.0 | 0.8 | 0.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 4.1 | 0.5 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Gasoline Tank - External Roof Construction On-Site Total | 2.3 | 6.6 | 23.8 | 0.0 | 4.9 | 1.2 |
| Off-Site Motor Vehicle Exhaust | 3.9 | 19.5 | 39.3 | 0.1 | 1.9 | 1.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.2 | 0.0 |
| Off-Site Total | 3.9 | 19.5 | 39.3 | 0.1 | 3.1 | 1.7 |
| Gasoline Tank - External Roof Construction Total | 6.1 | 26.1 | 63.1 | 0.1 | 8.0 | 2.9 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | |
| Construction Equipment Exhaust | 16.7 | 63.0 | 193.1 | 0.2 | 6.4 | 5.9 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.1 | 0.1 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 35.9 | | | | | |
| Gasoline Tank - Internal Blasting and Coating On-Site Total | 52.6 | 63.3 | 193.4 | 0.2 | 7.5 | 6.0 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Gasoline Tank - Internal Blasting and Coating Total | 54.6 | 75.1 | 209.6 | 0.3 | 9.1 | 6.7 |

Table 48
Alternative 2 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|--------------|------------|------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - External Blasting and Coating | | | | | | |
| Construction Equipment Exhaust | 8.3 | 31.5 | 96.5 | 0.1 | 3.2 | 2.9 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.1 | 0.1 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 19.2 | | | | | |
| Gasoline Tank - External Blasting and Coating On-Site Total | 27.6 | 31.8 | 96.9 | 0.1 | 4.3 | 3.1 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Gasoline Tank - External Blasting and Coating Total | 29.5 | 43.6 | 113.0 | 0.2 | 5.9 | 3.8 |

Note: Totals may not match sum of individual values because of rounding.

Table 49
Alternative 2 Daily Construction Equipment Exhaust Emissions by Construction Phase

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 0.1498 | 0.7431 | 1.3164 | 0.0016 | 0.0664 | 0.0611 | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Vacuum System | 210 | 1 | 10 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 1.5 | 5.4 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | | | | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 125 kW Generator | 175 | 1 | 10 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 1.5 | 7.4 | 13.1 | 0.0 | 0.6 | 0.6 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | | | | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 0.1498 | 0.7431 | 1.3164 | 0.0016 | 0.0664 | 0.0611 | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |

Table 49
Alternative 2 Daily Construction Equipment Exhaust Emissions by Construction Phase

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Vacuum System | 210 | 1 | 10 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 1.5 | 5.4 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | | | | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 125 kW Generator | 175 | 1 | 10 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 1.5 | 7.4 | 13.1 | 0.0 | 0.6 | 0.6 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | | | | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 0.1498 | 0.7431 | 1.3164 | 0.0016 | 0.0664 | 0.0611 | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Vacuum System | 210 | 1 | 10 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 1.5 | 5.4 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | | | | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |

Table 49
Alternative 2 Daily Construction Equipment Exhaust Emissions by Construction Phase

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 125 kW Generator | 175 | 1 | 10 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 1.5 | 7.4 | 13.1 | 0.0 | 0.6 | 0.6 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | | | | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 0.1498 | 0.7431 | 1.3164 | 0.0016 | 0.0664 | 0.0611 | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Vacuum System | 210 | 1 | 10 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 1.5 | 5.4 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | | | | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |

Table 49
Alternative 2 Daily Construction Equipment Exhaust Emissions by Construction Phase

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 125 kW Generator | 175 | 1 | 10 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 1.5 | 7.4 | 13.1 | 0.0 | 0.6 | 0.6 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | | | | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| New Loading Lane - Skid Piping Installation | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | | | | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | | | | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |

Table 49
Alternative 2 Daily Construction Equipment Exhaust Emissions by Construction Phase

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|---|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Paving | | | | | | | | | | | | | | | |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| Paving Machine | 45 | 1 | 10 | 0.1451 | 0.3680 | 0.3038 | 0.0004 | 0.0327 | 0.0301 | 1.5 | 3.7 | 3.0 | 0.0 | 0.3 | 0.3 |
| New Loading Lane - Paving Total | | | | | | | | | | 4.7 | 16.8 | 21.4 | 0.0 | 1.6 | 1.5 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | | | | 7.6 | 27.6 | 59.8 | 0.1 | 2.8 | 2.6 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Rack Operations Building - Foundations Construction | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| Rack Operations Building - Foundations Construction Total | | | | | | | | | | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |

Table 49
Alternative 2 Daily Construction Equipment Exhaust Emissions by Construction Phase

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|---|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | | | | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | | | | | | | | |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Grader | 158 | 1 | 10 | 0.1554 | 0.7363 | 1.1931 | 0.0014 | 0.0688 | 0.0633 | 1.6 | 7.4 | 11.9 | 0.0 | 0.7 | 0.6 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | | | | 3.6 | 17.2 | 27.0 | 0.0 | 1.7 | 1.6 |
| Gasoline Tank - Foundation Construction | | | | | | | | | | | | | | | |
| Excavator | 222 | 1 | 10 | 0.1301 | 0.3630 | 1.2438 | 0.0018 | 0.0415 | 0.0382 | 1.3 | 3.6 | 12.4 | 0.0 | 0.4 | 0.4 |
| Backhoe | 84 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Skip Loader | 75 | 1 | 10 | 0.0482 | 0.2769 | 0.3536 | 0.0005 | 0.0286 | 0.0263 | 0.5 | 2.8 | 3.5 | 0.0 | 0.3 | 0.3 |
| Concrete Pump | 400 | 1 | 10 | 0.2089 | 0.8032 | 2.6861 | 0.0034 | 0.0803 | 0.0739 | 2.1 | 8.0 | 26.9 | 0.0 | 0.8 | 0.7 |
| Concrete Vibrator | 2 | 1 | 10 | 0.0118 | 0.0617 | 0.0737 | 0.0002 | 0.0028 | 0.0026 | 0.1 | 0.6 | 0.7 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | | | | 4.7 | 18.6 | 48.5 | 0.1 | 2.0 | 1.8 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | | | | | | | | |
| Crane | 160 | 1 | 10 | 0.1089 | 0.4838 | 0.8259 | 0.0009 | 0.0479 | 0.0441 | 1.1 | 4.8 | 8.3 | 0.0 | 0.5 | 0.4 |
| 225 Amp. Generator | 370 | 1 | 10 | 0.1952 | 0.7617 | 2.5896 | 0.0033 | 0.0756 | 0.0696 | 2.0 | 7.6 | 25.9 | 0.0 | 0.8 | 0.7 |
| Bobcat | 56 | 1 | 10 | 0.0482 | 0.2769 | 0.3536 | 0.0005 | 0.0286 | 0.0263 | 0.5 | 2.8 | 3.5 | 0.0 | 0.3 | 0.3 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | | | | 3.5 | 15.2 | 37.7 | 0.0 | 1.5 | 1.4 |
| Gasoline Tank - Piping Installation | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| Gasoline Tank - Piping Installation Total | | | | | | | | | | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |

Table 49
Alternative 2 Daily Construction Equipment Exhaust Emissions by Construction Phase

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|--------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Pump Foundation | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Concrete Pump | 40 | 1 | 10 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 0.0275 | 1.2 | 3.2 | 3.4 | 0.0 | 0.3 | 0.3 |
| Gasoline Tank - Pump Foundation Total | | | | | | | | | | 7.6 | 27.6 | 59.8 | 0.1 | 2.8 | 2.6 |
| Gasoline Tank - Pump Installation | | | | | | | | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 0.0525 | 3.3 | 11.4 | 30.7 | 0.0 | 1.1 | 1.1 |
| 18 Ton Crane | 185 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| Backhoe | 90 | 1 | 10 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 0.0397 | 0.8 | 3.6 | 4.9 | 0.0 | 0.4 | 0.4 |
| Loader | 175 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Welding Machine | 45 | 3 | 10 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 0.0239 | 3.2 | 8.6 | 7.9 | 0.0 | 0.8 | 0.7 |
| Gasoline Tank - Pump Installation Total | | | | | | | | | | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| Gasoline Tank - Berm Construction | | | | | | | | | | | | | | | |
| Rubber Tired Loaders | 149 | 1 | 10 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 0.0536 | 1.3 | 6.3 | 10.1 | 0.0 | 0.6 | 0.5 |
| Crawler Tractors | 200 | 1 | 10 | 0.1854 | 0.5225 | 1.7044 | 0.0019 | 0.0667 | 0.0614 | 1.9 | 5.2 | 17.0 | 0.0 | 0.7 | 0.6 |
| Gasoline Tank - Berm Construction Total | | | | | | | | | | 3.2 | 11.5 | 27.2 | 0.0 | 1.3 | 1.2 |
| Gasoline Tank - Hydrotest | | | | | | | | | | | | | | | |
| Crane | 160 | 1 | 10 | 0.1089 | 0.4838 | 0.8259 | 0.0009 | 0.0479 | 0.0441 | 1.1 | 4.8 | 8.3 | 0.0 | 0.5 | 0.4 |
| 225 Amp. Generator | 370 | 1 | 10 | 0.1952 | 0.7617 | 2.5896 | 0.0033 | 0.0756 | 0.0696 | 2.0 | 7.6 | 25.9 | 0.0 | 0.8 | 0.7 |
| Bobcat | 56 | 1 | 10 | 0.0482 | 0.2769 | 0.3536 | 0.0005 | 0.0286 | 0.0263 | 0.5 | 2.8 | 3.5 | 0.0 | 0.3 | 0.3 |
| Gasoline Tank - Hydrotest Total | | | | | | | | | | 3.5 | 15.2 | 37.7 | 0.0 | 1.5 | 1.4 |
| Gasoline Tank - External Roof Construction | | | | | | | | | | | | | | | |
| 50 Ton Crane | 250 | 1 | 10 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 0.0357 | 1.1 | 3.1 | 10.7 | 0.0 | 0.4 | 0.4 |
| 90 psig Compressor | 180 | 1 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 1.1 | 3.1 | 12.2 | 0.0 | 0.4 | 0.3 |
| Gasoline Tank - External Roof Construction Total | | | | | | | | | | 2.2 | 6.2 | 22.9 | 0.0 | 0.8 | 0.7 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | | | | | | | | |
| 825 psig Compressor | 250 | 2 | 20 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 4.3 | 12.2 | 48.8 | 0.1 | 1.5 | 1.4 |
| 200 kW generator | 275 | 1 | 20 | 0.1952 | 0.7617 | 2.5896 | 0.0033 | 0.0756 | 0.0696 | 3.9 | 15.2 | 51.8 | 0.1 | 1.5 | 1.4 |
| 125 kW generator | 175 | 1 | 20 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 2.9 | 14.8 | 26.3 | 0.0 | 1.3 | 1.2 |
| 80 ft. Manlift | 125 | 1 | 20 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 2.6 | 9.9 | 33.1 | 0.0 | 1.0 | 0.9 |
| Vacuum System | 210 | 1 | 20 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 3.0 | 10.9 | 33.1 | 0.0 | 1.1 | 1.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | | | | 16.7 | 63.0 | 193.1 | 0.2 | 6.4 | 5.9 |

Table 49
Alternative 2 Daily Construction Equipment Exhaust Emissions by Construction Phase

| Equipment | HP | No. | Hr/Day | Emission Factors (lb/hr) ^a | | | | | | Daily Emissions (lb/day) ^c | | | | | |
|--|-----|-----|--------|---------------------------------------|--------|--------|--------|--------|--------------------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 ^b | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | | | | | | | | |
| 825 psig Compressor | 250 | 2 | 10 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 0.0349 | 2.1 | 6.1 | 24.4 | 0.0 | 0.8 | 0.7 |
| 200 kW generator | 275 | 1 | 10 | 0.1952 | 0.7617 | 2.5896 | 0.0033 | 0.0756 | 0.0696 | 2.0 | 7.6 | 25.9 | 0.0 | 0.8 | 0.7 |
| 125 kW generator | 175 | 1 | 10 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 0.0593 | 1.5 | 7.4 | 13.1 | 0.0 | 0.6 | 0.6 |
| 80 ft. Manlift | 125 | 1 | 10 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 0.0452 | 1.3 | 4.9 | 16.6 | 0.0 | 0.5 | 0.5 |
| Vacuum System | 210 | 1 | 10 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 0.0502 | 1.5 | 5.4 | 16.6 | 0.0 | 0.5 | 0.5 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | | | | 8.3 | 31.5 | 96.5 | 0.1 | 3.2 | 2.9 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for construction equipment in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/offroad/offroad.html>

^b Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction= 0.920

From Appendix A, Final-Methodology to Calculate Particulate Matter (PM) 2.5

and PM 2.5 Significance Thresholds, SCAQMD, October 2006,

http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html

^c Daily Emissions [lb/day] = Emission factor [lb/hr] x Number x Daily operating time [hr/day]

Table 50
Alternative 2 Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|---|-------------|-----|------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | | | | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | | | | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |

Table 50
Alternative 2 Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh- Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|--|-------------|-----|----------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | | | | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | | | | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |

**Table 50
Alternative 2 Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh- Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|---|-------------|-----|----------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | | | | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | | | | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |

Table 50
Alternative 2 Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh- Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|--|-------------|-----|----------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | | | | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | | | | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |

**Table 50
Alternative 2 Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh- Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|--|-------------|-----|----------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Skid Piping Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | | | | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Paving | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.4 | 1.1 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Paving Total | | | | | | | | | | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.1 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | | | | 0.1 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 |

**Table 50
Alternative 2 Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh- Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|---|-------------|-----|----------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | | | | 0.1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| Rack Operations Building - Foundations Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Heavy Duty | 3 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rack Operations Building - Foundations Construction Total | | | | | | | | | | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | | | | 0.1 | 0.5 | 0.8 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.3 | 0.8 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | | | | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |

Table 50
Alternative 2 Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|--|-------------|-----|------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Foundation Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.4 | 1.1 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 1 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | | | | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.0 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | | | | 0.0 | 0.3 | 0.4 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.4 | 1.1 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | | | | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.0 |
| Gasoline Tank - Piping Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Piping Installation Total | | | | | | | | | | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Pump Foundation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Pump Foundation Total | | | | | | | | | | 0.1 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 |

Table 50
Alternative 2 Daily On-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|--|-------------|-----|------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|------------|------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Pump Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Pump Installation Total | | | | | | | | | | 0.1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Berm Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 5 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 72 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.2 | 0.7 | 2.2 | 0.0 | 0.1 | 0.1 |
| Water Truck | Heavy Duty | 1 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Berm Construction Total | | | | | | | | | | 0.2 | 0.8 | 2.3 | 0.0 | 0.1 | 0.1 |
| Gasoline Tank - Hydrotest | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | | | | | | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - External Roof Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.1 | 0.3 | 0.8 | 0.0 | 0.0 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | | | | | | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | | | | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for on-road motor vehicles in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html>

^b Daily Emissions [lb/day] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/vehicle-day]

Table 51
Alternative 2 Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|--|------------|-----|------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | | | | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | | | | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |

Table 51
Alternative 2 Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|--|------------|-----|------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | | | | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |

Table 51
Alternative 2 Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | | Daily Emissions (lb/day) ^b | | | | | |
|--|------------|-----|------------|---------------------------------------|----------|----------|----------|----------|----------|---------------------------------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.3 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.3 | 1.0 | 3.1 | 0.0 | 0.1 | 0.1 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | | | | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | | | | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Skid Piping Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 2.5 | 10.2 | 30.9 | 0.0 | 1.5 | 1.3 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | | | | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |

Table 51
Alternative 2 Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|---|------------|-----|------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Paving | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 4.4 | 17.9 | 54.1 | 0.1 | 2.6 | 2.3 |
| New Loading Lane - Paving Total | | | | | | | | | | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | | | | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | | | | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Rack Operations Building - Foundations Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 2.5 | 10.2 | 30.9 | 0.0 | 1.5 | 1.3 |
| Rack Operations Building - Foundations Construction Total | | | | | | | | | | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 2.5 | 10.2 | 30.9 | 0.0 | 1.5 | 1.3 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | | | | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 3.2 | 12.8 | 38.7 | 0.1 | 1.9 | 1.6 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | | | | 3.9 | 19.5 | 39.3 | 0.1 | 1.9 | 1.7 |
| Gasoline Tank - Foundation Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 4.4 | 17.9 | 54.1 | 0.1 | 2.6 | 2.3 |
| Gasoline Tank - Foundation Construction Total | | | | | | | | | | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | | | | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |

Table 51
Alternative 2 Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|--|------------|-----|------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|-------------|--------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 4.4 | 17.9 | 54.1 | 0.1 | 2.6 | 2.3 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | | | | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Gasoline Tank - Piping Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Gasoline Tank - Piping Installation Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Gasoline Tank - Pump Foundation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.4 | 4.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Gasoline Tank - Pump Foundation Total | | | | | | | | | | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |
| Gasoline Tank - Pump Installation | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Gasoline Tank - Pump Installation Total | | | | | | | | | | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Gasoline Tank - Berm Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 72 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 9.1 | 36.8 | 111.3 | 0.1 | 5.4 | 4.7 |
| Gasoline Tank - Berm Construction Total | | | | | | | | | | 9.8 | 43.5 | 112.0 | 0.2 | 5.5 | 4.7 |
| Gasoline Tank - Hydrotest | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 0.6 | 2.6 | 7.7 | 0.0 | 0.4 | 0.3 |
| Gasoline Tank - Hydrotest Total | | | | | | | | | | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Gasoline Tank - External Roof Construction | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 3.2 | 12.8 | 38.7 | 0.1 | 1.9 | 1.6 |
| Gasoline Tank - External Roof Construction Total | | | | | | | | | | 3.9 | 19.5 | 39.3 | 0.1 | 1.9 | 1.7 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |

**Table 51
Alternative 2 Daily Off-Site Construction Motor Vehicle Exhaust Emissions by Construction Phase**

| Vehicle Type | Category | No. | Mi/Veh- Day | Emission Factors (lb/mi) ^a | | | | | Daily Emissions (lb/day) ^b | | | | | | |
|--|------------|-----|----------------|---------------------------------------|----------|----------|----------|----------|---------------------------------------|------------|-------------|-------------|------------|------------|------------|
| | | | | VOC | CO | NOx | SOx | PM10 | PM2.5 | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 0.7 | 6.7 | 0.7 | 0.0 | 0.1 | 0.1 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 1.3 | 5.1 | 15.5 | 0.0 | 0.7 | 0.6 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | | | | | | | | | |
| | | | | | | | | | | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for on-road motor vehicles in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html>

^b Daily Emissions [lb/day] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/vehicle-day]

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^f | |
|---|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | | | 4.6 | 0.5 | | 2.2 | 0.2 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | | | 2.3 | 0.3 | | 1.4 | 0.2 |

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^f | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | | | 4.6 | 0.5 | | 2.2 | 0.2 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^f | | | | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|-------|-------------------------------------|--|-------------|------------|------------|-----------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 | | | |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | | | | | | | 15.2 | 1.5 | 7.0 | 0.7 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | | | |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 | | | |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 | | | |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | | | | | | | 2.3 | 0.3 | 1.4 | 0.2 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | | | |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 | | | |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 | | | |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 | | | |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 | | | |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 | | | |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | | | | 15.2 | 1.5 | 7.0 | 7.24E-01 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | | | |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 | | | |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 | | | |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | | | | | | | 4.4 | 0.4 | 2.0 | 0.2 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | | | |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 | | | |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 | | | |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | | | | | | | 4.4 | 0.4 | 2.0 | 0.2 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 | | | |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 | | | |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 | | | |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | | | | | | | 4.6 | 0.5 | 2.2 | 0.2 |

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^f | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | | | 2.3 | 0.3 | | 1.4 | 0.2 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^f | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | | | | | | | |
| | | | | | | | | | 4.4 | 0.4 | | 2.0 | 0.2 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 3 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 2.3 | 0.2 | 57.0 | 1.0 | 0.1 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | | | | | | | |
| | | | | | | | | | 4.6 | 0.5 | | 2.2 | 0.2 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | | | | | | | |
| | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | | | | | | | |
| | | | | | | | | | 2.3 | 0.3 | | 1.4 | 0.2 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | | | | | | | |
| | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^f | |
|---|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| New Loading Lane - Skid Piping Installation | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 1.4 | 0.2 | 0.0 | 1.4 | 0.2 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | | | 15.9 | 1.6 | | 7.7 | 0.8 |
| New Loading Lane - Paving | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 2.4 | 0.4 | 0.0 | 2.4 | 0.4 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Welding Truck | Medium Duty | 3 | 5 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 15.2 | 1.5 | 57.0 | 6.5 | 0.7 |
| New Loading Lane - Paving Total | | | | | | | | | 27.2 | 2.8 | | 13.1 | 1.4 |

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^f | |
|---|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | | | 14.0 | 1.4 | | 6.4 | 0.7 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | | | 14.8 | 1.5 | | 6.6 | 0.7 |
| Rack Operations Building - Foundations Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 1.4 | 0.2 | 0.0 | 1.4 | 0.2 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Heavy Duty | 3 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 5.7 | 0.6 | 57.0 | 2.4 | 0.2 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Rack Operations Building - Foundations Construction Total | | | | | | | | | 20.4 | 2.1 | | 9.6 | 1.0 |

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^f | |
|---|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 1.4 | 0.2 | 0.0 | 1.4 | 0.2 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | | | 15.9 | 1.6 | | 7.7 | 0.8 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 1.7 | 0.3 | 0.0 | 1.7 | 0.3 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | | | 11.3 | 1.2 | | 5.9 | 0.7 |
| Gasoline Tank - Foundation Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 2.4 | 0.4 | 0.0 | 2.4 | 0.4 |
| Service Truck | Light Duty | 1 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 0.8 | 0.1 | 57.0 | 0.3 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Gasoline Tank - Foundation Construction Total | | | | | | | | | 7.0 | 0.8 | | 4.4 | 0.6 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | | | 8.3 | 0.9 | | 4.0 | 0.4 |

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^f | |
|---|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 2.4 | 0.4 | 0.0 | 2.4 | 0.4 |
| Service Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | | | 7.8 | 0.9 | | 4.8 | 0.6 |
| Gasoline Tank - Hydrotest | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Gasoline Tank - Hydrotest Total | | | | | | | | | 2.0 | 0.2 | | 1.1 | 0.1 |
| Gasoline Tank - External Roof Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 1.7 | 0.3 | 0.0 | 1.7 | 0.3 |
| Service Truck | Light Duty | 2 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 1.5 | 0.2 | 57.0 | 0.7 | 0.1 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Gasoline Tank - External Roof Construction Total | | | | | | | | | 7.1 | 0.8 | | 4.1 | 0.5 |
| Gasoline Tank - Piping Installation | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Gasoline Tank - Piping Installation Total | | | | | | | | | 15.2 | 1.5 | | 7.0 | 0.7 |
| Gasoline Tank - Pump Foundation | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Gasoline Tank - Pump Foundation Total | | | | | | | | | 14.0 | 1.4 | | 6.4 | 0.7 |

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^f | |
|--|-------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Gasoline Tank - Pump Installation | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.3 | 0.1 | 0.0 | 0.3 | 0.1 |
| Service Truck | Light Duty | 5 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Flatbed Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Boom Truck | Heavy Duty | 2 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 3.8 | 0.4 | 57.0 | 1.6 | 0.2 |
| Welding Truck | Medium Duty | 3 | 1 | Unpaved | 6 | 5 | 1.01E+00 | 1.01E-01 | 3.0 | 0.3 | 57.0 | 1.3 | 0.1 |
| Gasoline Tank - Pump Installation Total | | | | | | | | | 14.8 | 1.5 | | 6.6 | 0.7 |
| Gasoline Tank - Berm Construction | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 5 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 72 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 5.0 | 0.7 | 0.0 | 5.0 | 0.7 |
| Water Truck | Heavy Duty | 1 | 1 | Unpaved | 6 | 20 | 1.89E+00 | 1.89E-01 | 1.9 | 0.2 | 57.0 | 0.8 | 0.1 |
| Gasoline Tank - Berm Construction Total | | | | | | | | | 6.9 | 0.9 | | 5.8 | 0.8 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 0.8 | 0.1 | 57.0 | 0.3 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | | | 1.5 | 0.2 | | 1.1 | 0.1 |

Table 52
Alternative 2 Daily On-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Surface Type | Silt Loading (g/m ²)/ Silt Content (%) ^a | Vehicle Weight (tons) | Uncontrolled Emission Factors (lb/mi) ^b | | Uncontrolled Emissions (lb/day) ^c | | Control Efficiency (%) ^d | Controlled Emissions (lb/day) ^e | |
|--|------------|-----|------------|--------------|---|-----------------------|--|----------|--|------------|-------------------------------------|--|------------|
| | | | | | | | PM10 | PM2.5 | PM10 | PM2.5 | | PM10 | PM2.5 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | Paved | 0.24 | 2.7 | 2.97E-03 | 1.56E-04 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | Paved | 0.24 | 20 | 6.89E-02 | 1.01E-02 | 0.7 | 0.1 | 0.0 | 0.7 | 0.1 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | Unpaved | 6 | 2.7 | 7.67E-01 | 7.67E-02 | 0.8 | 0.1 | 57.0 | 0.3 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | | | | | | | |
| | | | | | | | | | 1.5 | 0.2 | | 1.1 | 0.1 |

Note: Totals may not match sum of individual values because of rounding.

^a Paved road silt loading from ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997) for local roads, <http://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9.pdf>

Unpaved surface silt content from SCAQMD CEQA Handbook, (1993) Table A9-9-D-1 for city and county roads

^b Equations:

EF (paved) = $k_p (sL/2)^{0.65} (W/3)^{1.5} - C$ Ref: AP-42, Section 13.2.1, "Paved Rods," November 2006

EF (unpaved) = $k_u (s/12)^a (W/3)^b$ Ref: AP-42, Section 13.2.2, "Unpaved Rods," November 2006

Constants:

| | | |
|---------|---------|---|
| k_p = | 0.016 | (Particle size multiplier for PM10) |
| | 0.0024 | (Particle size multiplier for PM2.5) |
| C = | 0.00047 | (Exhaust, brake wear and tire wear adjustment, PM10) |
| | 0.00036 | (Exhaust, brake wear and tire wear adjustment, PM2.5) |
| k_u = | 1.5 | (Particle size multiplier for PM) |
| | 0.15 | (Particle size multiplier for PM2.5) |
| a = | 0.9 | for PM10 |
| | 0.9 | for PM2.5 |
| b = | 0.45 | for PM10 |
| | 0.45 | for PM2.5 |

^c Uncontrolled emissions [lb/day] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/vehicle-day]

^d Control efficiency from limiting speed on unpaved surfaces to 15 mph, from Table XI-A, Mitigation Measure Examples,

Fugitive Dust from Construction & Demolition, http://www.aqmd.gov/ceqa/handbook/mitigation/fugitive/MM_fugitive.html

^e Controlled emissions [lb/day] = Uncontrolled emissions [lb/day] x (1 - Control efficiency [%] / 100)

Table 53
Alternative 2 Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|---|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | | 0.2 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | | 0.2 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | | 0.4 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | | 0.8 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | | 0.8 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | | 0.8 | 0.0 |

Table 53
Alternative 2 Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|--|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | | 0.2 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | | 0.2 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | | 0.4 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | | 0.8 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | | 0.8 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | | 0.8 | 0.0 |

Table 53
Alternative 2 Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|---|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | | 0.2 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | | 0.2 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | | 0.4 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | | 0.8 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | | 0.8 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | | 0.8 | 0.0 |

Table 53
Alternative 2 Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|--|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | | 0.2 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | | 0.2 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | | 0.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | | 0.8 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | | 0.8 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | | 0.8 | 0.0 |

Table 53
Alternative 2 Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|---|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| New Loading Lane - Skid Piping Installation | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | | 0.8 | 0.0 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | | 0.8 | 0.0 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.6 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | | 1.0 | 0.0 |
| New Loading Lane - Paving | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 1.0 | 0.0 |
| New Loading Lane - Paving Total | | | | | | | | 1.4 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | | 0.6 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | | 0.8 | 0.0 |

Table 53
Alternative 2 Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|---|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | | 0.6 | 0.0 |
| Rack Operations Building - Foundations Construction | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.6 | 0.0 |
| Rack Operations Building - Foundations Construction Total | | | | | | | | 1.0 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.6 | 0.0 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | | 1.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.7 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | | 1.2 | 0.0 |
| Gasoline Tank - Foundation Construction | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 1.0 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | | 1.4 | 0.0 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | | 0.6 | 0.0 |

Table 53
Alternative 2 Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|--|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 1.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | | 1.4 | 0.0 |
| Gasoline Tank - Piping Installation | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Gasoline Tank - Piping Installation Total | | | | | | | | 0.8 | 0.0 |
| Gasoline Tank - Pump Foundation | | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Gasoline Tank - Pump Foundation Total | | | | | | | | 0.6 | 0.0 |
| Gasoline Tank - Pump Installation | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Gasoline Tank - Pump Installation Total | | | | | | | | 0.6 | 0.0 |
| Gasoline Tank - Berm Construction | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 72 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 2.0 | 0.0 |
| Gasoline Tank - Berm Construction Total | | | | | | | | 2.5 | 0.0 |
| Gasoline Tank - Hydrotest | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.1 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | | | | 0.6 | 0.0 |

Table 53
Alternative 2 Daily Off-Site Construction Motor Vehicle Fugitive Particulate Matter Emissions by Construction Phase

| Vehicle Type | Category | No. | Mi/Veh-Day | Silt Loading (g/m ²) ^a | Vehicle Weight (tons) ^b | Emission Factors (lb/mi) ^c | | Emissions (lb/day) ^d | |
|--|------------|-----|------------|---|------------------------------------|---------------------------------------|----------|---------------------------------|------------|
| | | | | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Gasoline Tank - External Roof Construction | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.7 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | | | | 1.2 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | | 0.8 | 0.0 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 0.037 | 2.7 | 5.51E-04 | 0.00E+00 | 0.3 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | | 0.8 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a Paved road silt loading from ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997) for collector roads, <http://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9.pdf>

^b Average vehicle weight from from ARB Emission Inventory Methodology 7.9 for Los Angeles County

^c Equations:

$$EF = k_p (sL/2)^{0.65} (W/3)^{1.5} - C \quad \text{Ref: AP-42, Section 13.2.1, "Paved Rods," November 2006}$$

Constants:

$k_p =$ 0.016 (Particle size multiplier for PM10)
0.0024 (Particle size multiplier for PM2.5)
 $C =$ 0.00047 (Exhaust, brake wear and tire wear adjustment, PM10)
0.00036 (Exhaust, brake wear and tire wear adjustment, PM2.5)

^d Emissions [lb/day] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/vehicle-day]

Table 54
Alternative 2 Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/ activity unit) ^a | | Emissions (lb/day) ^b | |
|---|----------------|----------------|---|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | 0.0 | 0.0 |

Table 54
Alternative 2 Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/activity unit) ^a | | Emissions (lb/day) ^b | |
|--|----------------|----------------|--|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | 0.0 | 0.0 |

Table 54
Alternative 2 Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/ activity unit) ^a | | Emissions (lb/day) ^b | |
|--|----------------|----------------|---|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | 0.0 | 0.0 |

Table 54
Alternative 2 Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/ activity unit) ^a | | Emissions (lb/day) ^b | |
|--|----------------|----------------|---|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | 0.0 | 0.0 |

Table 54
Alternative 2 Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/ activity unit) ^a | | Emissions (lb/day) ^b | |
|--|----------------|----------------|---|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | | | | | | |
| Soil Handling | CY/Day | 50 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.023 | 1.72E+01 | 3.57E+00 | 0.4 | 0.1 |
| New Loading Lane - Skid Piping Installation Total | | | | | 0.4 | 0.1 |
| New Loading Lane - Canopy Structure Installation | | | | | | |
| Soil Handling | CY/Day | 50 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.023 | 1.72E+01 | 3.57E+00 | 0.4 | 0.1 |
| New Loading Lane - Canopy Structure Installation Total | | | | | 0.4 | 0.1 |
| New Loading Lane - Rack Piping Modifications | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | 0.0 | 0.0 |

Table 54
Alternative 2 Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/ activity unit) ^a | | Emissions (lb/day) ^b | |
|--|----------------|----------------|---|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| New Loading Lane - Paving | | | | | | |
| Soil Handling | CY/Day | 50 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.005 | 1.72E+01 | 3.57E+00 | 0.1 | 0.0 |
| New Loading Lane - Paving Total | | | | | 0.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | |
| Soil Handling | CY/Day | 750 | 9.94E-04 | 2.07E-04 | 0.7 | 0.2 |
| Storage Pile Wind Erosion | Acres | 0.037 | 1.72E+01 | 3.57E+00 | 0.6 | 0.1 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | 1.4 | 0.3 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | |
| Soil Handling | CY/Day | 50 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.023 | 1.72E+01 | 3.57E+00 | 0.4 | 0.1 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | 0.4 | 0.1 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | 0.0 | 0.0 |
| Rack Operations Building - Foundations Construction | | | | | | |
| Soil Handling | CY/Day | 250 | 9.94E-04 | 2.07E-04 | 0.2 | 0.1 |
| Storage Pile Wind Erosion | Acres | 0.037 | 1.72E+01 | 3.57E+00 | 0.6 | 0.1 |
| Rack Operations Building - Foundations Construction Total | | | | | 0.9 | 0.2 |
| Rack Operations Building - Demolition and Building Construction | | | | | | |
| Soil Handling | CY/Day | 100 | 9.94E-04 | 2.07E-04 | 0.1 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.023 | 1.72E+01 | 3.57E+00 | 0.4 | 0.1 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | 0.5 | 0.1 |

Table 54
Alternative 2 Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Acitivity Level | Emission Factors (lb/ activity unit) ^a | | Emissions (lb/day) ^b | |
|---|----------------|-----------------|---|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | |
| Soil Handling | CY/Day | 500 | 9.94E-04 | 2.07E-04 | 0.5 | 0.1 |
| Grading | Hours/day | 10 | 3.48E-01 | 7.23E-02 | 3.5 | 0.7 |
| Storage Pile Wind Erosion | Acres | 0.037 | 1.72E+01 | 3.57E+00 | 0.6 | 0.1 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | 4.6 | 1.0 |
| Gasoline Tank - Foundation Construction | | | | | | |
| Soil Handling | CY/Day | 750 | 9.94E-04 | 2.07E-04 | 0.7 | 0.2 |
| Storage Pile Wind Erosion | Acres | 0.230 | 1.72E+01 | 3.57E+00 | 3.9 | 0.8 |
| Gasoline Tank - Foundation Construction Total | | | | | 4.7 | 1.0 |
| Gasoline Tank - Foundation Level Survey | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - Foundation Level Survey Total | | | | | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | 0.0 | 0.0 |
| Gasoline Tank - Piping Installation | | | | | | |
| Soil Handling | CY/Day | 50 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.023 | 1.72E+01 | 3.57E+00 | 0.4 | 0.1 |
| Gasoline Tank - Piping Installation Total | | | | | 0.4 | 0.1 |

Table 54
Alternative 2 Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/ activity unit) ^a | | Emissions (lb/day) ^b | |
|---|----------------|----------------|---|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Gasoline Tank - Pump Foundation | | | | | | |
| Soil Handling | CY/Day | 750 | 9.94E-04 | 2.07E-04 | 0.7 | 0.2 |
| Storage Pile Wind Erosion | Acres | 0.037 | 1.72E+01 | 3.57E+00 | 0.6 | 0.1 |
| Gasoline Tank - Pump Foundation Total | | | | | 1.4 | 0.3 |
| Gasoline Tank - Pump Installation | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - Pump Installation Total | | | | | 0.0 | 0.0 |
| Gasoline Tank - Berm Construction | | | | | | |
| Soil Handling | CY/Day | 1,280 | 9.94E-04 | 2.07E-04 | 1.3 | 0.3 |
| Grading | Hours/day | 10 | 3.48E-01 | 7.23E-02 | 3.5 | 0.7 |
| Storage Pile Wind Erosion | Acres | 0.037 | 1.72E+01 | 3.57E+00 | 0.6 | 0.1 |
| Gasoline Tank - Berm Construction Total | | | | | 5.4 | 1.1 |
| Gasoline Tank - Hydrotest | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | 0.0 | 0.0 |
| Gasoline Tank - External Roof Construction | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | 0.0 | 0.0 |

Table 54
Alternative 2 Daily Construction Earthwork Fugitive Particulate Matter Emissions by Construction Phase

| Activity | Activity Units | Activity Level | Emission Factors (lb/activity unit) ^a | | Emissions (lb/day) ^b | |
|--|----------------|----------------|--|----------|---------------------------------|------------|
| | | | PM10 | PM2.5 | PM10 | PM2.5 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | 0.0 | 0.0 |
| Gasoline Tank - External Blasting and Coating | | | | | | |
| Soil Handling | CY/Day | 0 | 9.94E-04 | 2.07E-04 | 0.0 | 0.0 |
| Storage Pile Wind Erosion | Acres | 0.000 | 1.72E+01 | 3.57E+00 | 0.0 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | 0.0 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a From Table 92

^b Emissions [lb/day] = Emission factor [lb/activity unit] x Activity level [activity units]

Table 55
Alternative 2 Daily Construction Surface Coating VOC Emissions by Construction Phase

| Construction Phase | Coatings | | | Clean-Up Solvents | | | Total |
|---|---------------------------------------|--------------------------|-------------------------------------|---------------------------------------|------------------------------------|-------------------------------------|------------------------|
| | Emission Factor (lb/gal) ^a | Amount Applied (gal/day) | VOC Emissions (lb/day) ^b | Emission Factor (lb/gal) ^c | Amount Used (gal/day) ^d | VOC Emissions (lb/day) ^b | VOC Emissions (lb/day) |
| Convert First Tank to Ethanol - Draining and Degassing | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Repairs | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Convert First Tank to Ethanol - Internal Coating | 0 | 125 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| Convert Second Tank to Ethanol - Draining and Degassing | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Convert Second Tank to Ethanol - Internal Coating | 0 | 125 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| Convert Third Tank to Ethanol - Draining and Degassing | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Convert Third Tank to Ethanol - Internal Coating | 0 | 125 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Convert Fourth Tank to Ethanol - Internal Coating | 0 | 125 | 0.0 | -- | -- | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| New Loading Lane - Skid Piping Installation | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| New Loading Lane - Canopy Structure Installation | 0.835 | 5 | 4.2 | 6.18 | 0.625 | 3.9 | 8.0 |
| New Loading Lane - Rack Piping Modifications | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| New Loading Lane - Paving | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.835 | 5 | 4.2 | 6.18 | 0.625 | 3.9 | 8.0 |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Rack Operations Building - Foundations Construction | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | 0.835 | 5 | 4.2 | 6.18 | 0.625 | 3.9 | 8.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - Foundation Construction | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |

**Table 55
Alternative 2 Daily Construction Surface Coating VOC Emissions by Construction Phase**

| Construction Phase | Coatings | | | Clean-Up Solvents | | | Total |
|---|---------------------------------------|--------------------------|-------------------------------------|---------------------------------------|------------------------------------|-------------------------------------|------------------------|
| | Emission Factor (lb/gal) ^a | Amount Applied (gal/day) | VOC Emissions (lb/day) ^b | Emission Factor (lb/gal) ^c | Amount Used (gal/day) ^d | VOC Emissions (lb/day) ^b | VOC Emissions (lb/day) |
| Gasoline Tank - Foundation Level Survey | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - Piping Installation | 0.835 | 4 | 3.3 | 6.18 | 0.5 | 3.1 | 6.4 |
| Gasoline Tank - Pump Foundation | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - Pump Installation | 0.835 | 2 | 1.7 | 6.18 | 0.25 | 1.5 | 3.2 |
| Gasoline Tank - Berm Construction | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - Hydrotest | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - External Roof Construction | -- | 0 | 0.0 | -- | -- | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | 0.835 | 43 | 35.9 | -- | -- | 0.0 | 35.9 |
| Gasoline Tank - External Blasting and Coating | 0.835 | 23 | 19.2 | -- | -- | 0.0 | 19.2 |

^a VOC content limit from SCAQMD Rule 1113 - Architectural Coatings for industrial maintenance coatings, except for new lining

for tank conversion to ethanol, which is a zero VOC coating

^b Emissions [lb/day] = Emission factor [lb/gal] x Amount applied or used [gal/day]

^c From ARB Emission Inventory Methodology 6.3, Architectural Coatings (2003),

<http://www.arb.ca.gov/ei/areasrc/fullpdf/FULL6-3.pdf>

^d Assumed to be one pint clean-up solvent per gallon coating, except for storage tank coating, from ARB Emission Inventory Methodology 6.3, Architectural Coatings (2003),

<http://www.arb.ca.gov/ei/areasrc/fullpdf/FULL6-3.pdf>

Table 56
Alternative 2 Maximum Daily On-Site Construction Emissions by Construction Area

| Area | CO (lb/day) | NOx (lb/day) | Total PM10 (lb/day) | Exhaust PM10 (lb/day) | Fugitive PM10 (lb/day) | Total PM2.5 (lb/day) | Exhaust PM2.5 (lb/day) | Fugitive PM2.5 (lb/day) |
|----------------------|------------------------|-------------------------|------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|--|
| Tank Conversion Area | 133.25 | 259.32 | 41.25 | 13.40 | 27.85 | 15.22 | 12.32 | 2.90 |
| Ethanol Loading Area | 134.36 | 261.85 | 46.64 | 13.53 | 33.10 | 16.24 | 12.44 | 3.80 |
| Gasoline Tank Area | 125.77 | 261.42 | 50.58 | 12.80 | 37.78 | 16.72 | 11.76 | 4.96 |

**Table 57
Alternative 2 Daily On-Site CO Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 7.5 | 7.5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 7.8 | | 7.8 | 7.8 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 17.1 | | | | 17.1 | 17.1 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 33.3 | | | | | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | | 18.8 | 18.8 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 7.5 | 7.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 7.8 | | 7.8 | 7.8 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 17.1 | | | | 17.1 | 17.1 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 33.3 | | | | | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | | 18.8 | 18.8 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 33.3 | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | 7.5 | | | | |
| Convert Third Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | 7.8 | 7.8 | | |
| Convert Third Tank to Ethanol - Lining Removal | 17.1 | | | | | | | | | | | | | | | | | 17.1 |
| Convert Third Tank to Ethanol - Repairs | 33.3 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 33.3 | | | | | | | | | | | | | | 33.3 | 33.3 | 33.3 | 33.3 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | | 7.5 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | | 7.8 | 7.8 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 17.1 | | | | | | | | | | | | | | | | | 17.1 |
| Convert Fourth Tank to Ethanol - Repairs | 33.3 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 33.3 | | | | | | | | | | | | | | | 33.3 | 33.3 | 33.3 |
| Tank Conversion Area Total | | 48.2 | 82.2 | 82.2 | 100.7 | 100.7 | 133.2 | 133.2 | 66.6 | 66.6 | 66.6 | 66.6 | 37.5 | 37.5 | 81.6 | 82.2 | 82.2 | 100.7 |
| New Loading Lane - Skid Piping Installation | 36.5 | 36.5 | 36.5 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 36.5 | | | 36.5 | 36.5 | 36.5 | 36.5 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 33.0 | | | | | | | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | | | | | | |
| New Loading Lane - Paving | 17.4 | | | | | | | | | | | | | 17.4 | 17.4 | 17.4 | 17.4 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 33.3 | | | | | | | | | 33.3 | 33.3 | 33.3 | 33.3 | | | | | |
| Rack Operations Building - Foundations Construction | 36.6 | | | 36.6 | 36.6 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 36.6 | | | | | 36.6 | 36.6 | 36.6 | 36.6 | | | | | | | | | |
| Ethanol Loading Area Total | | 97.7 | 97.7 | 134.4 | 134.4 | 73.2 | 73.2 | 69.7 | 69.7 | 66.3 | 66.3 | 66.3 | 66.3 | 17.4 | 17.4 | 17.4 | 17.4 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 17.7 | 17.7 | 17.7 | 17.7 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 19.2 | | | | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | |
| Gasoline Tank - Foundation Level Survey | 0.3 | | | | | | | | | | | | | | | | | 0.3 |
| Gasoline Tank - Tank Shell Erection | 15.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 36.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 27.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 33.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 12.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 15.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 6.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 63.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 31.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 17.7 | 17.7 | 17.7 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 0.3 |

Note: Totals may not match sum of individual values because of rounding.

Table 57
Alternative 2 Daily On-Site CO Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|------------|-------------|-------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 17.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 33.3 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 33.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 17.1 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 33.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 33.3 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 17.1 | 17.1 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 33.3 | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | 18.8 | 18.8 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 7.5 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 7.8 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 17.1 | 17.1 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 33.3 | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 18.8 | | | | | | | | 18.8 | 18.8 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 33.3 | 33.3 | 33.3 | 33.3 | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 100.7 | 133.2 | 133.2 | 66.6 | 66.6 | 66.6 | 66.6 | 37.5 | 37.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 36.5 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 36.5 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 33.0 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 17.4 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 27.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 33.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 33.3 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 36.6 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 36.6 | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 17.7 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 19.2 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.3 | 0.3 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 15.8 | | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | | | | |
| Gasoline Tank - Piping Installation | 36.5 | | | | | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 | | | | |
| Gasoline Tank - Pump Foundation | 27.9 | | | | | | | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 | | | | |
| Gasoline Tank - Pump Installation | 33.3 | | | | | | | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | | | | |
| Gasoline Tank - Berm Construction | 12.3 | | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | | | | |
| Gasoline Tank - Hydrotest | 15.5 | | | | | | | | | | | | | 15.5 | | | |
| Gasoline Tank - External Roof Construction | 6.6 | | | | | | | | | | | | | | 6.6 | | |
| Gasoline Tank - Internal Blasting and Coating | 63.3 | | | | | | | | | | | | | | | 63.3 | |
| Gasoline Tank - External Blasting and Coating | 31.8 | | | | | | | | | | | | | | | | 31.8 |
| Gasoline Tank Area Total | | 0.3 | 28.1 | 28.1 | 28.1 | 64.6 | 64.6 | 125.8 | 125.8 | 125.8 | 125.8 | 125.8 | 15.8 | 15.5 | 6.6 | 63.3 | 31.8 |

Note: Totals may not match sum of individual values because of rounding.

Table 58
Alternative 2 Daily On-Site NOx Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 13.5 | 13.5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 13.4 | | 13.4 | 13.4 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 57.8 | | | | 57.8 | 57.8 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 64.8 | | | | | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | 54.4 | 54.4 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 13.5 | 13.5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 13.4 | | 13.4 | 13.4 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 57.8 | | | | 57.8 | 57.8 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 64.8 | | | | | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | 54.4 | 54.4 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 64.8 | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | 13.5 | | | | |
| Convert Third Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | 13.4 | 13.4 | | |
| Convert Third Tank to Ethanol - Lining Removal | 57.8 | | | | | | | | | | | | | | | | | 57.8 |
| Convert Third Tank to Ethanol - Repairs | 64.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 64.8 | | | | | | | | | | | | | | 64.8 | 64.8 | 64.8 | 64.8 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | 13.5 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | 13.4 | 13.4 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 57.8 | | | | | | | | | | | | | | | | | 57.8 |
| Convert Fourth Tank to Ethanol - Repairs | 64.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 64.8 | | | | | | | | | | | | | | | 64.8 | 64.8 | 64.8 |
| Tank Conversion Area Total | | 91.7 | 156.4 | 156.4 | 245.3 | 245.3 | 259.3 | 259.3 | 129.7 | 129.7 | 129.7 | 129.7 | 108.8 | 108.8 | 156.6 | 156.4 | 156.4 | 245.3 |
| New Loading Lane - Skid Piping Installation | 68.2 | 68.2 | 68.2 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 68.2 | | | 68.2 | 68.2 | 68.2 | 68.2 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 64.5 | | | | | | | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | | | | | |
| New Loading Lane - Paving | 22.6 | | | | | | | | | | | | | 22.6 | 22.6 | 22.6 | 22.6 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 64.7 | | | | | | | | | 64.7 | 64.7 | 64.7 | 64.7 | | | | | |
| Rack Operations Building - Foundations Construction | 68.6 | | | 68.6 | 68.6 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 68.5 | | | | | 68.5 | 68.5 | 68.5 | 68.5 | | | | | | | | | |
| Ethanol Loading Area Total | | 193.3 | 193.3 | 261.8 | 261.8 | 136.7 | 136.7 | 133.0 | 133.0 | 129.2 | 129.2 | 129.2 | 129.2 | 22.6 | 22.6 | 22.6 | 22.6 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 27.9 | 27.9 | 27.9 | 27.9 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 49.6 | | | | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | |
| Gasoline Tank - Foundation Level Survey | 0.4 | | | | | | | | | | | | | | | | | 0.4 |
| Gasoline Tank - Tank Shell Erection | 38.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 68.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 60.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 64.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 29.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 37.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 23.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 193.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 96.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 27.9 | 27.9 | 27.9 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 0.4 |

Note: Totals may not match sum of individual values because of rounding.

Table 58
Alternative 2 Daily On-Site NOx Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 | |
| Convert First Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 57.8 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 64.8 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 64.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 57.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 64.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 64.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 57.8 | 57.8 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 64.8 | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | 54.4 | 54.4 | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 13.5 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 13.4 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 57.8 | 57.8 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 64.8 | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 54.4 | | | | | | | | 54.4 | 54.4 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 245.3 | 259.3 | 259.3 | 129.7 | 129.7 | 129.7 | 129.7 | 108.8 | 108.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| New Loading Lane - Skid Piping Installation | 68.2 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 68.2 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 64.5 | 57.8 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 22.6 | | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 60.3 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 64.8 | | | | | | | | 54.4 | 54.4 | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 64.7 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 68.6 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 68.5 | | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 27.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 49.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.4 | 0.4 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 38.9 | | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | | | | | |
| Gasoline Tank - Piping Installation | 68.2 | | | | | 68.2 | 68.2 | 68.2 | 68.2 | 68.2 | 68.2 | 68.2 | 68.2 | | | | | |
| Gasoline Tank - Pump Foundation | 60.3 | | | | | | | | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | | | | | |
| Gasoline Tank - Pump Installation | 64.7 | | | | | | | | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | | | | | |
| Gasoline Tank - Berm Construction | 29.4 | | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | | | | | |
| Gasoline Tank - Hydrotest | 37.9 | | | | | | | | | | | | | 37.9 | | | | |
| Gasoline Tank - External Roof Construction | 23.8 | | | | | | | | | | | | | | | 23.8 | | |
| Gasoline Tank - Internal Blasting and Coating | 193.4 | | | | | | | | | | | | | | | | 193.4 | |
| Gasoline Tank - External Blasting and Coating | 96.9 | | | | | | | | | | | | | | | | 96.9 | |
| Gasoline Tank Area Total | | 0.4 | 68.3 | 68.3 | 68.3 | 136.5 | 136.5 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 261.4 | 38.9 | 37.9 | 23.8 | 193.4 | 96.9 |

Note: Totals may not match sum of individual values because of rounding.

**Table 59
Alternative 2 Daily On-Site PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 2.6 | 2.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.6 | | 2.6 | 2.6 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 4.0 | | | | 4.0 | 4.0 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 10.3 | | | | | | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | 3.3 | 3.3 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2.6 | 2.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.6 | | 2.6 | 2.6 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 4.0 | | | | 4.0 | 4.0 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 10.3 | | | | | | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | 3.3 | 3.3 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 10.3 | | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | 2.6 | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | 2.6 | 2.6 | |
| Convert Third Tank to Ethanol - Lining Removal | 4.0 | | | | | | | | | | | | | | | | | 4.0 |
| Convert Third Tank to Ethanol - Repairs | 10.3 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 10.3 | | | | | | | | | | | | | | | 10.3 | 10.3 | 10.3 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | | 2.6 | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | | 2.6 | 2.6 |
| Convert Fourth Tank to Ethanol - Lining Removal | 4.0 | | | | | | | | | | | | | | | | | 4.0 |
| Convert Fourth Tank to Ethanol - Repairs | 10.3 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 10.3 | | | | | | | | | | | | | | | | 10.3 | 10.3 |
| Tank Conversion Area Total | | 15.6 | 25.9 | 25.9 | 28.6 | 28.6 | 41.3 | 41.3 | 20.6 | 20.6 | 20.6 | 20.6 | 6.7 | 6.7 | 25.9 | 25.9 | 25.9 | 28.6 |
| New Loading Lane - Skid Piping Installation | 11.1 | 11.1 | 11.1 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 11.1 | | | 11.1 | 11.1 | 11.1 | 11.1 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 11.0 | | | | | | | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | | | | | |
| New Loading Lane - Paving | 8.4 | | | | | | | | | | | | | 8.4 | 8.4 | 8.4 | 8.4 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 10.0 | | | | | | | | | 10.0 | 10.0 | 10.0 | 10.0 | | | | | |
| Rack Operations Building - Foundations Construction | 14.1 | | | 14.1 | 14.1 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 11.8 | | | | | 11.8 | 11.8 | 11.8 | 11.8 | | | | | | | | | |
| Ethanol Loading Area Total | | 32.5 | 32.5 | 46.6 | 46.6 | 22.9 | 22.9 | 22.8 | 22.8 | 20.9 | 20.9 | 20.9 | 20.9 | 8.4 | 8.4 | 8.4 | 8.4 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 12.2 | 12.2 | 12.2 | 12.2 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 11.1 | | | | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | |
| Gasoline Tank - Foundation Level Survey | 4.0 | | | | | | | | | | | | | | | | | 4.0 |
| Gasoline Tank - Tank Shell Erection | 6.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 11.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 10.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 10.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 12.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 2.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 4.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 7.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 4.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 12.2 | 12.2 | 12.2 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 4.0 |

Note: Totals may not match sum of individual values because of rounding.

Table 59
Alternative 2 Daily On-Site PM10 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 4.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 10.3 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 10.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 4.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 10.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 10.3 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 4.0 | 4.0 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 10.3 | | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | 3.3 | 3.3 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2.6 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.6 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 4.0 | 4.0 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 10.3 | | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 3.3 | | | | | | | | 3.3 | 3.3 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 10.3 | 10.3 | 10.3 | 10.3 | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 28.6 | 41.3 | 41.3 | 20.6 | 20.6 | 20.6 | 20.6 | 6.7 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 11.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 11.1 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 11.0 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 8.4 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 10.7 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 10.8 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 10.0 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 14.1 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 11.8 | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 12.2 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 11.1 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 4.0 | 4.0 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 6.3 | | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | | | | |
| Gasoline Tank - Piping Installation | 11.1 | | | | | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | | | | |
| Gasoline Tank - Pump Foundation | 10.7 | | | | | | | | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | | | | |
| Gasoline Tank - Pump Installation | 10.0 | | | | | | | | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | | | | |
| Gasoline Tank - Berm Construction | 12.5 | | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | | | | |
| Gasoline Tank - Hydrotest | 2.6 | | | | | | | | | | | | | | 2.6 | | |
| Gasoline Tank - External Roof Construction | 4.9 | | | | | | | | | | | | | | | 4.9 | |
| Gasoline Tank - Internal Blasting and Coating | 7.5 | | | | | | | | | | | | | | | | 7.5 |
| Gasoline Tank - External Blasting and Coating | 4.3 | | | | | | | | | | | | | | | | 4.3 |
| Gasoline Tank Area Total | | 4.0 | 18.9 | 18.9 | 18.9 | 29.9 | 29.9 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 6.3 | 2.6 | 4.9 | 7.5 | 4.3 |

Note: Totals may not match sum of individual values because of rounding.

**Table 60
Alternative 2 Daily On-Site Exhaust PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.7 | | 0.7 | 0.7 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.8 | | | | 1.8 | 1.8 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.3 | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | 1.9 | 1.9 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.7 | | 0.7 | 0.7 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.8 | | | | 1.8 | 1.8 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.3 | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | 1.9 | 1.9 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.3 | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | 0.0 | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | 0.7 | 0.7 | |
| Convert Third Tank to Ethanol - Lining Removal | 1.8 | | | | | | | | | | | | | | | | | 1.8 |
| Convert Third Tank to Ethanol - Repairs | 3.3 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.3 | | | | | | | | | | | | | | | 3.3 | 3.3 | 3.3 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | 0.0 | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | | 0.7 | 0.7 |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.8 | | | | | | | | | | | | | | | | | 1.8 |
| Convert Fourth Tank to Ethanol - Repairs | 3.3 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.3 | | | | | | | | | | | | | | | | 3.3 | 3.3 |
| Tank Conversion Area Total | | 3.4 | 8.1 | 8.1 | 10.3 | 10.3 | 13.4 | 13.4 | 6.7 | 6.7 | 6.7 | 6.7 | 3.8 | 3.8 | 6.7 | 8.1 | 8.1 | 10.3 |
| New Loading Lane - Skid Piping Installation | 3.6 | 3.6 | 3.6 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 3.6 | | | 3.6 | 3.6 | 3.6 | 3.6 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.3 | | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | |
| New Loading Lane - Paving | 1.7 | | | | | | | | | | | | | 1.7 | 1.7 | 1.7 | 1.7 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.3 | | | | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | | | | | |
| Rack Operations Building - Foundations Construction | 3.7 | | | 3.7 | 3.7 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 3.7 | | | | | 3.7 | 3.7 | 3.7 | 3.7 | | | | | | | | | |
| Ethanol Loading Area Total | | 9.9 | 9.9 | 13.5 | 13.5 | 7.3 | 7.3 | 7.0 | 7.0 | 6.7 | 6.7 | 6.7 | 6.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.7 | 1.7 | 1.7 | 1.7 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 2.0 | | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |
| Gasoline Tank - Foundation Level Survey | 0.0 | | | | | | | | | | | | | | | | | 0.0 |
| Gasoline Tank - Tank Shell Erection | 1.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 3.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 2.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 3.3 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 1.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 1.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 0.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 6.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 3.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 1.7 | 1.7 | 1.7 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

Table 60
Alternative 2 Daily On-Site Exhaust PM10 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.3 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.3 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.3 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 1.8 | 1.8 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 3.3 | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | 1.9 | 1.9 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.7 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.8 | 1.8 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 3.3 | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | 1.9 | 1.9 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.3 | 3.3 | 3.3 | 3.3 | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 10.3 | 13.4 | 13.4 | 6.7 | 6.7 | 6.7 | 6.7 | 3.8 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 3.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 3.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 1.7 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 2.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.3 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.3 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 3.7 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 3.7 | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.7 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 2.0 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.0 | 0.0 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 1.6 | | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | | | | |
| Gasoline Tank - Piping Installation | 3.6 | | | | | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | | | | |
| Gasoline Tank - Pump Foundation | 2.9 | | | | | | | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | | | | |
| Gasoline Tank - Pump Installation | 3.3 | | | | | | | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | | | |
| Gasoline Tank - Berm Construction | 1.4 | | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | | | | |
| Gasoline Tank - Hydrotest | 1.5 | | | | | | | | | | | | | 1.5 | | | |
| Gasoline Tank - External Roof Construction | 0.8 | | | | | | | | | | | | | | 0.8 | | |
| Gasoline Tank - Internal Blasting and Coating | 6.4 | | | | | | | | | | | | | | | 6.4 | |
| Gasoline Tank - External Blasting and Coating | 3.2 | | | | | | | | | | | | | | | | 3.2 |
| Gasoline Tank Area Total | | 0.0 | 2.9 | 2.9 | 2.9 | 6.6 | 6.6 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 1.6 | 1.5 | 0.8 | 6.4 | 3.2 |

Note: Totals may not match sum of individual values because of rounding.

**Table 61
Alternative 2 Daily On-Site Fugitive PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 2.0 | 2.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.0 | | 2.0 | 2.0 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 2.2 | | | | 2.2 | 2.2 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 7.0 | | | | | | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | | 1.4 | 1.4 | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2.0 | 2.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.0 | | 2.0 | 2.0 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 2.2 | | | | 2.2 | 2.2 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 7.0 | | | | | | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | | 1.4 | 1.4 | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 7.0 | | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | 2.0 | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | 2.0 | 2.0 | |
| Convert Third Tank to Ethanol - Lining Removal | 2.2 | | | | | | | | | | | | | | | | | 2.2 |
| Convert Third Tank to Ethanol - Repairs | 7.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 7.0 | | | | | | | | | | | | | | | 7.0 | 7.0 | 7.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | | 2.0 | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | | 2.0 | 2.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | 2.2 | | | | | | | | | | | | | | | | | 2.2 |
| Convert Fourth Tank to Ethanol - Repairs | 7.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 7.0 | | | | | | | | | | | | | | | | 7.0 | 7.0 |
| Tank Conversion Area Total | | 10.9 | 17.9 | 17.9 | 18.3 | 18.3 | 27.9 | 27.9 | 13.9 | 13.9 | 13.9 | 13.9 | 2.8 | 2.8 | 17.9 | 17.9 | 17.9 | 18.3 |
| New Loading Lane - Skid Piping Installation | 7.4 | 7.4 | 7.4 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 7.4 | | | 7.4 | 7.4 | 7.4 | 7.4 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 7.7 | | | | | | | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | | | | | |
| New Loading Lane - Paving | 6.7 | | | | | | | | | | | | | 6.7 | 6.7 | 6.7 | 6.7 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 6.6 | | | | | | | | | 6.6 | 6.6 | 6.6 | 6.6 | | | | | |
| Rack Operations Building - Foundations Construction | 10.5 | | | 10.5 | 10.5 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 8.1 | | | | | 8.1 | 8.1 | 8.1 | 8.1 | | | | | | | | | |
| Ethanol Loading Area Total | | 22.6 | 22.6 | 33.1 | 33.1 | 15.6 | 15.6 | 15.8 | 15.8 | 14.3 | 14.3 | 14.3 | 14.3 | 6.7 | 6.7 | 6.7 | 6.7 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 10.5 | 10.5 | 10.5 | 10.5 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 9.1 | | | | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | |
| Gasoline Tank - Foundation Level Survey | 4.0 | | | | | | | | | | | | | | | | | 4.0 |
| Gasoline Tank - Tank Shell Erection | 4.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 7.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 7.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 6.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 11.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 1.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 4.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 1.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 1.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 10.5 | 10.5 | 10.5 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 4.0 |

Note: Totals may not match sum of individual values because of rounding.

**Table 61
Alternative 2 Daily On-Site Fugitive PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 2.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 7.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 7.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 2.2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 7.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 7.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 2.2 | 2.2 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 7.0 | | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | 1.4 | 1.4 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.0 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 2.2 | 2.2 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 7.0 | | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.4 | | | | | | | | 1.4 | 1.4 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 18.3 | 27.9 | 27.9 | 13.9 | 13.9 | 13.9 | 13.9 | 2.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 7.4 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 7.4 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 7.7 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 6.7 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 7.8 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 7.4 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 6.6 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 10.5 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 8.1 | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 10.5 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 9.1 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 4.0 | 4.0 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 4.8 | | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | | | | |
| Gasoline Tank - Piping Installation | 7.4 | | | | | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | | | | |
| Gasoline Tank - Pump Foundation | 7.8 | | | | | | | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | | | | |
| Gasoline Tank - Pump Installation | 6.6 | | | | | | | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | | | | |
| Gasoline Tank - Berm Construction | 11.2 | | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | | | | |
| Gasoline Tank - Hydrotest | 1.1 | | | | | | | | | | | | | 1.1 | | | |
| Gasoline Tank - External Roof Construction | 4.1 | | | | | | | | | | | | | | 4.1 | | |
| Gasoline Tank - Internal Blasting and Coating | 1.1 | | | | | | | | | | | | | | | 1.1 | |
| Gasoline Tank - External Blasting and Coating | 1.1 | | | | | | | | | | | | | | | | 1.1 |
| Gasoline Tank Area Total | | 4.0 | 15.9 | 15.9 | 15.9 | 23.3 | 23.3 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 4.8 | 1.1 | 4.1 | 1.1 |

Note: Totals may not match sum of individual values because of rounding.

Table 62
Alternative 2 Daily On-Site PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.9 | 0.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.8 | | 0.8 | 0.8 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.9 | | | | 1.9 | 1.9 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.8 | | | | | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | 1.9 | 1.9 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.9 | 0.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.8 | | 0.8 | 0.8 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.9 | | | | 1.9 | 1.9 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.8 | | | | | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | 1.9 | 1.9 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.8 | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | 0.9 | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | 0.8 | 0.8 | | |
| Convert Third Tank to Ethanol - Lining Removal | 1.9 | | | | | | | | | | | | | | | | | 1.9 |
| Convert Third Tank to Ethanol - Repairs | 3.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.8 | | | | | | | | | | | | | | 3.8 | 3.8 | 3.8 | 3.8 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | 0.9 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | 0.8 | 0.8 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.9 | | | | | | | | | | | | | | | | | 1.9 |
| Convert Fourth Tank to Ethanol - Repairs | 3.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.8 | | | | | | | | | | | | | | | 3.8 | 3.8 | 3.8 |
| Tank Conversion Area Total | | 5.5 | 9.3 | 9.3 | 11.4 | 11.4 | 15.2 | 15.2 | 7.6 | 7.6 | 7.6 | 7.6 | 3.9 | 3.9 | 9.3 | 9.3 | 9.3 | 11.4 |
| New Loading Lane - Skid Piping Installation | 4.2 | 4.2 | 4.2 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 4.2 | | | 4.2 | 4.2 | 4.2 | 4.2 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.9 | | | | | | | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | | | | | |
| New Loading Lane - Paving | 2.4 | | | | | | | | | | | | | 2.4 | 2.4 | 2.4 | 2.4 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.7 | | | | | | | | | 3.7 | 3.7 | 3.7 | 3.7 | | | | | |
| Rack Operations Building - Foundations Construction | 4.6 | | | 4.6 | 4.6 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 4.3 | | | | | 4.3 | 4.3 | 4.3 | 4.3 | | | | | | | | | |
| Ethanol Loading Area Total | | 11.7 | 11.7 | 16.2 | 16.2 | 8.5 | 8.5 | 8.2 | 8.2 | 7.6 | 7.6 | 7.6 | 7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 3.2 | 3.2 | 3.2 | 3.2 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 3.4 | | | | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | |
| Gasoline Tank - Foundation Level Survey | 0.4 | | | | | | | | | | | | | | | | | 0.4 |
| Gasoline Tank - Tank Shell Erection | 2.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 4.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 3.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 3.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 3.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 1.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 1.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 6.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 3.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 3.2 | 3.2 | 3.2 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 0.4 |

Note: Totals may not match sum of individual values because of rounding.

Table 62
Alternative 2 Daily On-Site PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.8 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.8 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 1.9 | 1.9 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 3.8 | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | 1.9 | 1.9 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.9 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.8 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.9 | 1.9 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 3.8 | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.9 | | | | | | | | 1.9 | 1.9 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.8 | 3.8 | 3.8 | 3.8 | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 11.4 | 15.2 | 15.2 | 7.6 | 7.6 | 7.6 | 7.6 | 3.9 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 4.2 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 4.2 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 2.4 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 3.6 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.9 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.7 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 4.6 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 4.3 | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 3.2 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 3.4 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.4 | 0.4 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 2.0 | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | |
| Gasoline Tank - Piping Installation | 4.2 | | | | | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | | | | |
| Gasoline Tank - Pump Foundation | 3.6 | | | | | | | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | | | | |
| Gasoline Tank - Pump Installation | 3.7 | | | | | | | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | | | | |
| Gasoline Tank - Berm Construction | 3.2 | | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | | | | |
| Gasoline Tank - Hydrotest | 1.5 | | | | | | | | | | | | | 1.5 | | | |
| Gasoline Tank - External Roof Construction | 1.2 | | | | | | | | | | | | | | 1.2 | | |
| Gasoline Tank - Internal Blasting and Coating | 6.0 | | | | | | | | | | | | | | | 6.0 | |
| Gasoline Tank - External Blasting and Coating | 3.1 | | | | | | | | | | | | | | | | 3.1 |
| Gasoline Tank Area Total | | 0.4 | 5.2 | 5.2 | 5.2 | 9.4 | 9.4 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 2.0 | 1.5 | 1.2 | 6.0 |

Note: Totals may not match sum of individual values because of rounding.

**Table 63
Alternative 2 Daily On-Site Exhaust PM2.5 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|-------------|-------------|------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.6 | | 0.6 | 0.6 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.7 | | | | 1.7 | 1.7 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.1 | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | 1.8 | 1.8 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.6 | | 0.6 | 0.6 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.7 | | | | 1.7 | 1.7 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.1 | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | 1.8 | 1.8 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.1 | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | 0.0 | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | 0.6 | 0.6 | | |
| Convert Third Tank to Ethanol - Lining Removal | 1.7 | | | | | | | | | | | | | | | | | 1.7 |
| Convert Third Tank to Ethanol - Repairs | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.1 | | | | | | | | | | | | | | 3.1 | 3.1 | 3.1 | 3.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | 0.0 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | 0.6 | 0.6 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.7 | | | | | | | | | | | | | | | | | 1.7 |
| Convert Fourth Tank to Ethanol - Repairs | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.1 | | | | | | | | | | | | | | | 3.1 | 3.1 | 3.1 |
| Tank Conversion Area Total | | 3.1 | 7.4 | 7.4 | 9.5 | 9.5 | 12.3 | 12.3 | 6.2 | 6.2 | 6.2 | 6.2 | 3.5 | 3.5 | 6.2 | 7.4 | 7.4 | 9.5 |
| New Loading Lane - Skid Piping Installation | 3.4 | 3.4 | 3.4 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 3.4 | | | 3.4 | 3.4 | 3.4 | 3.4 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.1 | | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | |
| New Loading Lane - Paving | 1.6 | | | | | | | | | | | | | 1.6 | 1.6 | 1.6 | 1.6 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.1 | | | | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | | | | | |
| Rack Operations Building - Foundations Construction | 3.4 | | | 3.4 | 3.4 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 3.4 | | | | | 3.4 | 3.4 | 3.4 | 3.4 | | | | | | | | | |
| Ethanol Loading Area Total | | 9.1 | 9.1 | 12.4 | 12.4 | 6.7 | 6.7 | 6.4 | 6.4 | 6.1 | 6.1 | 6.1 | 6.1 | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.6 | 1.6 | 1.6 | 1.6 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 1.9 | | | | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | |
| Gasoline Tank - Foundation Level Survey | 0.0 | | | | | | | | | | | | | | | | | 0.0 |
| Gasoline Tank - Tank Shell Erection | 1.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 3.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 2.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 3.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 1.2 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 1.4 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 0.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 5.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 3.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 1.6 | 1.6 | 1.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

Table 63
Alternative 2 Daily On-Site Exhaust PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 | |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 1.7 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 3.1 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 1.7 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 1.7 | 1.7 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 3.1 | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | 1.8 | 1.8 | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 1.7 | 1.7 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 3.1 | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 1.8 | | | | | | | | 1.8 | 1.8 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 3.1 | 3.1 | 3.1 | 3.1 | | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 9.5 | 12.3 | 12.3 | 6.2 | 6.2 | 6.2 | 6.2 | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| New Loading Lane - Skid Piping Installation | 3.4 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 3.4 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 3.1 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 1.6 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 2.6 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 3.1 | | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 3.1 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 3.4 | | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 3.4 | | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 1.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 1.4 | | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | | | | | |
| Gasoline Tank - Piping Installation | 3.4 | | | | | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | | | | | |
| Gasoline Tank - Pump Foundation | 2.6 | | | | | | | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | | | | | |
| Gasoline Tank - Pump Installation | 3.1 | | | | | | | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | | | | | |
| Gasoline Tank - Berm Construction | 1.2 | | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | | | | | |
| Gasoline Tank - Hydrotest | 1.4 | | | | | | | | | | | | | 1.4 | | | | |
| Gasoline Tank - External Roof Construction | 0.7 | | | | | | | | | | | | | | 0.7 | | | |
| Gasoline Tank - Internal Blasting and Coating | 5.9 | | | | | | | | | | | | | | | 5.9 | | |
| Gasoline Tank - External Blasting and Coating | 3.0 | | | | | | | | | | | | | | | | 3.0 | |
| Gasoline Tank Area Total | | 0.0 | 2.7 | 2.7 | 2.7 | 6.0 | 6.0 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 1.4 | 1.4 | 0.7 | 5.9 | 3.0 |

Note: Totals may not match sum of individual values because of rounding.

**Table 64
Alternative 2 Daily On-Site Fugitive PM2.5 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.2 | 0.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.2 | | 0.2 | 0.2 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 0.2 | | | | 0.2 | 0.2 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 0.7 | | | | | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | 0.2 | 0.2 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.2 | 0.2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.2 | | 0.2 | 0.2 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 0.2 | | | | 0.2 | 0.2 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 0.7 | | | | | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | 0.2 | 0.2 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.7 | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | 0.2 | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | 0.2 | 0.2 | | |
| Convert Third Tank to Ethanol - Lining Removal | 0.2 | | | | | | | | | | | | | | | | 0.2 | |
| Convert Third Tank to Ethanol - Repairs | 0.7 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.7 | | | | | | | | | | | | | | 0.7 | 0.7 | 0.7 | 0.7 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | 0.2 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | 0.2 | 0.2 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 0.2 | | | | | | | | | | | | | | | | | 0.2 |
| Convert Fourth Tank to Ethanol - Repairs | 0.7 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.7 | | | | | | | | | | | | | | | 0.7 | 0.7 | 0.7 |
| Tank Conversion Area Total | | 1.1 | 1.9 | 1.9 | 1.9 | 1.9 | 2.9 | 2.9 | 1.4 | 1.4 | 1.4 | 1.4 | 0.3 | 0.3 | 1.9 | 1.9 | 1.9 | 1.9 |
| New Loading Lane - Skid Piping Installation | 0.8 | 0.8 | 0.8 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 0.8 | | | 0.8 | 0.8 | 0.8 | 0.8 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 0.8 | | | | | | | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | | | | | |
| New Loading Lane - Paving | 0.8 | | | | | | | | | | | | | 0.8 | 0.8 | 0.8 | 0.8 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.7 | | | | | | | | | 0.7 | 0.7 | 0.7 | 0.7 | | | | | |
| Rack Operations Building - Foundations Construction | 1.2 | | | 1.2 | 1.2 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 0.9 | | | | | 0.9 | 0.9 | 0.9 | 0.9 | | | | | | | | | |
| Ethanol Loading Area Total | | 2.6 | 2.6 | 3.8 | 3.8 | 1.7 | 1.7 | 1.8 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.6 | 1.6 | 1.6 | 1.6 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 1.5 | | | | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| Gasoline Tank - Foundation Level Survey | 0.4 | | | | | | | | | | | | | | | | | 0.4 |
| Gasoline Tank - Tank Shell Erection | 0.6 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 0.8 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 1.0 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 0.7 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 1.9 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotest | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 0.5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 0.1 | | | | | | | | | | | | | | | | | |
| Gasoline Tank Area Total | | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.4 |

Note: Totals may not match sum of individual values because of rounding.

Table 64
Alternative 2 Daily On-Site Fugitive PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-50 | 51-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 0.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 0.7 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 0.7 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 0.2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 0.7 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.7 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 0.2 | 0.2 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 0.7 | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | 0.2 | 0.2 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.2 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.2 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 0.2 | 0.2 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 0.7 | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 0.2 | | | | | | | | 0.2 | 0.2 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | | | | | | |
| Tank Conversion Area Total | | 1.9 | 2.9 | 2.9 | 1.4 | 1.4 | 1.4 | 1.4 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation | 0.8 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 0.8 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 0.8 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 0.8 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 1.0 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.8 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.7 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 1.2 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 0.9 | | | | | | | | | | | | | | | | |
| Ethanol Loading Area Total | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 1.6 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 1.5 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 0.4 | 0.4 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 0.6 | | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | | | | |
| Gasoline Tank - Piping Installation | 0.8 | | | | | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | | | | |
| Gasoline Tank - Pump Foundation | 1.0 | | | | | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | | |
| Gasoline Tank - Pump Installation | 0.7 | | | | | | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | |
| Gasoline Tank - Berm Construction | 1.9 | | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | | | | |
| Gasoline Tank - Hydrotect | 0.1 | | | | | | | | | | | | | 0.1 | | | |
| Gasoline Tank - External Roof Construction | 0.5 | | | | | | | | | | | | | | 0.5 | | |
| Gasoline Tank - Internal Blasting and Coating | 0.1 | | | | | | | | | | | | | | | 0.1 | |
| Gasoline Tank - External Blasting and Coating | 0.1 | | | | | | | | | | | | | | | | 0.1 |
| Gasoline Tank Area Total | | 0.4 | 2.5 | 2.5 | 2.5 | 3.3 | 3.3 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 0.6 | 0.1 | 0.5 | 0.1 |

Note: Totals may not match sum of individual values because of rounding.

Table 65
Alternative 2 Construction Greenhouse Gas
Emissions Summary

| Source | Emissions (MT CO₂e) |
|---------------------------------------|---|
| Construction Equipment Exhaust | 2,534.3 |
| On-Site Motor Vehicle Exhaust | 57.5 |
| Thermal Oxidizer | 25.3 |
| Off-Site Motor Vehicle Exhaust | 2,285.9 |
| Water conveyance electrical power use | 29.1 |
| Total | 4,932.1 |

Note: Totals may not match sum of individual values because of rounding.

Table 66
Alternative 2 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|---|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert First Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| Convert First Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert First Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| Convert First Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert First Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |
| Convert First Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert First Tank to Ethanol - Repairs Total | 140 | 0 | 140 |
| Convert First Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert First Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |

Table 66
Alternative 2 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert First Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert First Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| Convert Second Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert Second Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| Convert Second Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert Second Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |
| Convert Second Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert Second Tank to Ethanol - Repairs Total | 140 | 0 | 140 |

Table 66
Alternative 2 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert Second Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert Second Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| Convert Third Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert Third Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| Convert Third Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert Third Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |

Table 66
Alternative 2 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert Third Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert Third Tank to Ethanol - Repairs Total | 140 | 0 | 140 |
| | | | |
| Convert Third Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert Third Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |
| | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| | | | |
| Convert Fourth Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert Fourth Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| | | | |

Table 66
Alternative 2 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert Fourth Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |
| Convert Fourth Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert Fourth Tank to Ethanol - Repairs Total | 140 | 0 | 140 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| New Loading Lane - Skid Piping Installation | | | |
| Construction Equipment Exhaust | 34 | 0 | 34 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| New Loading Lane - Skid Piping Installation Total | 48 | 0 | 48 |

Table 66
Alternative 2 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|---|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| New Loading Lane - Canopy Structure Installation | | | |
| Construction Equipment Exhaust | 67 | 0 | 68 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 28 | 0 | 28 |
| New Loading Lane - Canopy Structure Installation Total | 96 | 0 | 96 |
| New Loading Lane - Rack Piping Modifications | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 70 | 0 | 71 |
| New Loading Lane - Rack Piping Modifications Total | 169 | 0 | 169 |
| New Loading Lane - Paving | | | |
| Construction Equipment Exhaust | 20 | 0 | 20 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 76 | 0 | 76 |
| New Loading Lane - Paving Total | 97 | 0 | 98 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | |
| Construction Equipment Exhaust | 60 | 0 | 60 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 24 | 0 | 24 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | 85 | 0 | 86 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | |
| Construction Equipment Exhaust | 64 | 0 | 64 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 28 | 0 | 28 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | 93 | 0 | 93 |

Table 66
Alternative 2 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|---|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| New Loading Lane - Ethanol Pumps Pump Installation | | | |
| Construction Equipment Exhaust | 64 | 0 | 64 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 18 | 0 | 18 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | 83 | 0 | 83 |
| Rack Operations Building - Foundations Construction | | | |
| Construction Equipment Exhaust | 34 | 0 | 34 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 23 | 0 | 24 |
| Rack Operations Building - Foundations Construction Total | 58 | 0 | 58 |
| Rack Operations Building - Demolition and Building Construction | | | |
| Construction Equipment Exhaust | 67 | 0 | 68 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 47 | 0 | 47 |
| Rack Operations Building - Demolition and Building Construction Total | 116 | 0 | 116 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | |
| Construction Equipment Exhaust | 11 | 0 | 11 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | 54 | 0 | 54 |
| Gasoline Tank - Foundation Construction | | | |
| Construction Equipment Exhaust | 179 | 0 | 180 |
| On-Site Motor Vehicle Exhaust | 5 | 0 | 5 |
| Off-Site Motor Vehicle Exhaust | 246 | 0 | 246 |
| Gasoline Tank - Foundation Construction Total | 431 | 0 | 431 |

Table 66
Alternative 2 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Gasoline Tank - Foundation Level Survey | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 12 | 0 | 12 |
| Gasoline Tank - Foundation Level Survey Total | 13 | 0 | 13 |
| Gasoline Tank - Tank Shell Erection | | | |
| Construction Equipment Exhaust | 334 | 0 | 334 |
| On-Site Motor Vehicle Exhaust | 13 | 0 | 13 |
| Off-Site Motor Vehicle Exhaust | 605 | 0 | 606 |
| Gasoline Tank - Tank Shell Erection Total | 953 | 0 | 954 |
| Gasoline Tank - Piping Installation | | | |
| Construction Equipment Exhaust | 118 | 0 | 118 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Gasoline Tank - Piping Installation Total | 168 | 0 | 169 |
| Gasoline Tank - Pump Foundation | | | |
| Construction Equipment Exhaust | 60 | 0 | 60 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 24 | 0 | 24 |
| Gasoline Tank - Pump Foundation Total | 85 | 0 | 86 |
| Gasoline Tank - Pump Installation | | | |
| Construction Equipment Exhaust | 64 | 0 | 64 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 18 | 0 | 18 |
| Gasoline Tank - Pump Installation Total | 83 | 0 | 83 |

Table 66
Alternative 2 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Gasoline Tank - Berm Construction | | | |
| Construction Equipment Exhaust | 62 | 0 | 62 |
| On-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Off-Site Motor Vehicle Exhaust | 366 | 0 | 366 |
| Gasoline Tank - Berm Construction Total | 435 | 0 | 435 |
| | | | |
| Gasoline Tank - Hydrotest | | | |
| Construction Equipment Exhaust | 73 | 0 | 73 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 32 | 0 | 32 |
| Water conveyance electrical power use | 29 | 0 | 29 |
| Gasoline Tank - Hydrotest Total | 135 | 0 | 135 |
| | | | |
| Gasoline Tank - External Roof Construction | | | |
| Construction Equipment Exhaust | 39 | 0 | 39 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 99 | 0 | 99 |
| Gasoline Tank - External Roof Construction Total | 140 | 0 | 140 |
| | | | |
| Gasoline Tank - Internal Blasting and Coating | | | |
| Construction Equipment Exhaust | 77 | 0 | 77 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 10 | 0 | 10 |
| Gasoline Tank - Internal Blasting and Coating Total | 87 | 0 | 87 |
| | | | |

Table 66
Alternative 2 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Gasoline Tank - External Blasting and Coating | | | |
| Construction Equipment Exhaust | 132 | 0 | 132 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 33 | 0 | 33 |
| Gasoline Tank - External Blasting and Coating Total | 166 | 0 | 166 |
| | | | |
| Total Construction Emissions | 4,574 | 0 | 4,580 |

Note: Totals may not match sum of individual values because of rounding.

^a Emissions [MT CO₂e] = CO₂ emissions [MT] + 21 x CH₄ emissions [MT]

**Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 10 | 140 | 0.0135 | 6.4 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | 6.4 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 9 | 131 | 0.0096 | 10.7 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 9 | 213 | 0.0115 | 8.7 | 0.0 |
| Vacuum System | 210 | 1 | 10 | 9 | 254 | 0.0137 | 10.4 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | 29.8 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 30 | 180 | 0.0148 | 49.0 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 30 | 112 | 0.0100 | 15.3 | 0.0 |
| Backhoe | 90 | 1 | 10 | 30 | 52 | 0.0069 | 7.0 | 0.0 |
| Loader | 175 | 1 | 10 | 30 | 106 | 0.0118 | 14.5 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 30 | 26 | 0.0097 | 10.6 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | 96.4 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 10 | 131 | 0.0096 | 11.9 | 0.0 |
| 125 kW Generator | 175 | 1 | 10 | 6 | 142 | 0.0132 | 3.9 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 10 | 213 | 0.0115 | 9.7 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | 25.4 | 0.0 |

Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 35 | 180 | 0.0148 | 57.2 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| Backhoe | 90 | 1 | 10 | 35 | 52 | 0.0069 | 8.2 | 0.0 |
| Loader | 175 | 1 | 10 | 35 | 106 | 0.0118 | 16.9 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 35 | 26 | 0.0097 | 12.4 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | 112.4 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 10 | 140 | 0.0135 | 6.4 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | 6.4 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 9 | 131 | 0.0096 | 10.7 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 9 | 213 | 0.0115 | 8.7 | 0.0 |
| Vacuum System | 210 | 1 | 10 | 9 | 254 | 0.0137 | 10.4 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | 29.8 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 30 | 180 | 0.0148 | 49.0 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 30 | 112 | 0.0100 | 15.3 | 0.0 |
| Backhoe | 90 | 1 | 10 | 30 | 52 | 0.0069 | 7.0 | 0.0 |
| Loader | 175 | 1 | 10 | 30 | 106 | 0.0118 | 14.5 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 30 | 26 | 0.0097 | 10.6 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | 96.4 | 0.0 |

Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 10 | 131 | 0.0096 | 11.9 | 0.0 |
| 125 kW Generator | 175 | 1 | 10 | 6 | 142 | 0.0132 | 3.9 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 10 | 213 | 0.0115 | 9.7 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | 25.4 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 35 | 180 | 0.0148 | 57.2 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| Backhoe | 90 | 1 | 10 | 35 | 52 | 0.0069 | 8.2 | 0.0 |
| Loader | 175 | 1 | 10 | 35 | 106 | 0.0118 | 16.9 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 35 | 26 | 0.0097 | 12.4 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | 112.4 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 10 | 140 | 0.0135 | 6.4 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | 6.4 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 9 | 131 | 0.0096 | 10.7 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 9 | 213 | 0.0115 | 8.7 | 0.0 |
| Vacuum System | 210 | 1 | 10 | 9 | 254 | 0.0137 | 10.4 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | 29.8 | 0.0 |

Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 30 | 180 | 0.0148 | 49.0 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 30 | 112 | 0.0100 | 15.3 | 0.0 |
| Backhoe | 90 | 1 | 10 | 30 | 52 | 0.0069 | 7.0 | 0.0 |
| Loader | 175 | 1 | 10 | 30 | 106 | 0.0118 | 14.5 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 30 | 26 | 0.0097 | 10.6 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | 96.4 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 10 | 131 | 0.0096 | 11.9 | 0.0 |
| 125 kW Generator | 175 | 1 | 10 | 6 | 142 | 0.0132 | 3.9 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 10 | 213 | 0.0115 | 9.7 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | 25.4 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 35 | 180 | 0.0148 | 57.2 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| Backhoe | 90 | 1 | 10 | 35 | 52 | 0.0069 | 8.2 | 0.0 |
| Loader | 175 | 1 | 10 | 35 | 106 | 0.0118 | 16.9 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 35 | 26 | 0.0097 | 12.4 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | 112.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | |
| Hydraulic Power Unit | 175 | 1 | 10 | 10 | 140 | 0.0135 | 6.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | 6.4 | 0.0 |

Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 9 | 131 | 0.0096 | 10.7 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 9 | 213 | 0.0115 | 8.7 | 0.0 |
| Vacuum System | 210 | 1 | 10 | 9 | 254 | 0.0137 | 10.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | 29.8 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 30 | 180 | 0.0148 | 49.0 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 30 | 112 | 0.0100 | 15.3 | 0.0 |
| Backhoe | 90 | 1 | 10 | 30 | 52 | 0.0069 | 7.0 | 0.0 |
| Loader | 175 | 1 | 10 | 30 | 106 | 0.0118 | 14.5 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 30 | 26 | 0.0097 | 10.6 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | 96.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | |
| 825 psig Air Compressor | 250 | 2 | 10 | 10 | 131 | 0.0096 | 11.9 | 0.0 |
| 125 kW Generator | 175 | 1 | 10 | 6 | 142 | 0.0132 | 3.9 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 10 | 213 | 0.0115 | 9.7 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | 25.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 35 | 180 | 0.0148 | 57.2 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| Backhoe | 90 | 1 | 10 | 35 | 52 | 0.0069 | 8.2 | 0.0 |
| Loader | 175 | 1 | 10 | 35 | 106 | 0.0118 | 16.9 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 35 | 26 | 0.0097 | 12.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | 112.4 | 0.0 |

Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Skid Piping Installation | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 10 | 180 | 0.0148 | 16.3 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 10 | 112 | 0.0100 | 5.1 | 0.0 |
| Backhoe | 90 | 1 | 10 | 10 | 52 | 0.0069 | 2.3 | 0.0 |
| Loader | 175 | 1 | 10 | 10 | 106 | 0.0118 | 4.8 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 10 | 26 | 0.0097 | 3.5 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 10 | 34 | 0.0104 | 1.6 | 0.0 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | 33.7 | 0.0 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 20 | 26 | 0.0097 | 7.1 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 20 | 34 | 0.0104 | 3.1 | 0.0 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | 67.4 | 0.0 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 30 | 180 | 0.0148 | 49.0 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 30 | 112 | 0.0100 | 15.3 | 0.0 |
| Backhoe | 90 | 1 | 10 | 30 | 52 | 0.0069 | 7.0 | 0.0 |
| Loader | 175 | 1 | 10 | 30 | 106 | 0.0118 | 14.5 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 30 | 26 | 0.0097 | 10.6 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | 96.4 | 0.0 |

**Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Paving | | | | | | | | |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 20 | 34 | 0.0104 | 3.1 | 0.0 |
| Paving Machine | 45 | 1 | 10 | 20 | 28 | 0.0131 | 2.5 | 0.0 |
| New Loading Lane - Paving Total | | | | | | | 20.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 20 | 34 | 0.0104 | 3.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | 60.3 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 20 | 26 | 0.0097 | 7.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | 64.3 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 20 | 26 | 0.0097 | 7.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | 64.3 | 0.0 |

Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Rack Operations Building - Foundations Construction | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 10 | 180 | 0.0148 | 16.3 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 10 | 112 | 0.0100 | 5.1 | 0.0 |
| Backhoe | 90 | 1 | 10 | 10 | 52 | 0.0069 | 2.3 | 0.0 |
| Loader | 175 | 1 | 10 | 10 | 106 | 0.0118 | 4.8 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 10 | 26 | 0.0097 | 3.5 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 10 | 34 | 0.0104 | 1.6 | 0.0 |
| Rack Operations Building - Foundations Construction Total | | | | | | | 33.7 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 20 | 26 | 0.0097 | 7.1 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 20 | 34 | 0.0104 | 3.1 | 0.0 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | 67.4 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | |
| Backhoe | 90 | 1 | 10 | 15 | 52 | 0.0069 | 3.5 | 0.0 |
| Grader | 158 | 1 | 10 | 15 | 124 | 0.0140 | 8.4 | 0.0 |
| Loader | 175 | 1 | 10 | 15 | 106 | 0.0118 | 7.2 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | 19.2 | 0.0 |
| Gasoline Tank - Foundation Construction | | | | | | | | |
| Excavator | 222 | 1 | 10 | 65 | 159 | 0.0117 | 46.8 | 0.0 |
| Backhoe | 84 | 1 | 10 | 65 | 52 | 0.0069 | 15.3 | 0.0 |
| Skip Loader | 75 | 1 | 10 | 65 | 43 | 0.0043 | 12.6 | 0.0 |
| Concrete Pump | 400 | 1 | 10 | 65 | 345 | 0.0188 | 101.8 | 0.0 |
| Concrete Vibrator | 2 | 1 | 10 | 65 | 10 | 0.0011 | 3.0 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | 179.4 | 0.0 |

Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Foundation Level Survey | | | | | | | | |
| None | -- | -- | -- | -- | -- | -- | -- | -- |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | 0.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | |
| Crane | 160 | 1 | 10 | 160 | 80 | 0.0098 | 58.3 | 0.0 |
| 225 Amp. Generator | 370 | 1 | 10 | 160 | 337 | 0.0176 | 244.5 | 0.0 |
| Bobcat | 56 | 1 | 10 | 160 | 43 | 0.0043 | 31.0 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | 333.8 | 0.0 |
| Gasoline Tank - Piping Installation | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 35 | 180 | 0.0148 | 57.2 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| Backhoe | 90 | 1 | 10 | 35 | 52 | 0.0069 | 8.2 | 0.0 |
| Loader | 175 | 1 | 10 | 35 | 106 | 0.0118 | 16.9 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 35 | 26 | 0.0097 | 12.4 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 35 | 34 | 0.0104 | 5.5 | 0.0 |
| Gasoline Tank - Piping Installation Total | | | | | | | 117.9 | 0.0 |
| Gasoline Tank - Pump Foundation | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Concrete Pump | 40 | 1 | 10 | 20 | 34 | 0.0104 | 3.1 | 0.0 |
| Gasoline Tank - Pump Foundation Total | | | | | | | 60.3 | 0.0 |

Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Pump Installation | | | | | | | | |
| Boom Truck | 275 | 2 | 10 | 20 | 180 | 0.0148 | 32.7 | 0.0 |
| 18 Ton Crane | 185 | 1 | 10 | 20 | 112 | 0.0100 | 10.2 | 0.0 |
| Backhoe | 90 | 1 | 10 | 20 | 52 | 0.0069 | 4.7 | 0.0 |
| Loader | 175 | 1 | 10 | 20 | 106 | 0.0118 | 9.6 | 0.0 |
| Welding Machine | 45 | 3 | 10 | 20 | 26 | 0.0097 | 7.1 | 0.0 |
| Gasoline Tank - Pump Installation Total | | | | | | | 64.3 | 0.0 |
| Gasoline Tank - Berm Construction | | | | | | | | |
| Rubber Tired Loaders | 149 | 1 | 10 | 50 | 106 | 0.0118 | 24.1 | 0.0 |
| Crawler Tractors | 200 | 1 | 10 | 50 | 166 | 0.0167 | 37.7 | 0.0 |
| Gasoline Tank - Berm Construction Total | | | | | | | 61.8 | 0.0 |
| Gasoline Tank - Hydrotest | | | | | | | | |
| Crane | 160 | 1 | 10 | 35 | 80 | 0.0098 | 12.8 | 0.0 |
| 225 Amp. Generator | 370 | 1 | 10 | 35 | 337 | 0.0176 | 53.5 | 0.0 |
| Bobcat | 56 | 1 | 10 | 35 | 43 | 0.0043 | 6.8 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | | | 73.0 | 0.0 |
| Gasoline Tank - External Roof Construction | | | | | | | | |
| 50 Ton Crane | 250 | 1 | 10 | 35 | 112 | 0.0100 | 17.8 | 0.0 |
| 90 psig Compressor | 180 | 1 | 10 | 35 | 131 | 0.0096 | 20.8 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | | | 38.6 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | |
| 825 psig Compressor | 250 | 2 | 20 | 7 | 131 | 0.0096 | 16.7 | 0.0 |
| 200 kW generator | 275 | 1 | 20 | 7 | 337 | 0.0176 | 21.4 | 0.0 |
| 125 kW generator | 175 | 1 | 20 | 7 | 142 | 0.0132 | 9.0 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 20 | 7 | 213 | 0.0115 | 13.5 | 0.0 |
| Vacuum System | 210 | 1 | 20 | 7 | 254 | 0.0137 | 16.1 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | 76.7 | 0.0 |

**Table 67
Alternative 2 Construction Equipment Greenhouse Gas Emissions**

| Equipment | HP | No. | Hr/Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|-----|-----|--------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - External Blasting and Coating | | | | | | | | |
| 825 psig Compressor | 250 | 2 | 10 | 24 | 131 | 0.0096 | 28.6 | 0.0 |
| 200 kW generator | 275 | 1 | 10 | 24 | 337 | 0.0176 | 36.7 | 0.0 |
| 125 kW generator | 175 | 1 | 10 | 24 | 142 | 0.0132 | 15.5 | 0.0 |
| 80 ft. Manlift | 125 | 1 | 10 | 24 | 213 | 0.0115 | 23.2 | 0.0 |
| Vacuum System | 210 | 1 | 10 | 24 | 254 | 0.0137 | 27.7 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | 131.5 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for construction equipment in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/offroad/offroad.html>

^b Total Emissions [MT] = Emission factor [lb/hr] x Number x Daily operating time [hr/day] x Working days [days] x 453.6 g/lb / 1,000,000 [g/MT]

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|---|-------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | 0.2 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.6 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 30 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | 1.4 | 0.0 |

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | 0.3 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 35 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | 1.6 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | 0.1 | 0.0 |

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | 0.2 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.6 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 30 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | 1.4 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | 0.3 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 35 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | 1.6 | 0.0 |

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|---|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | 0.2 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.6 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 30 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | 1.4 | 0.0 |

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | 0.3 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 35 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | 1.6 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 1 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 1 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | 0.1 | 0.0 |

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Service Truck | Light Duty | 3 | 1 | 9 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 9 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | 0.2 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.6 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 30 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | 1.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 2 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | 0.3 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 35 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | 1.6 | 0.0 |

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|---|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Skid Piping Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 10 | 2.77E+00 | 1.07E-04 | 0.0 | 0.0 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | 0.5 | 0.0 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.4 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 20 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | 0.9 | 0.0 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 30 | 4.22E+00 | 1.17E-04 | 1.1 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 30 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 30 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 30 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | 1.9 | 0.0 |

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|---|-------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Paving | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 20 | 4.22E+00 | 1.17E-04 | 1.3 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| New Loading Lane - Paving Total | | | | | | | 1.8 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.4 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | 0.8 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.4 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 20 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | 0.9 | 0.0 |

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 20 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | 0.7 | 0.0 |
| Rack Operations Building - Foundations Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.4 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Welding Truck | Heavy Duty | 3 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Rack Operations Building - Foundations Construction Total | | | | | | | 0.7 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.8 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 20 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | 1.3 | 0.0 |

**Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|---|------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 15 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | 15 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 15 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 15 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 15 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | 1.0 | 0.0 |
| Gasoline Tank - Foundation Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 65 | 1.10E+00 | 7.17E-05 | 0.8 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 65 | 4.22E+00 | 1.17E-04 | 4.4 | 0.0 |
| Service Truck | Light Duty | 1 | 1 | 65 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 1 | 1 | 65 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 65 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | 5.4 | 0.0 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 10 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 10 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | 0.3 | 0.0 |
| Gasoline Tank - Tank Shell Erection | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 160 | 1.10E+00 | 7.17E-05 | 2.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 1 | 160 | 4.22E+00 | 1.17E-04 | 10.7 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 160 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 160 | 4.22E+00 | 1.17E-04 | 0.6 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | 13.5 | 0.0 |

**Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions**

| Vehicle Type | Category | No. | Mi/Veh- Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|-------------|-----|----------------|-----------------|---|-----------------|---|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Piping Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.7 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 35 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Gasoline Tank - Piping Installation Total | | | | | | | 1.6 | 0.0 |
| Gasoline Tank - Pump Foundation | | | | | | | | |
| Worker Commute | Light Duty | 15 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.4 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.0 | 0.0 |
| Gasoline Tank - Pump Foundation Total | | | | | | | 0.8 | 0.0 |
| Gasoline Tank - Pump Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Service Truck | Light Duty | 5 | 1 | 20 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Boom Truck | Heavy Duty | 2 | 1 | 20 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Welding Truck | Medium Duty | 3 | 1 | 20 | 2.77E+00 | 1.07E-04 | 0.1 | 0.0 |
| Gasoline Tank - Pump Installation Total | | | | | | | 0.7 | 0.0 |

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Berm Construction | | | | | | | | |
| Worker Commute | Light Duty | 5 | 1 | 50 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 72 | 1 | 50 | 4.22E+00 | 1.17E-04 | 6.9 | 0.0 |
| Water Truck | Heavy Duty | 1 | 1 | 50 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Gasoline Tank - Berm Construction Total | | | | | | | 7.1 | 0.0 |
| Gasoline Tank - Hydrotest | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.3 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Gasoline Tank - Hydrotest Total | | | | | | | 0.8 | 0.0 |
| Gasoline Tank - External Roof Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 1 | 35 | 4.22E+00 | 1.17E-04 | 1.7 | 0.0 |
| Service Truck | Light Duty | 2 | 1 | 35 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Flatbed Truck | Heavy Duty | 2 | 1 | 35 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | | | 2.3 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 7 | 1.10E+00 | 7.17E-05 | 0.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 7 | 4.22E+00 | 1.17E-04 | 0.1 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | 7 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | 0.2 | 0.0 |

Table 68
Alternative 2 On-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/mi) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - External Blasting and Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 1 | 24 | 1.10E+00 | 7.17E-05 | 0.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 1 | 24 | 4.22E+00 | 1.17E-04 | 0.5 | 0.0 |
| 3/4 Ton Pickup Truck | Light Duty | 1 | 1 | 24 | 1.10E+00 | 7.17E-05 | 0.0 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | 0.8 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for on-road motor vehicles in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html>

^b Total Emissions [MT] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/day] x Working days [days] x 453.6 g/lb / 1,000,000 [g/MT]

Table 69
Alternative 2 Off-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 1 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 1 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.4 | 0.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 10 | 1.10E+00 | 7.17E-05 | 1.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 10 | 4.22E+00 | 1.17E-04 | 1.9 | 0.0 |
| Convert First Tank to Ethanol - Cleaning Total | | | | | | | 3.7 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 9 | 1.10E+00 | 7.17E-05 | 2.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 9 | 4.22E+00 | 1.17E-04 | 4.3 | 0.0 |
| Convert First Tank to Ethanol - Lining Removal Total | | | | | | | 6.7 | 0.0 |
| Convert First Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 30 | 1.10E+00 | 7.17E-05 | 13.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 30 | 4.22E+00 | 1.17E-04 | 28.7 | 0.0 |
| Convert First Tank to Ethanol - Repairs Total | | | | | | | 41.8 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Convert First Tank to Ethanol - Internal Coating Total | | | | | | | 13.9 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 35 | 4.22E+00 | 1.17E-04 | 33.5 | 0.0 |
| Convert First Tank to Ethanol - Manifold Modifications Total | | | | | | | 48.8 | 0.0 |

Table 69
Alternative 2 Off-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 1 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 1 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.4 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 10 | 1.10E+00 | 7.17E-05 | 1.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 10 | 4.22E+00 | 1.17E-04 | 1.9 | 0.0 |
| Convert Second Tank to Ethanol - Cleaning Total | | | | | | | 3.7 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 9 | 1.10E+00 | 7.17E-05 | 2.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 9 | 4.22E+00 | 1.17E-04 | 4.3 | 0.0 |
| Convert Second Tank to Ethanol - Lining Removal Total | | | | | | | 6.7 | 0.0 |
| Convert Second Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 30 | 1.10E+00 | 7.17E-05 | 13.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 30 | 4.22E+00 | 1.17E-04 | 28.7 | 0.0 |
| Convert Second Tank to Ethanol - Repairs Total | | | | | | | 41.8 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Convert Second Tank to Ethanol - Internal Coating Total | | | | | | | 13.9 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 35 | 4.22E+00 | 1.17E-04 | 33.5 | 0.0 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | | | | | | | 48.8 | 0.0 |

Table 69
Alternative 2 Off-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 1 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 1 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.4 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 10 | 1.10E+00 | 7.17E-05 | 1.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 10 | 4.22E+00 | 1.17E-04 | 1.9 | 0.0 |
| Convert Third Tank to Ethanol - Cleaning Total | | | | | | | 3.7 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 9 | 1.10E+00 | 7.17E-05 | 2.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 9 | 4.22E+00 | 1.17E-04 | 4.3 | 0.0 |
| Convert Third Tank to Ethanol - Lining Removal Total | | | | | | | 6.7 | 0.0 |
| Convert Third Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 30 | 1.10E+00 | 7.17E-05 | 13.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 30 | 4.22E+00 | 1.17E-04 | 28.7 | 0.0 |
| Convert Third Tank to Ethanol - Repairs Total | | | | | | | 41.8 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Convert Third Tank to Ethanol - Internal Coating Total | | | | | | | 13.9 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 35 | 4.22E+00 | 1.17E-04 | 33.5 | 0.0 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | | | | | | | 48.8 | 0.0 |

Table 69
Alternative 2 Off-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 1 | 1.10E+00 | 7.17E-05 | 0.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 1 | 4.22E+00 | 1.17E-04 | 0.2 | 0.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | | | | | | | 0.4 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | | | |
| Worker Commute | Light Duty | 10 | 35 | 10 | 1.10E+00 | 7.17E-05 | 1.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 2 | 50 | 10 | 4.22E+00 | 1.17E-04 | 1.9 | 0.0 |
| Convert Fourth Tank to Ethanol - Cleaning Total | | | | | | | 3.7 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 9 | 1.10E+00 | 7.17E-05 | 2.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 9 | 4.22E+00 | 1.17E-04 | 4.3 | 0.0 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | | | | | | | 6.7 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 30 | 1.10E+00 | 7.17E-05 | 13.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 30 | 4.22E+00 | 1.17E-04 | 28.7 | 0.0 |
| Convert Fourth Tank to Ethanol - Repairs Total | | | | | | | 41.8 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | | | | | | | 13.9 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 35 | 4.22E+00 | 1.17E-04 | 33.5 | 0.0 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | | | | | | | 48.8 | 0.0 |

Table 69
Alternative 2 Off-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Skid Piping Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| New Loading Lane - Skid Piping Installation Total | | | | | | | 13.9 | 0.0 |
| New Loading Lane - Canopy Structure Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 20 | 4.22E+00 | 1.17E-04 | 19.1 | 0.0 |
| New Loading Lane - Canopy Structure Installation Total | | | | | | | 27.9 | 0.0 |
| New Loading Lane - Rack Piping Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 30 | 1.10E+00 | 7.17E-05 | 13.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 30 | 4.22E+00 | 1.17E-04 | 57.4 | 0.0 |
| New Loading Lane - Rack Piping Modifications Total | | | | | | | 70.5 | 0.0 |
| New Loading Lane - Paving | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 20 | 4.22E+00 | 1.17E-04 | 66.9 | 0.0 |
| New Loading Lane - Paving Total | | | | | | | 75.7 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 20 | 1.10E+00 | 7.17E-05 | 5.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 20 | 4.22E+00 | 1.17E-04 | 19.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | | | | | | | 24.4 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 20 | 4.22E+00 | 1.17E-04 | 19.1 | 0.0 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | | | | | | | 27.9 | 0.0 |

Table 69
Alternative 2 Off-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|---|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 20 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | | | | | | | 18.3 | 0.0 |
| Rack Operations Building - Foundations Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 10 | 1.10E+00 | 7.17E-05 | 4.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 10 | 4.22E+00 | 1.17E-04 | 19.1 | 0.0 |
| Rack Operations Building - Foundations Construction Total | | | | | | | 23.5 | 0.0 |
| Rack Operations Building - Demolition and Building Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 20 | 50 | 20 | 4.22E+00 | 1.17E-04 | 38.2 | 0.0 |
| Rack Operations Building - Demolition and Building Construction Total | | | | | | | 47.0 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 15 | 1.10E+00 | 7.17E-05 | 6.6 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 15 | 4.22E+00 | 1.17E-04 | 35.9 | 0.0 |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) Total | | | | | | | 42.4 | 0.0 |
| Gasoline Tank - Foundation Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 65 | 1.10E+00 | 7.17E-05 | 28.4 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 65 | 4.22E+00 | 1.17E-04 | 217.5 | 0.0 |
| Gasoline Tank - Foundation Construction Total | | | | | | | 245.9 | 0.0 |
| Gasoline Tank - Foundation Level Survey | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 10 | 1.10E+00 | 7.17E-05 | 2.6 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 10 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Gasoline Tank - Foundation Level Survey Total | | | | | | | 12.2 | 0.0 |

Table 69
Alternative 2 Off-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - Tank Shell Erection | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 160 | 1.10E+00 | 7.17E-05 | 70.0 | 0.0 |
| Delivery/Removal | Heavy Duty | 35 | 50 | 160 | 4.22E+00 | 1.17E-04 | 535.5 | 0.0 |
| Gasoline Tank - Tank Shell Erection Total | | | | | | | 605.4 | 0.0 |
| Gasoline Tank - Piping Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 35 | 4.22E+00 | 1.17E-04 | 33.5 | 0.0 |
| Gasoline Tank - Piping Installation Total | | | | | | | 48.8 | 0.0 |
| Gasoline Tank - Pump Foundation | | | | | | | | |
| Worker Commute | Light Duty | 15 | 35 | 20 | 1.10E+00 | 7.17E-05 | 5.2 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 20 | 4.22E+00 | 1.17E-04 | 19.1 | 0.0 |
| Gasoline Tank - Pump Foundation Total | | | | | | | 24.4 | 0.0 |
| Gasoline Tank - Pump Installation | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 20 | 1.10E+00 | 7.17E-05 | 8.7 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 20 | 4.22E+00 | 1.17E-04 | 9.6 | 0.0 |
| Gasoline Tank - Pump Installation Total | | | | | | | 18.3 | 0.0 |
| Gasoline Tank - Berm Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 50 | 1.10E+00 | 7.17E-05 | 21.9 | 0.0 |
| Delivery/Removal | Heavy Duty | 72 | 50 | 50 | 4.22E+00 | 1.17E-04 | 344.2 | 0.0 |
| Gasoline Tank - Berm Construction Total | | | | | | | 366.1 | 0.0 |
| Gasoline Tank - Hydrottest | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 5 | 50 | 35 | 4.22E+00 | 1.17E-04 | 16.7 | 0.0 |
| Gasoline Tank - Hydrottest Total | | | | | | | 32.0 | 0.0 |

Table 69
Alternative 2 Off-Site Construction Motor Vehicle Greenhouse Gas Emissions

| Vehicle Type | Category | No. | Mi/Veh-Day | Working Days | Emission Factors (lb/hr) ^a | | Total Emissions (MT) ^b | |
|--|------------|-----|------------|--------------|---------------------------------------|-----------------|-----------------------------------|-----------------|
| | | | | | CO ₂ | CH ₄ | CO ₂ | CH ₄ |
| Gasoline Tank - External Roof Construction | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 35 | 1.10E+00 | 7.17E-05 | 15.3 | 0.0 |
| Delivery/Removal | Heavy Duty | 25 | 50 | 35 | 4.22E+00 | 1.17E-04 | 83.7 | 0.0 |
| Gasoline Tank - External Roof Construction Total | | | | | | | 99.0 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 7 | 1.10E+00 | 7.17E-05 | 3.1 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 7 | 4.22E+00 | 1.17E-04 | 6.7 | 0.0 |
| Gasoline Tank - Internal Blasting and Coating Total | | | | | | | 9.8 | 0.0 |
| Gasoline Tank - External Blasting and Coating | | | | | | | | |
| Worker Commute | Light Duty | 25 | 35 | 24 | 1.10E+00 | 7.17E-05 | 10.5 | 0.0 |
| Delivery/Removal | Heavy Duty | 10 | 50 | 24 | 4.22E+00 | 1.17E-04 | 22.9 | 0.0 |
| Gasoline Tank - External Blasting and Coating Total | | | | | | | 33.4 | 0.0 |

Note: Totals may not match sum of individual values because of rounding.

^a Emission factors for calendar year 2011 for on-road motor vehicles in the SCAQMD jurisdiction, downloaded from <http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html>

^b Total Emissions [MT] = Emission factor [lb/mi] x Number x Daily miles traveled [mi/day] x Working days [days] x 453.6 g/lb / 1,000,000 [g/MT]

Table 70
Alternative 2 Maximum Daily Construction Workers and Off-Site Construction Trucks by Construction Month

| Component | Construction Month: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
|---|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | Construction Weeks: | 1-4 | 5-8 | 9-13 | 14-17 | 18-21 | 22-26 | 27-30 | 31-34 | 35-39 | 40-43 | 44-47 | 48-52 | 53-56 | 57-60 | 61-65 | 66-69 | 70-72 | |
| Construction Workers | | | | | | | | | | | | | | | | | | | |
| Storage Tank Conversions | | 80 | 100 | 50 | 80 | 100 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Loading Lane | | 65 | 25 | 50 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Building Expansion | | 25 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank | | 25 | 25 | 25 | 25 | 50 | 115 | 115 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Total Construction Workers | | 195 | 175 | 125 | 130 | 150 | 165 | 115 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Off-Site Construction Trucks | | | | | | | | | | | | | | | | | | | |
| Storage Tank Conversions | | 30 | 40 | 20 | 30 | 40 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Loading Lane | | 30 | 20 | 35 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Building Expansion | | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank | | 35 | 35 | 35 | 35 | 107 | 132 | 132 | 35 | 35 | 35 | 35 | 35 | 5 | 25 | 25 | 10 | 10 | |
| Total Off-Site Construction Trucks | | 115 | 115 | 90 | 100 | 147 | 152 | 132 | 35 | 35 | 35 | 35 | 35 | 5 | 25 | 25 | 10 | 10 | |
| Ethanol Tanker Trucks | | | | | | | | | | | | | | | | | | | |
| Existing Loading Rack | | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 |
| New Loading Rack | | 0 | 0 | 0 | 0 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Total | | 52 | 52 | 52 | 52 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 |

Table 71
Alternative 2 Increase in Hourly Passenger Car Equivalent Trips by Construction Month

| Vehicle Type | Construction Month | | | | | | | | | | | | | | | | |
|-----------------------|--------------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Worker Commute | 195 | 175 | 125 | 130 | 150 | 165 | 115 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Construction Trucks | 48 | 48 | 38 | 42 | 60 | 62 | 54 | 16 | 16 | 16 | 16 | 16 | 4 | 12 | 12 | 6 | 6 |
| Ethanol Tanker Trucks | 8 | 8 | 8 | 8 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Total | 251 | 231 | 171 | 180 | 234 | 251 | 193 | 65 | 65 | 65 | 65 | 65 | 53 | 61 | 61 | 55 | 55 |

**Table 72
Alternative 2 Daily Construction Workers by Construction Week**

| Construction Phase | Daily Workers (number/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|-------------------------------|-------------------|-----------|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 10 | 10 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 10 | | 10 | 10 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 15 | | | | 15 | 15 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 25 | | | | | | 25 | 25 | 25 | 25 | 25 | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | 25 | 25 | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 10 | | 10 | 10 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 15 | | | | 15 | 15 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 25 | | | | | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | 25 | 25 | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | 10 | | | |
| Convert Third Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | 10 | 10 | |
| Convert Third Tank to Ethanol - Lining Removal | 15 | | | | | | | | | | | | | | | | | 15 |
| Convert Third Tank to Ethanol - Repairs | 25 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | | | | | 25 | 25 | 25 | 25 | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | 10 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | 10 | 10 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 15 | | | | | | | | | | | | | | | | | 15 |
| Convert Fourth Tank to Ethanol - Repairs | 25 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | | | | | 25 | 25 | 25 | 25 | |
| New Loading Lane - Skid Piping Installation | 25 | 25 | 25 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 25 | | | 25 | 25 | 25 | 25 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 25 | | | | | | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | |
| New Loading Lane - Paving | 25 | | | | | | | | | | | | | 25 | 25 | 25 | 25 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 15 | 15 | 15 | 15 | 15 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 25 | 25 | 25 | 25 | 25 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 25 | | | | | | | | | 25 | 25 | 25 | 25 | | | | | |
| Rack Operations Building - Foundations Construction | 25 | | | 25 | 25 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 25 | | | | | 25 | 25 | 25 | 25 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 25 | 25 | 25 | 25 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 25 | | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | |
| Gasoline Tank - Foundation Level Survey | 15 | | | | | | | | | | | | | | | | | 15 |
| Gasoline Tank - Tank Shell Erection | 25 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 25 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 15 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 25 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 25 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrotect | 25 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 25 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 25 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 25 | | | | | | | | | | | | | | | | | |
| Storage Tank Conversions Total | | 35 | 70 | 70 | 80 | 80 | 100 | 100 | 50 | 50 | 50 | 50 | 50 | 50 | 70 | 70 | 70 | 80 |
| New Loading Lane Total | | 65 | 65 | 65 | 65 | 25 | 25 | 25 | 25 | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 25 | 0 |
| Operations Building Expansion Total | | 0 | 0 | 25 | 25 | 25 | 25 | 25 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank Total | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 15 |

Table 72
Alternative 2 Daily Construction Workers by Construction Week

| Construction Phase | Daily Workers (number/day) | Construction Week | | | | | | | | | | | | | | | |
|---|-------------------------------|-------------------|------------|------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-30 | 31-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 15 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 25 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 15 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 25 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 15 | 15 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 25 | | | | | | | | 25 | 25 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 25 | 25 | 25 | 25 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 15 | 15 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 25 | | | | | | | | 25 | 25 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 25 | 25 | 25 | 25 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 15 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 25 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 25 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 25 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 25 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 25 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 15 | 15 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | | | |
| Gasoline Tank - Piping Installation | 25 | | | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | | | |
| Gasoline Tank - Pump Foundation | 15 | | | | | | | | 15 | 15 | 15 | 15 | 15 | | | | |
| Gasoline Tank - Pump Installation | 25 | | | | | | | | 25 | 25 | 25 | 25 | 25 | | | | |
| Gasoline Tank - Berm Construction | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | | | |
| Gasoline Tank - Hydrottest | 25 | | | | | | | | | | | | | 25 | | | |
| Gasoline Tank - External Roof Construction | 25 | | | | | | | | | | | | | | 25 | | |
| Gasoline Tank - Internal Blasting and Coating | 25 | | | | | | | | | | | | | | | 25 | |
| Gasoline Tank - External Blasting and Coating | 25 | | | | | | | | | | | | | | | | 25 |
| Storage Tank Conversions Total | | 80 | 100 | 100 | 50 | 50 | 50 | 50 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Loading Lane Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Building Expansion Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank Total | | 15 | 50 | 50 | 50 | 75 | 75 | 115 | 115 | 115 | 115 | 115 | 115 | 25 | 25 | 25 | 25 |

**Table 73
Alternative 2 Daily Off-Site Construction Trucks by Construction Week**

| Construction Phase | Daily Trucks (number/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|------------------------------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 2 | 2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2 | | 2 | 2 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5 | | | | 5 | 5 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 10 | | | | | | 10 | 10 | 10 | 10 | 10 | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | 10 | 10 | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2 | | 2 | 2 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5 | | | | 5 | 5 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 10 | | | | | | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | 10 | 10 | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | 2 | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | 2 | 2 | | |
| Convert Third Tank to Ethanol - Lining Removal | 5 | | | | | | | | | | | | | | | | | 5 |
| Convert Third Tank to Ethanol - Repairs | 10 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | | | | | 10 | 10 | 10 | 10 | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | 2 | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | 2 | 2 | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 5 | | | | | | | | | | | | | | | | | 5 |
| Convert Fourth Tank to Ethanol - Repairs | 10 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | | | | | 10 | 10 | 10 | 10 | |
| New Loading Lane - Skid Piping Installation | 10 | 10 | 10 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 10 | | | 10 | 10 | 10 | 10 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 20 | | | | | | | 20 | 20 | 20 | 20 | 20 | 20 | | | | | |
| New Loading Lane - Paving | 35 | | | | | | | | | | | | | 35 | 35 | 35 | 35 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 5 | | | | | | | | | 5 | 5 | 5 | 5 | | | | | |
| Rack Operations Building - Foundations Construction | 20 | | | 20 | 20 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 20 | | | | | 20 | 20 | 20 | 20 | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 25 | 25 | 25 | 25 | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 35 | | | | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | |
| Gasoline Tank - Foundation Level Survey | 10 | | | | | | | | | | | | | | | | | 10 |
| Gasoline Tank - Tank Shell Erection | 35 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Piping Installation | 10 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Foundation | 10 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Pump Installation | 5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Berm Construction | 72 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Hydrottest | 5 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Roof Construction | 25 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - Internal Blasting and Coating | 10 | | | | | | | | | | | | | | | | | |
| Gasoline Tank - External Blasting and Coating | 10 | | | | | | | | | | | | | | | | | |
| Storage Tank Conversions Total | | 12 | 24 | 24 | 30 | 30 | 40 | 40 | 20 | 20 | 20 | 20 | 20 | 20 | 24 | 24 | 24 | 30 |
| New Loading Lane Total | | 30 | 30 | 30 | 30 | 10 | 10 | 20 | 20 | 25 | 25 | 25 | 25 | 35 | 35 | 35 | 35 | 0 |
| Operations Building Expansion Total | | 0 | 0 | 20 | 20 | 20 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank Total | | 25 | 25 | 25 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 10 |

Table 73
Alternative 2 Daily Off-Site Construction Trucks by Construction Week

| Construction Phase | Daily Trucks (number/day) | Construction Week | | | | | | | | | | | | | | | |
|---|------------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|----------|-----------|-----------|-----------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29-30 | 31-57 | 58-64 | 65-66 | 67-72 |
| Convert First Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 10 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 10 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 5 | 5 | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 10 | | | | | | | | 10 | 10 | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 10 | 10 | 10 | 10 | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 5 | 5 | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 10 | | | | | | | | 10 | 10 | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 10 | 10 | 10 | 10 | | | | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 10 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 10 | | | | | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 20 | | | | | | | | | | | | | | | | |
| New Loading Lane - Paving | 35 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 10 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 10 | | | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 5 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 20 | | | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 20 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Grading & Site Prep. (Incl. Rack Ops. Bldg.) | 25 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Construction | 35 | | | | | | | | | | | | | | | | |
| Gasoline Tank - Foundation Level Survey | 10 | 10 | | | | | | | | | | | | | | | |
| Gasoline Tank - Tank Shell Erection | 35 | | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | | | | |
| Gasoline Tank - Piping Installation | 10 | | | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | | |
| Gasoline Tank - Pump Foundation | 10 | | | | | | | 10 | 10 | 10 | 10 | 10 | | | | | |
| Gasoline Tank - Pump Installation | 5 | | | | | | | 5 | 5 | 5 | 5 | 5 | | | | | |
| Gasoline Tank - Berm Construction | 72 | | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | | | | | |
| Gasoline Tank - Hydrottest | 5 | | | | | | | | | | | | | 5 | | | |
| Gasoline Tank - External Roof Construction | 25 | | | | | | | | | | | | | | 25 | | |
| Gasoline Tank - Internal Blasting and Coating | 10 | | | | | | | | | | | | | | | 10 | |
| Gasoline Tank - External Blasting and Coating | 10 | | | | | | | | | | | | | | | | 10 |
| Storage Tank Conversions Total | | 30 | 40 | 40 | 20 | 20 | 20 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Loading Lane Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Building Expansion Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Gasoline Storage Tank Total | | 10 | 107 | 107 | 107 | 117 | 117 | 132 | 132 | 132 | 132 | 132 | 35 | 5 | 25 | 10 | 10 |

**Table 74
Alternative 3 Construction Schedule**

| Component | Phase | Construction Week | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|-------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Convert First Tank to Ethanol | Draining and Degassing | ■ | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | Internal Coating | | | | | | | | | | | | ■ | ■ | | | | | | | | | | | | | |
| | Manifold Modifications | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol | Draining and Degassing | ■ | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | Internal Coating | | | | | | | | | | | | ■ | ■ | | | | | | | | | | | | | |
| | Manifold Modifications | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol | Draining and Degassing | | | | | | | | | | | | | | | ■ | | | | | | | | | | | |
| | Cleaning | | | | | | | | | | | | | | | | ■ | ■ | | | | | | | | | |
| | Lining Removal | | | | | | | | | | | | | | | | | ■ | ■ | ■ | | | | | | | |
| | Repairs | | | | | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Internal Coating | | | | | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Manifold Modifications | | | | | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Convert Fourth Tank to Ethanol | Draining and Degassing | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cleaning | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Lining Removal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Repairs | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Internal Coating | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Manifold Modifications | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Loading Lane | Skid Piping Installation | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | |
| | Canopy Structure Installation | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | |
| | Rack Piping Modifications | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | |
| | Paving | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | |
| | Ethanol Pumps Foundations Construction | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | |
| | Ethanol Pumps Manifold Piping Modifications | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | |
| | Ethanol Pumps Pump Installation | | | | | | | | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | |
| Rack Operations Building | Foundations Construction | | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | |
| | Demolition and Building Construction | | | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | |

**Table 75
Alternative 3 Peak Daily Construction Emissions**

| Source | Peak Daily Emissions (lb/day) | | | | | |
|------------------------------------|-------------------------------|--------------|--------------|------------|-------------|-------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Construction Equipment Exhaust | 68.1 | 231.4 | 503.1 | 0.6 | 23.7 | 21.8 |
| On-Site Motor Vehicle Exhaust | 0.6 | 3.7 | 4.1 | 0.0 | 0.2 | 0.2 |
| On-Site Motor Vehicle Fugitive PM | | | | | 48.3 | 5.1 |
| Earthwork Fugitive PM | | | | | 3.1 | 0.7 |
| Painting VOC | 28.9 | | | | | |
| Asphaltic Paving VOC | 0.0 | | | | | |
| Degassing Emissions ^a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Total | 97.5 | 235.1 | 507.2 | 0.6 | 75.3 | 27.6 |
| Off-Site Motor Vehicle Exhaust | 17.3 | 108.9 | 133.6 | 0.3 | 6.9 | 5.8 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 5.5 | 0.0 |
| Off-Site Total | 17.3 | 108.9 | 133.6 | 0.3 | 12.4 | 5.8 |
| Total | 114.9 | 343.9 | 640.8 | 0.9 | 87.7 | 33.5 |

Note: Totals may not match sum of individual values because of rounding.

^a Only one storage tank will be degassed on a single day.

Table 76
Alternative 3 Maximum Daily Construction Emissions during Overlapping Interim Operational Phases

| Interim Operational Phase | Maximum Daily Emissions (lb/day) | | | | | |
|---------------------------|----------------------------------|-------|-------|-----|------|-------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Phase I (weeks 1-16) | 114.9 | 343.9 | 640.8 | 0.9 | 87.7 | 33.5 |
| Phase II (weeks 17-26) | 66.0 | 180.5 | 323.9 | 0.4 | 47.6 | 18.0 |
| Significance Threshold | 55 | 550 | 55 | 150 | 150 | 55 |
| Significant? | Yes | No | Yes | No | No | No |

**Table 77
Alternative 3 Daily VOC Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|--------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 33.6 | 33.6 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.9 | | 2.9 | 2.9 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 7.3 | | | | 7.3 | 7.3 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 14.9 | | | | | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | 6.9 | 6.9 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.9 | | 2.9 | 2.9 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 7.3 | | | | 7.3 | 7.3 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 14.9 | | | | | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | 6.9 | 6.9 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 18.1 | | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | 33.6 | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | 2.9 | 2.9 | |
| Convert Third Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | | | | | | | | 7.3 |
| Convert Third Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | | | | | | 18.1 | 18.1 | 18.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | | | | | | 2.9 | 2.9 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | | | | | | | | 7.3 |
| Convert Fourth Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | | | | | | 18.1 | 18.1 | 18.1 |
| New Loading Lane - Skid Piping Installation | 16.1 | 16.1 | 16.1 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 20.9 | | | 20.9 | 20.9 | 20.9 | 20.9 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 19.3 | | | | | | | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | | | | | |
| New Loading Lane - Paving | 10.5 | | | | | | | | | | | | | 10.5 | 10.5 | 10.5 | 10.5 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 19.7 | 19.7 | 19.7 | 19.7 | 19.7 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 14.3 | | | | | | | | | 14.3 | 14.3 | 14.3 | 14.3 | | | | | |
| Rack Operations Building - Foundations Construction | 14.1 | | | 14.1 | 14.1 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 22.2 | | | | | 22.2 | 22.2 | 22.2 | 22.2 | | | | | | | | | |
| Total | | 96.8 | 87.1 | 106.1 | 114.9 | 93.9 | 109.1 | 107.5 | 71.3 | 63.4 | 63.4 | 47.3 | 24.2 | 80.3 | 52.5 | 52.5 | 50.8 | |

Note: Totals may not match sum of individual values because of rounding.

Table 77
Alternative 3 Daily VOC Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | |
| Convert First Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 7.3 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 14.9 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 18.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 7.3 | 7.3 | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 14.9 | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | |
| Convert Third Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | 6.9 | 6.9 | |
| Convert Third Tank to Ethanol - Manifold Modifications | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 33.6 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2.9 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 7.3 | 7.3 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 14.9 | | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | 14.9 | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 6.9 | | | | | | | | 6.9 | 6.9 | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 18.1 | 18.1 | 18.1 | 18.1 | | | | | | | |
| New Loading Lane - Skid Piping Installation | 16.1 | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 20.9 | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 19.3 | | | | | | | | | | |
| New Loading Lane - Paving | 10.5 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 9.3 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 19.7 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 14.3 | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 14.1 | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 22.2 | | | | | | | | | | |
| Total | | 50.8 | 66.0 | 66.0 | 29.8 | 29.8 | 29.8 | 29.8 | 13.8 | 13.8 | |

Note: Totals may not match sum of individual values because of rounding.

**Table 78
Alternative 3 Daily CO Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 11.2 | 11.2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 17.8 | | 17.8 | 17.8 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 34.9 | | | | 34.9 | 34.9 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 45.1 | | | | | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | 30.6 | 30.6 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 17.8 | | 17.8 | 17.8 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 34.9 | | | | 34.9 | 34.9 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 45.1 | | | | | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | 30.6 | 30.6 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 45.1 | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | 11.2 | | |
| Convert Third Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | 17.8 | 17.8 | |
| Convert Third Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | | | | | | | | 34.9 |
| Convert Third Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | | | | | | 45.1 | 45.1 | 45.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | | | | | | 17.8 | 17.8 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | | | | | | | | 34.9 |
| Convert Fourth Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | | | | | | 45.1 | 45.1 | 45.1 |
| New Loading Lane - Skid Piping Installation | 48.3 | 48.3 | 48.3 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 48.3 | | | 48.3 | 48.3 | 48.3 | 48.3 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 49.9 | | | | | | | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | | | | | |
| New Loading Lane - Paving | 41.9 | | | | | | | | | | | | | 41.9 | 41.9 | 41.9 | 41.9 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 42.5 | | | | | | | | | 42.5 | 42.5 | 42.5 | 42.5 | | | | | |
| Rack Operations Building - Foundations Construction | 53.6 | | | 53.6 | 53.6 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 53.6 | | | | | 53.6 | 53.6 | 53.6 | 53.6 | | | | | | | | | |
| Total | | 186.7 | 256.4 | 309.9 | 343.9 | 261.8 | 282.4 | 284.0 | 193.7 | 182.7 | 182.7 | 153.6 | 103.1 | 143.3 | 167.9 | 167.9 | 159.9 | |

Note: Totals may not match sum of individual values because of rounding.

Table 78
Alternative 3 Daily CO Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | |
| Convert First Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 34.9 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 45.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 45.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 34.9 | 34.9 | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 45.1 | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | |
| Convert Third Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | 30.6 | 30.6 | |
| Convert Third Tank to Ethanol - Manifold Modifications | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 11.2 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 17.8 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 34.9 | 34.9 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 45.1 | | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 30.6 | | | | | | | | 30.6 | 30.6 | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 45.1 | 45.1 | 45.1 | 45.1 | | | | | | | |
| New Loading Lane - Skid Piping Installation | 48.3 | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 48.3 | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 49.9 | | | | | | | | | | |
| New Loading Lane - Paving | 41.9 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 37.0 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 45.1 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 42.5 | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 53.6 | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 53.6 | | | | | | | | | | |
| Total | | 159.9 | 180.5 | 180.5 | 90.2 | 90.2 | 90.2 | 90.2 | 61.1 | 61.1 | |

Note: Totals may not match sum of individual values because of rounding.

Table 79
Alternative 3 Daily NOx Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 16.8 | 16.8 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 20.4 | | 20.4 | 20.4 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 68.6 | | | | 68.6 | 68.6 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 81.0 | | | | | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | 70.5 | 70.5 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 20.4 | | 20.4 | 20.4 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 68.6 | | | | 68.6 | 68.6 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 81.0 | | | | | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | 70.5 | 70.5 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 81.0 | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | 16.8 | | | |
| Convert Third Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | 20.4 | 20.4 | |
| Convert Third Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | | | | | | | | 68.6 |
| Convert Third Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | | | | | | 81.0 | 81.0 | 81.0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | | | | | | 20.4 | 20.4 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | | | | | | | | 68.6 |
| Convert Fourth Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | | | | | | 81.0 | 81.0 | 81.0 |
| New Loading Lane - Skid Piping Installation | 84.3 | 84.3 | 84.3 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 84.3 | | | 84.3 | 84.3 | 84.3 | 84.3 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 96.1 | | | | | | | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | | | | | |
| New Loading Lane - Paving | 77.4 | | | | | | | | | | | | | 77.4 | 77.4 | 77.4 | 77.4 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 73.1 | | | | | | | | | 73.1 | 73.1 | 73.1 | 73.1 | | | | | |
| Rack Operations Building - Foundations Construction | 100.2 | | | 100.2 | 100.2 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 100.1 | | | | | 100.1 | 100.1 | 100.1 | 100.1 | | | | | | | | | |
| Total | | 339.2 | 444.1 | 544.3 | 640.8 | 483.6 | 508.3 | 520.1 | 358.1 | 331.1 | 331.1 | 331.1 | 310.3 | 218.5 | 256.2 | 280.1 | 280.1 | 299.2 |

Note: Totals may not match sum of individual values because of rounding.

**Table 79
Alternative 3 Daily NOx Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | |
|---|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | |
| Convert First Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 68.6 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 81.0 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 81.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 68.6 | 68.6 | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 81.0 | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | |
| Convert Third Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | 70.5 | 70.5 | |
| Convert Third Tank to Ethanol - Manifold Modifications | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 16.8 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 20.4 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 68.6 | 68.6 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 81.0 | | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 70.5 | | | | | | | | 70.5 | 70.5 | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 81.0 | 81.0 | 81.0 | 81.0 | | | | | | | |
| New Loading Lane - Skid Piping Installation | 84.3 | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 84.3 | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 96.1 | | | | | | | | | | |
| New Loading Lane - Paving | 77.4 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 76.1 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 81.0 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 73.1 | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 100.2 | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 100.1 | | | | | | | | | | |
| Total | | 299.2 | 323.9 | 323.9 | 161.9 | 161.9 | 161.9 | 161.9 | 141.1 | 141.1 | |

Note: Totals may not match sum of individual values because of rounding.

**Table 80
Alternative 3 Daily SOx Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.0 | | 0.0 | 0.0 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 0.1 | | | | 0.1 | 0.1 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 0.1 | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | 0.1 | 0.1 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.0 | | 0.0 | 0.0 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 0.1 | | | | 0.1 | 0.1 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 0.1 | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | 0.1 | 0.1 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | 0.0 | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | | 0.0 | 0.0 | |
| Convert Third Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | | | | | | | | 0.1 |
| Convert Third Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | | | | | | 0.1 | 0.1 | 0.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | | | | | | 0.0 | 0.0 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | | | | | | | | 0.1 |
| Convert Fourth Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | | | | | | 0.1 | 0.1 | 0.1 |
| New Loading Lane - Skid Piping Installation | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 0.1 | | | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 0.1 | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | |
| New Loading Lane - Paving | 0.1 | | | | | | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.1 | | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | |
| Rack Operations Building - Foundations Construction | 0.1 | | | 0.1 | 0.1 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 0.1 | | | | | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | | | |
| Total | | 0.4 | 0.6 | 0.7 | 0.9 | 0.7 | 0.7 | 0.7 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 |

Note: Totals may not match sum of individual values because of rounding.

Table 80
Alternative 3 Daily SOx Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | |
|---|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | |
| Convert First Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 0.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 0.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 0.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 0.1 | 0.1 | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | |
| Convert Third Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | 0.1 | 0.1 | |
| Convert Third Tank to Ethanol - Manifold Modifications | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 0.0 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 0.0 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 0.1 | 0.1 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 0.1 | | | | | | | | 0.1 | 0.1 | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 0.1 | 0.1 | 0.1 | 0.1 | | | | | | | |
| New Loading Lane - Skid Piping Installation | 0.1 | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 0.1 | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 0.1 | | | | | | | | | | |
| New Loading Lane - Paving | 0.1 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 0.1 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 0.1 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 0.1 | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 0.1 | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 0.1 | | | | | | | | | | |
| Total | | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |

Note: Totals may not match sum of individual values because of rounding.

**Table 81
Alternative 3 Daily PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 3.1 | 3.1 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 3.3 | | 3.3 | 3.3 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5.1 | | | | 5.1 | 5.1 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 11.9 | | | | | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | 4.9 | 4.9 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 3.3 | | 3.3 | 3.3 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5.1 | | | | 5.1 | 5.1 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 11.9 | | | | | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | 4.9 | 4.9 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 11.9 | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | 3.1 | | |
| Convert Third Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | 3.3 | 3.3 | |
| Convert Third Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | | | | | | | | 5.1 |
| Convert Third Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | | | | | | 11.9 | 11.9 | 11.9 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | | | | | | 3.3 | 3.3 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | | | | | | | | 5.1 |
| Convert Fourth Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | | | | | | 11.9 | 11.9 | 11.9 |
| New Loading Lane - Skid Piping Installation | 12.6 | 12.6 | 12.6 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 12.6 | | | 12.6 | 12.6 | 12.6 | 12.6 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 13.6 | | | | | | | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 | | | | | |
| New Loading Lane - Paving | 12.5 | | | | | | | | | | | | | 12.5 | 12.5 | 12.5 | 12.5 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 11.0 | | | | | | | | | 11.0 | 11.0 | 11.0 | 11.0 | | | | | |
| Rack Operations Building - Foundations Construction | 16.7 | | | 16.7 | 16.7 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 14.4 | | | | | 14.4 | 14.4 | 14.4 | 14.4 | | | | | | | | | |
| Total | | 52.0 | 67.4 | 84.1 | 87.7 | 61.0 | 74.6 | 75.6 | 51.8 | 48.4 | 48.4 | 48.4 | 34.5 | 22.4 | 39.4 | 42.9 | 42.9 | 33.9 |

Note: Totals may not match sum of individual values because of rounding.

**Table 81
Alternative 3 Daily PM10 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|--|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | |
| Convert First Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 11.9 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 11.9 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 5.1 | 5.1 | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 11.9 | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | 4.9 | 4.9 | |
| Convert Third Tank to Ethanol - Manifold Modifications | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 3.1 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 3.3 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 5.1 | 5.1 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 11.9 | | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 4.9 | | | | | | | | 4.9 | 4.9 | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 11.9 | 11.9 | 11.9 | 11.9 | | | | | | | |
| New Loading Lane - Skid Piping Installation | 12.6 | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 12.6 | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 13.6 | | | | | | | | | | |
| New Loading Lane - Paving | 12.5 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 12.0 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 12.3 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 11.0 | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 16.7 | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 14.4 | | | | | | | | | | |
| Total | | 33.9 | 47.6 | 47.6 | 23.8 | 23.8 | 23.8 | 23.8 | 9.8 | 9.8 | |

Note: Totals may not match sum of individual values because of rounding.

**Table 82
Alternative 3 Daily PM2.5 Emissions by Construction Week**

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 1.0 | 1.0 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 1.1 | | 1.1 | 1.1 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 2.4 | | | | 2.4 | 2.4 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 4.5 | | | | | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | 2.6 | 2.6 | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 1.1 | | 1.1 | 1.1 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 2.4 | | | | 2.4 | 2.4 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 4.5 | | | | | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | 2.6 | 2.6 | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 4.5 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | 1.0 | | | |
| Convert Third Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | 1.1 | 1.1 | |
| Convert Third Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | | | | | | | | 2.4 |
| Convert Third Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | | | | | | 4.5 | 4.5 | 4.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | | | | | | 1.1 | 1.1 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | | | | | | | | 2.4 |
| Convert Fourth Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | | | | | | 4.5 | 4.5 | 4.5 |
| New Loading Lane - Skid Piping Installation | 4.9 | 4.9 | 4.9 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 4.9 | | | 4.9 | 4.9 | 4.9 | 4.9 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 5.2 | | | | | | | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | | | | | | |
| New Loading Lane - Paving | 4.7 | | | | | | | | | | | | | 4.7 | 4.7 | 4.7 | 4.7 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 4.1 | | | | | | | | | 4.1 | 4.1 | 4.1 | 4.1 | | | | | |
| Rack Operations Building - Foundations Construction | 5.9 | | | 5.9 | 5.9 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 5.6 | | | | | 5.6 | 5.6 | 5.6 | 5.6 | | | | | | | | | |
| Total | | 19.3 | 25.0 | 30.9 | 33.5 | 24.3 | 28.5 | 28.9 | 19.9 | 18.4 | 18.4 | 18.4 | 14.6 | 9.9 | 14.7 | 16.0 | 16.0 | 13.8 |

Note: Totals may not match sum of individual values because of rounding.

Table 82
Alternative 3 Daily PM2.5 Emissions by Construction Week

| Construction Phase | Daily Emissions (lb/day) | Construction Week | | | | | | | | | |
|---|--------------------------|-------------------|-------------|-------------|------------|------------|------------|------------|------------|------------|--|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | |
| Convert First Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 2.4 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 4.5 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 4.5 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 2.4 | 2.4 | | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 4.5 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | |
| Convert Third Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | 2.6 | 2.6 | |
| Convert Third Tank to Ethanol - Manifold Modifications | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 1.0 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 1.1 | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 2.4 | 2.4 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 4.5 | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 2.6 | | | | | | | | 2.6 | 2.6 | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 4.5 | 4.5 | 4.5 | 4.5 | | | | | | | |
| New Loading Lane - Skid Piping Installation | 4.9 | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 4.9 | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 5.2 | | | | | | | | | | |
| New Loading Lane - Paving | 4.7 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 4.3 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 4.6 | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 4.1 | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 5.9 | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 5.6 | | | | | | | | | | |
| Total | | 13.8 | 18.0 | 18.0 | 9.0 | 9.0 | 9.0 | 9.0 | 5.2 | 5.2 | |

Note: Totals may not match sum of individual values because of rounding.

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert First Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert First Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |
| Convert First Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert First Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert First Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert First Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert First Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| Convert First Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert First Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert First Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| Convert First Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert First Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert First Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert First Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert First Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert Second Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |
| Convert Second Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Second Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert Second Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Second Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert Second Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| Convert Second Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert Second Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Second Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| Convert Second Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Second Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Second Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert Third Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Third Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert Third Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |
| | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Third Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert Third Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| | | | | | | |
| Convert Third Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert Third Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Third Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Third Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Third Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Third Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | | | | |
| Construction Equipment Exhaust | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Degassing Emissions | 33.0 | 7.3 | 13.4 | 0.0 | 0.7 | 0.7 |
| Convert Fourth Tank to Ethanol - Draining and Degassing On-Site Total | 33.1 | 7.5 | 13.5 | 0.0 | 2.6 | 0.9 |
| Off-Site Motor Vehicle Exhaust | 0.5 | 3.7 | 3.4 | 0.0 | 0.2 | 0.1 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 0.5 | 3.7 | 3.4 | 0.0 | 0.4 | 0.1 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | 33.6 | 11.2 | 16.8 | 0.0 | 3.1 | 1.0 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Cleaning | | | | | | |
| Construction Equipment Exhaust | 1.5 | 7.4 | 13.2 | 0.0 | 0.7 | 0.6 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.0 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning On-Site Total | 1.5 | 7.8 | 13.4 | 0.0 | 2.6 | 0.8 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 10.1 | 7.0 | 0.0 | 0.4 | 0.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.2 | 0.0 |
| Off-Site Total | 1.3 | 10.1 | 7.0 | 0.0 | 0.6 | 0.3 |
| Convert Fourth Tank to Ethanol - Cleaning Total | 2.9 | 17.8 | 20.4 | 0.0 | 3.3 | 1.1 |
| Convert Fourth Tank to Ethanol - Lining Removal | | | | | | |
| Construction Equipment Exhaust | 4.9 | 16.5 | 57.5 | 0.1 | 1.8 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 2.2 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal On-Site Total | 5.0 | 17.1 | 57.8 | 0.1 | 4.0 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.3 | 17.8 | 10.8 | 0.0 | 0.6 | 0.5 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.4 | 0.0 |
| Off-Site Total | 2.3 | 17.8 | 10.8 | 0.0 | 1.0 | 0.5 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | 7.3 | 34.9 | 68.6 | 0.1 | 5.1 | 2.4 |
| Convert Fourth Tank to Ethanol - Repairs | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| Convert Fourth Tank to Ethanol - Repairs On-Site Total | 12.9 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Fourth Tank to Ethanol - Repairs Total | 14.9 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | | | | |
| Construction Equipment Exhaust | 4.9 | 18.5 | 54.1 | 0.1 | 1.9 | 1.7 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.2 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 0.0 | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating On-Site Total | 4.9 | 18.8 | 54.4 | 0.1 | 3.3 | 1.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | 6.9 | 30.6 | 70.5 | 0.1 | 4.9 | 2.6 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications On-Site Total | 16.2 | 33.3 | 64.8 | 0.1 | 10.3 | 3.8 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | 18.1 | 45.1 | 81.0 | 0.1 | 11.9 | 4.5 |
| New Loading Lane - Skid Piping Installation | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 3.2 | | | | | |
| New Loading Lane - Skid Piping Installation On-Site Total | 14.1 | 36.5 | 68.2 | 0.1 | 11.1 | 4.2 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| New Loading Lane - Skid Piping Installation Total | 16.1 | 48.3 | 84.3 | 0.1 | 12.6 | 4.9 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Canopy Structure Installation | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 8.0 | | | | | |
| New Loading Lane - Canopy Structure Installation On-Site Total | 18.9 | 36.5 | 68.2 | 0.1 | 11.1 | 4.2 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| New Loading Lane - Canopy Structure Installation Total | 20.9 | 48.3 | 84.3 | 0.1 | 12.6 | 4.9 |
| New Loading Lane - Rack Piping Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.7 | 0.8 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 6.4 | | | | | |
| New Loading Lane - Rack Piping Modifications On-Site Total | 16.1 | 33.0 | 64.5 | 0.1 | 11.0 | 3.9 |
| Off-Site Motor Vehicle Exhaust | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.0 | 0.0 |
| Off-Site Total | 3.2 | 16.9 | 31.6 | 0.0 | 2.6 | 1.3 |
| New Loading Lane - Rack Piping Modifications Total | 19.3 | 49.9 | 96.1 | 0.1 | 13.6 | 5.2 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|---|--------------------------|-------------|-------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Paving | | | | | | |
| Construction Equipment Exhaust | 4.7 | 16.8 | 21.4 | 0.0 | 1.6 | 1.5 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.6 | 1.2 | 0.0 | 0.1 | 0.1 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.6 | 0.8 |
| Earthwork Fugitive PM | | | | | 0.1 | 0.0 |
| Asphaltic Paving VOC | 0.5 | | | | | |
| Painting VOC | 0.0 | | | | | |
| New Loading Lane - Paving On-Site Total | 5.3 | 17.4 | 22.6 | 0.0 | 8.4 | 2.4 |
| Off-Site Motor Vehicle Exhaust | 5.1 | 24.6 | 54.8 | 0.1 | 2.7 | 2.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.4 | 0.0 |
| Off-Site Total | 5.1 | 24.6 | 54.8 | 0.1 | 4.1 | 2.3 |
| New Loading Lane - Paving Total | 10.5 | 41.9 | 77.4 | 0.1 | 12.5 | 4.7 |
| | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | | | | |
| Construction Equipment Exhaust | 7.6 | 27.6 | 59.8 | 0.1 | 2.8 | 2.6 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.4 | 0.7 |
| Earthwork Fugitive PM | | | | | 1.4 | 0.3 |
| Painting VOC | 0.0 | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction On-Site Total | 7.7 | 27.9 | 60.3 | 0.1 | 10.7 | 3.6 |
| Off-Site Motor Vehicle Exhaust | 1.7 | 9.1 | 15.9 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.7 | 9.1 | 15.9 | 0.0 | 1.4 | 0.7 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | 9.3 | 37.0 | 76.1 | 0.1 | 12.0 | 4.3 |
| | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.0 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.4 | 0.1 |
| Painting VOC | 8.0 | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications On-Site Total | 17.8 | 33.3 | 64.8 | 0.1 | 10.8 | 3.9 |
| Off-Site Motor Vehicle Exhaust | 2.0 | 11.8 | 16.1 | 0.0 | 0.8 | 0.7 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.8 | 0.0 |
| Off-Site Total | 2.0 | 11.8 | 16.1 | 0.0 | 1.6 | 0.7 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | 19.7 | 45.1 | 81.0 | 0.1 | 12.3 | 4.6 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|--------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| New Loading Lane - Ethanol Pumps Pump Installation | | | | | | |
| Construction Equipment Exhaust | 9.7 | 32.9 | 64.3 | 0.1 | 3.3 | 3.1 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 6.6 | 0.7 |
| Earthwork Fugitive PM | | | | | 0.0 | 0.0 |
| Painting VOC | 3.2 | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation On-Site Total | 12.9 | 33.3 | 64.7 | 0.1 | 10.0 | 3.7 |
| Off-Site Motor Vehicle Exhaust | 1.3 | 9.3 | 8.4 | 0.0 | 0.5 | 0.4 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 0.6 | 0.0 |
| Off-Site Total | 1.3 | 9.3 | 8.4 | 0.0 | 1.1 | 0.4 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | 14.3 | 42.5 | 73.1 | 0.1 | 11.0 | 4.1 |
| Rack Operations Building - Foundations Construction | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 9.6 | 1.0 |
| Earthwork Fugitive PM | | | | | 0.9 | 0.2 |
| Painting VOC | 0.0 | | | | | |
| Rack Operations Building - Foundations Construction On-Site Total | 10.9 | 36.6 | 68.6 | 0.1 | 14.1 | 4.6 |
| Off-Site Motor Vehicle Exhaust | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.0 | 0.0 |
| Off-Site Total | 3.2 | 16.9 | 31.6 | 0.0 | 2.6 | 1.3 |
| Rack Operations Building - Foundations Construction Total | 14.1 | 53.6 | 100.2 | 0.1 | 16.7 | 5.9 |

Table 83
Alternative 3 Daily Emissions by Construction Phase

| Source | Daily Emissions (lb/day) | | | | | |
|--|--------------------------|-------------|--------------|------------|-------------|------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 |
| Rack Operations Building - Demolition and Building Construction | | | | | | |
| Construction Equipment Exhaust | 10.8 | 36.1 | 67.7 | 0.1 | 3.6 | 3.3 |
| On-Site Motor Vehicle Exhaust | 0.1 | 0.5 | 0.8 | 0.0 | 0.0 | 0.0 |
| On-Site Motor Vehicle Fugitive PM | | | | | 7.7 | 0.8 |
| Earthwork Fugitive PM | | | | | 0.5 | 0.1 |
| Painting VOC | 8.0 | | | | | |
| Rack Operations Building - Demolition and Building Construction On-Site Total | 18.9 | 36.6 | 68.5 | 0.1 | 11.8 | 4.3 |
| Off-Site Motor Vehicle Exhaust | 3.2 | 16.9 | 31.6 | 0.0 | 1.6 | 1.3 |
| Off-Site Motor Vehicle Fugitive PM | | | | | 1.0 | 0.0 |
| Off-Site Total | 3.2 | 16.9 | 31.6 | 0.0 | 2.6 | 1.3 |
| Rack Operations Building - Demolition and Building Construction Total | 22.2 | 53.6 | 100.1 | 0.1 | 14.4 | 5.6 |

Note: Totals may not match sum of individual values because of rounding.

Table 84
Alternative 3 Construction Greenhouse Gas
Emissions Summary

| Source | Emissions (MT CO₂e) |
|---------------------------------------|---|
| Construction Equipment Exhaust | 1,592.7 |
| On-Site Motor Vehicle Exhaust | 23.9 |
| Thermal Oxidizer | 25.3 |
| Off-Site Motor Vehicle Exhaust | 790.4 |
| Water conveyance electrical power use | 0.0 |
| Total | 2,432.3 |

Note: Totals may not match sum of individual values because of rounding.

Table 85
Alternative 3 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|---|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert First Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert First Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| Convert First Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert First Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| Convert First Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert First Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |
| Convert First Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert First Tank to Ethanol - Repairs Total | 140 | 0 | 140 |
| Convert First Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert First Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |

Table 85
Alternative 3 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert First Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert First Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| Convert Second Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert Second Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| Convert Second Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert Second Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| Convert Second Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert Second Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |
| Convert Second Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert Second Tank to Ethanol - Repairs Total | 140 | 0 | 140 |

Table 85
Alternative 3 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert Second Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert Second Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |
| Convert Second Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert Second Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| Convert Third Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert Third Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| Convert Third Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert Third Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |
| Convert Third Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert Third Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |

Table 85
Alternative 3 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert Third Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert Third Tank to Ethanol - Repairs Total | 140 | 0 | 140 |
| Convert Third Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert Third Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |
| Convert Third Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert Third Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | | | |
| Construction Equipment Exhaust | 0 | 0 | 0 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Thermal Oxidizer | 6 | 0 | 6 |
| Off-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Convert Fourth Tank to Ethanol - Draining and Degassing Total | 7 | 0 | 7 |
| Convert Fourth Tank to Ethanol - Cleaning | | | |
| Construction Equipment Exhaust | 6 | 0 | 6 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 4 | 0 | 4 |
| Convert Fourth Tank to Ethanol - Cleaning Total | 10 | 0 | 10 |

Table 85
Alternative 3 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| Convert Fourth Tank to Ethanol - Lining Removal | | | |
| Construction Equipment Exhaust | 30 | 0 | 30 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 7 | 0 | 7 |
| Convert Fourth Tank to Ethanol - Lining Removal Total | 37 | 0 | 37 |
| Convert Fourth Tank to Ethanol - Repairs | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 42 | 0 | 42 |
| Convert Fourth Tank to Ethanol - Repairs Total | 140 | 0 | 140 |
| Convert Fourth Tank to Ethanol - Internal Coating | | | |
| Construction Equipment Exhaust | 25 | 0 | 25 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| Convert Fourth Tank to Ethanol - Internal Coating Total | 40 | 0 | 40 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | | | |
| Construction Equipment Exhaust | 112 | 0 | 113 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 49 | 0 | 49 |
| Convert Fourth Tank to Ethanol - Manifold Modifications Total | 163 | 0 | 163 |
| New Loading Lane - Skid Piping Installation | | | |
| Construction Equipment Exhaust | 34 | 0 | 34 |
| On-Site Motor Vehicle Exhaust | 0 | 0 | 0 |
| Off-Site Motor Vehicle Exhaust | 14 | 0 | 14 |
| New Loading Lane - Skid Piping Installation Total | 48 | 0 | 48 |

Table 85
Alternative 3 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|---|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| New Loading Lane - Canopy Structure Installation | | | |
| Construction Equipment Exhaust | 67 | 0 | 68 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 28 | 0 | 28 |
| New Loading Lane - Canopy Structure Installation Total | 96 | 0 | 96 |
| New Loading Lane - Rack Piping Modifications | | | |
| Construction Equipment Exhaust | 96 | 0 | 97 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 70 | 0 | 71 |
| New Loading Lane - Rack Piping Modifications Total | 169 | 0 | 169 |
| New Loading Lane - Paving | | | |
| Construction Equipment Exhaust | 20 | 0 | 20 |
| On-Site Motor Vehicle Exhaust | 2 | 0 | 2 |
| Off-Site Motor Vehicle Exhaust | 76 | 0 | 76 |
| New Loading Lane - Paving Total | 97 | 0 | 98 |
| New Loading Lane - Ethanol Pumps Foundations Construction | | | |
| Construction Equipment Exhaust | 60 | 0 | 60 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 24 | 0 | 24 |
| New Loading Lane - Ethanol Pumps Foundations Construction Total | 85 | 0 | 86 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | | | |
| Construction Equipment Exhaust | 64 | 0 | 64 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 28 | 0 | 28 |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications Total | 93 | 0 | 93 |

Table 85
Alternative 3 Construction Greenhouse Gas Emissions by Construction Phase

| Source | Total Emissions (MT) | | |
|--|----------------------|-----------------|--------------------------------|
| | CO ₂ | CH ₄ | CO ₂ e ^a |
| New Loading Lane - Ethanol Pumps Pump Installation | | | |
| Construction Equipment Exhaust | 64 | 0 | 64 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 18 | 0 | 18 |
| New Loading Lane - Ethanol Pumps Pump Installation Total | 83 | 0 | 83 |
| | | | |
| Rack Operations Building - Foundations Construction | | | |
| Construction Equipment Exhaust | 34 | 0 | 34 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 23 | 0 | 24 |
| Rack Operations Building - Foundations Construction Total | 58 | 0 | 58 |
| | | | |
| Rack Operations Building - Demolition and Building Construction | | | |
| Construction Equipment Exhaust | 67 | 0 | 68 |
| On-Site Motor Vehicle Exhaust | 1 | 0 | 1 |
| Off-Site Motor Vehicle Exhaust | 47 | 0 | 47 |
| Rack Operations Building - Demolition and Building Construction Total | 116 | 0 | 116 |
| | | | |
| Total Construction Emissions | 2,428 | 0 | 2,432 |

Note: Totals may not match sum of individual values because of rounding.

^a Emissions [MT CO₂e] = CO₂ emissions [MT] + 21 x CH₄ emissions [MT]

Table 86
Alternative 3 Maximum Daily Construction Workers and Off-Site Construction Trucks by Construction Month

| Component | Construction Month: | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---------------------|------------|------------|------------|------------|------------|------------|
| | Construction Weeks: | 1-4 | 5-8 | 9-13 | 14-17 | 18-21 | 22-26 |
| Construction Workers | | | | | | | |
| Storage Tank Conversions | | 80 | 100 | 50 | 80 | 100 | 50 |
| New Loading Lane | | 65 | 25 | 50 | 25 | 0 | 0 |
| Operations Building Expansion | | 25 | 25 | 0 | 0 | 0 | 0 |
| Total Construction Workers | | 170 | 150 | 100 | 105 | 100 | 50 |
| Off-Site Construction Trucks | | | | | | | |
| Storage Tank Conversions | | 30 | 40 | 20 | 30 | 40 | 20 |
| New Loading Lane | | 30 | 20 | 35 | 35 | 0 | 0 |
| Operations Building Expansion | | 20 | 20 | 0 | 0 | 0 | 0 |
| Total Off-Site Construction Trucks | | 80 | 80 | 55 | 65 | 40 | 20 |
| Ethanol Tanker Trucks | | | | | | | |
| Existing Loading Rack | | 52 | 52 | 52 | 52 | 52 | 52 |
| New Loading Rack | | 0 | 0 | 0 | 0 | 92 | 92 |
| Total | | 52 | 52 | 52 | 52 | 144 | 144 |

Table 87
Alternative 3 Increase in Hourly Passenger Car Equivalent Trips by Construction Month

| Vehicle Type | Construction Month | | | | | | |
|-----------------------|--------------------|------------|------------|------------|------------|-----------|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | |
| Worker Commute | 170 | 150 | 100 | 105 | 100 | 50 | |
| Construction Trucks | 34 | 34 | 24 | 28 | 18 | 10 | |
| Ethanol Tanker Trucks | 8 | 8 | 8 | 8 | 24 | 24 | |
| Total | 212 | 192 | 132 | 141 | 142 | 84 | |

**Table 88
Alternative 3 Daily Construction Workers by Construction Week**

| Construction Phase | Daily Workers (number/day) | Construction Week | | | | | | | | | | | | | | | | | |
|---|-------------------------------|-------------------|-----------|-----------|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| Convert First Tank to Ethanol - Draining and Degassing | 10 | 10 | | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 10 | | 10 | 10 | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 15 | | | | 15 | 15 | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 25 | | | | | | 25 | 25 | 25 | 25 | 25 | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | 25 | 25 | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 10 | | 10 | 10 | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 15 | | | | 15 | 15 | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 25 | | | | | | 25 | 25 | 25 | 25 | 25 | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | 25 | 25 | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | 10 | | | |
| Convert Third Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | 10 | 10 | |
| Convert Third Tank to Ethanol - Lining Removal | 15 | | | | | | | | | | | | | | | | | 15 | |
| Convert Third Tank to Ethanol - Repairs | 25 | | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | | | | | | | 25 | 25 | 25 | 25 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | | | | | | | 10 | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 10 | | | | | | | | | | | | | | | | 10 | 10 | |
| Convert Fourth Tank to Ethanol - Lining Removal | 15 | | | | | | | | | | | | | | | | | 15 | |
| Convert Fourth Tank to Ethanol - Repairs | 25 | | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 25 | | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | | | | | | | 25 | 25 | 25 | 25 |
| New Loading Lane - Skid Piping Installation | 25 | 25 | 25 | | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 25 | | | 25 | 25 | 25 | 25 | | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 25 | | | | | | | 25 | 25 | 25 | 25 | 25 | 25 | | | | | | |
| New Loading Lane - Paving | 25 | | | | | | | | | | | | | 25 | 25 | 25 | 25 | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 15 | 15 | 15 | 15 | 15 | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 25 | 25 | 25 | 25 | 25 | | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 25 | | | | | | | | | 25 | 25 | 25 | 25 | | | | | | |
| Rack Operations Building - Foundations Construction | 25 | | | 25 | 25 | | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 25 | | | | | 25 | 25 | 25 | 25 | | | | | | | | | | |
| Storage Tank Conversions Total | | 35 | 70 | 70 | 80 | 80 | 100 | 100 | 50 | 50 | 50 | 50 | 50 | 50 | 70 | 70 | 70 | 80 | |
| New Loading Lane Total | | 65 | 65 | 65 | 65 | 25 | 25 | 25 | 25 | 50 | 50 | 50 | 50 | 25 | 25 | 25 | 25 | 0 | |
| Operations Building Expansion Total | | 0 | 0 | 25 | 25 | 25 | 25 | 25 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

Table 88
Alternative 3 Daily Construction Workers by Construction Week

| Construction Phase | Daily Workers (number/day) | Construction Week | | | | | | | | |
|---|-------------------------------|-------------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Convert First Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 10 | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 15 | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 25 | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 25 | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | |
| | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 10 | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 15 | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 25 | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 25 | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 25 | | | | | | | | | |
| | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 10 | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 15 | 15 | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | | |
| Convert Third Tank to Ethanol - Internal Coating | 25 | | | | | | | | 25 | 25 |
| Convert Third Tank to Ethanol - Manifold Modifications | 25 | 25 | 25 | 25 | | | | | | |
| | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 10 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 10 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 15 | 15 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 25 | | 25 | 25 | 25 | 25 | 25 | 25 | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 25 | | | | | | | | 25 | 25 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 25 | 25 | 25 | 25 | | | | | | |
| | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 25 | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 25 | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 25 | | | | | | | | | |
| New Loading Lane - Paving | 25 | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 15 | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 25 | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 25 | | | | | | | | | |
| | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 25 | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 25 | | | | | | | | | |
| | | | | | | | | | | |
| Storage Tank Conversions Total | | 80 | 100 | 100 | 50 | 50 | 50 | 50 | 50 | 50 |
| New Loading Lane Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Building Expansion Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 89
Alternative 3 Daily Off-Site Construction Trucks by Construction Week**

| Construction Phase | Daily Trucks (number/day) | Construction Week | | | | | | | | | | | | | | | | |
|---|------------------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Convert First Tank to Ethanol - Draining and Degassing | 2 | 2 | | | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2 | | 2 | 2 | | | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5 | | | | 5 | 5 | | | | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 10 | | | | | | 10 | 10 | 10 | 10 | 10 | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | 10 | 10 | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2 | | 2 | 2 | | | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5 | | | | 5 | 5 | | | | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 10 | | | | | | 10 | 10 | 10 | 10 | 10 | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | 10 | 10 | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | 2 | | |
| Convert Third Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | 2 | 2 |
| Convert Third Tank to Ethanol - Lining Removal | 5 | | | | | | | | | | | | | | | | | 5 |
| Convert Third Tank to Ethanol - Repairs | 10 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | | | | | | | |
| Convert Third Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | | | | | | 10 | 10 | 10 | 10 |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | | | | | | | 2 | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2 | | | | | | | | | | | | | | | | 2 | 2 |
| Convert Fourth Tank to Ethanol - Lining Removal | 5 | | | | | | | | | | | | | | | | | 5 |
| Convert Fourth Tank to Ethanol - Repairs | 10 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 10 | | | | | | | | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | | | | | | 10 | 10 | 10 | 10 |
| New Loading Lane - Skid Piping Installation | 10 | 10 | 10 | | | | | | | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 10 | | | 10 | 10 | 10 | 10 | | | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 20 | | | | | | | 20 | 20 | 20 | 20 | 20 | 20 | | | | | |
| New Loading Lane - Paving | 35 | | | | | | | | | | | | | 35 | 35 | 35 | 35 | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 5 | | | | | | | | | 5 | 5 | 5 | 5 | | | | | |
| Rack Operations Building - Foundations Construction | 20 | | | 20 | 20 | | | | | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 20 | | | | | 20 | 20 | 20 | 20 | | | | | | | | | |
| Storage Tank Conversions Total | | 12 | 24 | 24 | 30 | 30 | 40 | 40 | 20 | 20 | 20 | 20 | 20 | 20 | 24 | 24 | 24 | 30 |
| New Loading Lane Total | | 30 | 30 | 30 | 30 | 10 | 10 | 20 | 20 | 25 | 25 | 25 | 25 | 35 | 35 | 35 | 35 | 0 |
| Operations Building Expansion Total | | 0 | 0 | 20 | 20 | 20 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 89
Alternative 3 Daily Off-Site Construction Trucks by Construction Week

| Construction Phase | Daily Trucks (number/day) | Construction Week | | | | | | | | |
|---|------------------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Convert First Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | |
| Convert First Tank to Ethanol - Cleaning | 2 | | | | | | | | | |
| Convert First Tank to Ethanol - Lining Removal | 5 | | | | | | | | | |
| Convert First Tank to Ethanol - Repairs | 10 | | | | | | | | | |
| Convert First Tank to Ethanol - Internal Coating | 10 | | | | | | | | | |
| Convert First Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | |
| | | | | | | | | | | |
| Convert Second Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | |
| Convert Second Tank to Ethanol - Cleaning | 2 | | | | | | | | | |
| Convert Second Tank to Ethanol - Lining Removal | 5 | | | | | | | | | |
| Convert Second Tank to Ethanol - Repairs | 10 | | | | | | | | | |
| Convert Second Tank to Ethanol - Internal Coating | 10 | | | | | | | | | |
| Convert Second Tank to Ethanol - Manifold Modifications | 10 | | | | | | | | | |
| | | | | | | | | | | |
| Convert Third Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | |
| Convert Third Tank to Ethanol - Cleaning | 2 | | | | | | | | | |
| Convert Third Tank to Ethanol - Lining Removal | 5 | 5 | | | | | | | | |
| Convert Third Tank to Ethanol - Repairs | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | | |
| Convert Third Tank to Ethanol - Internal Coating | 10 | | | | | | | | 10 | 10 |
| Convert Third Tank to Ethanol - Manifold Modifications | 10 | 10 | 10 | 10 | | | | | | |
| | | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Draining and Degassing | 2 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Cleaning | 2 | | | | | | | | | |
| Convert Fourth Tank to Ethanol - Lining Removal | 5 | 5 | | | | | | | | |
| Convert Fourth Tank to Ethanol - Repairs | 10 | | 10 | 10 | 10 | 10 | 10 | 10 | | |
| Convert Fourth Tank to Ethanol - Internal Coating | 10 | | | | | | | | 10 | 10 |
| Convert Fourth Tank to Ethanol - Manifold Modifications | 10 | 10 | 10 | 10 | | | | | | |
| | | | | | | | | | | |
| New Loading Lane - Skid Piping Installation | 10 | | | | | | | | | |
| New Loading Lane - Canopy Structure Installation | 10 | | | | | | | | | |
| New Loading Lane - Rack Piping Modifications | 20 | | | | | | | | | |
| New Loading Lane - Paving | 35 | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Foundations Construction | 10 | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Manifold Piping Modifications | 10 | | | | | | | | | |
| New Loading Lane - Ethanol Pumps Pump Installation | 5 | | | | | | | | | |
| | | | | | | | | | | |
| Rack Operations Building - Foundations Construction | 20 | | | | | | | | | |
| Rack Operations Building - Demolition and Building Construction | 20 | | | | | | | | | |
| | | | | | | | | | | |
| Storage Tank Conversions Total | | 30 | 40 | 40 | 20 | 20 | 20 | 20 | 20 | 20 |
| New Loading Lane Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Building Expansion Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 90
2012 SCAB Fleet Average Emission Factors (Diesel)

2012 Offroad EFs

| | |
|------------------|-----------|
| Air Basin | SC |
|------------------|-----------|

| Equipment | MaxHP | (lb/hr) ROG | (lb/hr) CO | (lb/hr) NOX | (lb/hr) SOX | (lb/hr) PM | (lb/hr) CO2 | (lb/hr) CH4 |
|------------------------------------|--------------|------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|
| Aerial Lifts | 15 | 0.0102 | 0.0528 | 0.0642 | 0.0001 | 0.0030 | 8.7 | 0.0009 |
| | 25 | 0.0175 | 0.0517 | 0.0957 | 0.0001 | 0.0055 | 11.0 | 0.0016 |
| | 50 | 0.0650 | 0.1822 | 0.1916 | 0.0003 | 0.0169 | 19.6 | 0.0059 |
| | 120 | 0.0607 | 0.2451 | 0.4012 | 0.0004 | 0.0324 | 38.1 | 0.0055 |
| | 500 | 0.1276 | 0.4941 | 1.6553 | 0.0021 | 0.0491 | 213 | 0.0115 |
| | 750 | 0.2379 | 0.8930 | 3.0795 | 0.0039 | 0.0903 | 385 | 0.0215 |
| Aerial Lifts Composite | | 0.0576 | 0.1976 | 0.3249 | 0.0004 | 0.0219 | 34.7 | 0.0052 |
| Air Compressors | 15 | 0.0129 | 0.0494 | 0.0768 | 0.0001 | 0.0052 | 7.2 | 0.0012 |
| | 25 | 0.0286 | 0.0779 | 0.1337 | 0.0002 | 0.0087 | 14.4 | 0.0026 |
| | 50 | 0.1010 | 0.2646 | 0.2310 | 0.0003 | 0.0239 | 22.3 | 0.0091 |
| | 120 | 0.0891 | 0.3287 | 0.5333 | 0.0006 | 0.0492 | 47.0 | 0.0080 |
| | 175 | 0.1135 | 0.5074 | 0.8954 | 0.0010 | 0.0512 | 88.5 | 0.0102 |
| | 250 | 0.1066 | 0.3052 | 1.2194 | 0.0015 | 0.0379 | 131 | 0.0096 |
| | 500 | 0.1709 | 0.5726 | 1.9077 | 0.0023 | 0.0623 | 232 | 0.0154 |
| | 750 | 0.2681 | 0.8849 | 3.0371 | 0.0036 | 0.0980 | 358 | 0.0242 |
| 1000 | 0.4533 | 1.5617 | 5.4098 | 0.0049 | 0.1589 | 486 | 0.0409 | |
| Air Compressors Composite | | 0.0984 | 0.3445 | 0.6494 | 0.0007 | 0.0469 | 63.6 | 0.0089 |
| Bore/Drill Rigs | 15 | 0.0120 | 0.0632 | 0.0754 | 0.0002 | 0.0029 | 10.3 | 0.0011 |
| | 25 | 0.0194 | 0.0658 | 0.1233 | 0.0002 | 0.0054 | 16.0 | 0.0017 |
| | 50 | 0.0351 | 0.2335 | 0.2768 | 0.0004 | 0.0149 | 31.0 | 0.0032 |
| | 120 | 0.0514 | 0.4724 | 0.5026 | 0.0009 | 0.0328 | 77.1 | 0.0046 |
| | 175 | 0.0750 | 0.7538 | 0.7479 | 0.0016 | 0.0366 | 141 | 0.0068 |
| | 250 | 0.0838 | 0.3435 | 0.8722 | 0.0021 | 0.0268 | 188 | 0.0076 |
| | 500 | 0.1354 | 0.5526 | 1.3152 | 0.0031 | 0.0437 | 311 | 0.0122 |
| | 750 | 0.2685 | 1.0916 | 2.6320 | 0.0062 | 0.0865 | 615 | 0.0242 |
| | 1000 | 0.4491 | 1.6773 | 6.6123 | 0.0093 | 0.1699 | 928 | 0.0405 |
| Bore/Drill Rigs Composite | | 0.0854 | 0.5068 | 0.9013 | 0.0017 | 0.0367 | 165 | 0.0077 |
| Cement and Mortar Mixers | 15 | 0.0075 | 0.0386 | 0.0475 | 0.0001 | 0.0023 | 6.3 | 0.0007 |
| | 25 | 0.0293 | 0.0852 | 0.1548 | 0.0002 | 0.0091 | 17.6 | 0.0026 |
| Cement and Mortar Mixers Composite | | 0.0093 | 0.0425 | 0.0564 | 0.0001 | 0.0029 | 7.2 | 0.0008 |
| Concrete/Industrial Saws | 25 | 0.0199 | 0.0678 | 0.1261 | 0.0002 | 0.0050 | 16.5 | 0.0018 |
| | 50 | 0.1047 | 0.3015 | 0.2972 | 0.0004 | 0.0268 | 30.2 | 0.0094 |
| | 120 | 0.1155 | 0.4880 | 0.7625 | 0.0009 | 0.0639 | 74.1 | 0.0104 |
| | 175 | 0.1685 | 0.8723 | 1.4507 | 0.0018 | 0.0767 | 160 | 0.0152 |
| Concrete/Industrial Saws Composite | | 0.1090 | 0.4148 | 0.5910 | 0.0007 | 0.0491 | 58.5 | 0.0098 |
| Cranes | 50 | 0.1101 | 0.2979 | 0.2478 | 0.0003 | 0.0258 | 23.2 | 0.0099 |
| | 120 | 0.0982 | 0.3650 | 0.5844 | 0.0006 | 0.0533 | 50.1 | 0.0089 |
| | 175 | 0.1089 | 0.4838 | 0.8259 | 0.0009 | 0.0479 | 80.3 | 0.0098 |
| | 250 | 0.1103 | 0.3103 | 1.0712 | 0.0013 | 0.0388 | 112 | 0.0100 |
| | 500 | 0.1635 | 0.5691 | 1.5327 | 0.0018 | 0.0571 | 180 | 0.0148 |
| | 750 | 0.2767 | 0.9554 | 2.6486 | 0.0030 | 0.0974 | 303 | 0.0250 |
| | 9999 | 0.9905 | 3.5715 | 10.9484 | 0.0098 | 0.3384 | 971 | 0.0894 |
| Cranes Composite | | 0.1425 | 0.4946 | 1.2753 | 0.0014 | 0.0553 | 129 | 0.0129 |

Table 90
2012 SCAB Fleet Average Emission Factors (Diesel)

2012 Offroad EFs

| | |
|------------------|-----------|
| Air Basin | SC |
|------------------|-----------|

| Equipment | MaxHP | (lb/hr) ROG | (lb/hr) CO | (lb/hr) NOX | (lb/hr) SOX | (lb/hr) PM | (lb/hr) CO2 | (lb/hr) CH4 |
|-------------------------------|--------------|------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|
| Crawler Tractors | 50 | 0.1262 | 0.3333 | 0.2713 | 0.0003 | 0.0289 | 24.9 | 0.0114 |
| | 120 | 0.1374 | 0.4906 | 0.8120 | 0.0008 | 0.0729 | 65.8 | 0.0124 |
| | 175 | 0.1758 | 0.7491 | 1.3245 | 0.0014 | 0.0765 | 121 | 0.0159 |
| | 250 | 0.1854 | 0.5225 | 1.7044 | 0.0019 | 0.0667 | 166 | 0.0167 |
| | 500 | 0.2659 | 1.0217 | 2.3914 | 0.0025 | 0.0942 | 259 | 0.0240 |
| | 750 | 0.4784 | 1.8248 | 4.3817 | 0.0047 | 0.1705 | 465 | 0.0432 |
| | 1000 | 0.7229 | 2.8959 | 7.7626 | 0.0066 | 0.2503 | 658 | 0.0652 |
| Crawler Tractors Composite | | 0.1671 | 0.6051 | 1.2309 | 0.0013 | 0.0752 | 114 | 0.0151 |
| Crushing/Proc. Equ | 50 | 0.1927 | 0.5215 | 0.4545 | 0.0006 | 0.0462 | 44.0 | 0.0174 |
| | 120 | 0.1525 | 0.5829 | 0.9172 | 0.0010 | 0.0851 | 83.1 | 0.0138 |
| | 175 | 0.2088 | 0.9654 | 1.6343 | 0.0019 | 0.0946 | 167 | 0.0188 |
| | 250 | 0.1953 | 0.5592 | 2.1896 | 0.0028 | 0.0682 | 245 | 0.0176 |
| | 500 | 0.2733 | 0.8961 | 2.9457 | 0.0037 | 0.0972 | 374 | 0.0247 |
| | 750 | 0.4361 | 1.3892 | 4.8387 | 0.0059 | 0.1560 | 589 | 0.0394 |
| | 9999 | 1.2112 | 4.0327 | 14.2648 | 0.0131 | 0.4203 | 1,308 | 0.1093 |
| Crushing/Proc. Equipment Comp | | 0.1872 | 0.6911 | 1.2633 | 0.0015 | 0.0819 | 132 | 0.0169 |
| Dumpers/Tenders | 25 | 0.0100 | 0.0324 | 0.0614 | 0.0001 | 0.0031 | 7.6 | 0.0009 |
| Dumpers/Tenders Composite | | 0.0100 | 0.0324 | 0.0614 | 0.0001 | 0.0031 | 7.6 | 0.0009 |
| Excavators | 25 | 0.0198 | 0.0677 | 0.1253 | 0.0002 | 0.0048 | 16.4 | 0.0018 |
| | 50 | 0.0912 | 0.2933 | 0.2568 | 0.0003 | 0.0237 | 25.0 | 0.0082 |
| | 120 | 0.1183 | 0.5220 | 0.7300 | 0.0009 | 0.0657 | 73.6 | 0.0107 |
| | 175 | 0.1288 | 0.6678 | 0.9613 | 0.0013 | 0.0569 | 112 | 0.0116 |
| | 250 | 0.1301 | 0.3630 | 1.2438 | 0.0018 | 0.0415 | 159 | 0.0117 |
| | 500 | 0.1805 | 0.5493 | 1.6112 | 0.0023 | 0.0574 | 234 | 0.0163 |
| | 750 | 0.3013 | 0.9096 | 2.7605 | 0.0039 | 0.0969 | 387 | 0.0272 |
| Excavators Composite | | 0.1300 | 0.5401 | 0.9817 | 0.0013 | 0.0536 | 120 | 0.0117 |
| Forklifts | 50 | 0.0514 | 0.1682 | 0.1488 | 0.0002 | 0.0136 | 14.7 | 0.0046 |
| | 120 | 0.0489 | 0.2195 | 0.3017 | 0.0004 | 0.0277 | 31.2 | 0.0044 |
| | 175 | 0.0624 | 0.3304 | 0.4664 | 0.0006 | 0.0278 | 56.1 | 0.0056 |
| | 250 | 0.0595 | 0.1638 | 0.5872 | 0.0009 | 0.0187 | 77.1 | 0.0054 |
| | 500 | 0.0806 | 0.2241 | 0.7257 | 0.0011 | 0.0252 | 111 | 0.0073 |
| Forklifts Composite | | 0.0585 | 0.2257 | 0.4330 | 0.0006 | 0.0231 | 54.4 | 0.0053 |
| Generator Sets | 15 | 0.0157 | 0.0698 | 0.1063 | 0.0002 | 0.0061 | 10.2 | 0.0014 |
| | 25 | 0.0276 | 0.0951 | 0.1632 | 0.0002 | 0.0096 | 17.6 | 0.0025 |
| | 50 | 0.0959 | 0.2734 | 0.2966 | 0.0004 | 0.0255 | 30.6 | 0.0087 |
| | 120 | 0.1206 | 0.4956 | 0.8099 | 0.0009 | 0.0640 | 77.9 | 0.0109 |
| | 175 | 0.1460 | 0.7413 | 1.3131 | 0.0016 | 0.0644 | 142 | 0.0132 |
| | 250 | 0.1372 | 0.4502 | 1.8047 | 0.0024 | 0.0508 | 213 | 0.0124 |
| | 500 | 0.1952 | 0.7617 | 2.5896 | 0.0033 | 0.0756 | 337 | 0.0176 |
| | 750 | 0.3257 | 1.2296 | 4.3019 | 0.0055 | 0.1241 | 544 | 0.0294 |
| | 9999 | 0.8673 | 3.0642 | 10.8871 | 0.0105 | 0.3104 | 1,049 | 0.0783 |
| Generator Sets Composite | | 0.0832 | 0.3121 | 0.5779 | 0.0007 | 0.0351 | 61.0 | 0.0075 |
| Graders | 50 | 0.1182 | 0.3365 | 0.2882 | 0.0004 | 0.0286 | 27.5 | 0.0107 |
| | 120 | 0.1348 | 0.5355 | 0.8223 | 0.0009 | 0.0740 | 75.0 | 0.0122 |
| | 175 | 0.1554 | 0.7363 | 1.1931 | 0.0014 | 0.0688 | 124 | 0.0140 |
| | 250 | 0.1575 | 0.4508 | 1.5344 | 0.0019 | 0.0547 | 172 | 0.0142 |
| | 500 | 0.1947 | 0.6639 | 1.8193 | 0.0023 | 0.0671 | 229 | 0.0176 |
| | 750 | 0.4147 | 1.4022 | 3.9602 | 0.0049 | 0.1439 | 486 | 0.0374 |
| Graders Composite | | 0.1533 | 0.6129 | 1.2503 | 0.0015 | 0.0649 | 133 | 0.0138 |

Table 90
2012 SCAB Fleet Average Emission Factors (Diesel)

2012 Offroad EFs

| | |
|------------------|-----------|
| Air Basin | SC |
|------------------|-----------|

| Equipment | MaxHP | (lb/hr) ROG | (lb/hr) CO | (lb/hr) NOX | (lb/hr) SOX | (lb/hr) PM | (lb/hr) CO2 | (lb/hr) CH4 |
|--|--------------|------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|
| Off-Highway Tractors | 120 | 0.2224 | 0.7269 | 1.2964 | 0.0011 | 0.1143 | 93.7 | 0.0201 |
| | 175 | 0.2135 | 0.8404 | 1.6085 | 0.0015 | 0.0923 | 130 | 0.0193 |
| | 250 | 0.1718 | 0.4896 | 1.5282 | 0.0015 | 0.0644 | 130 | 0.0155 |
| | 750 | 0.6814 | 3.0883 | 6.1417 | 0.0057 | 0.2515 | 568 | 0.0615 |
| | 1000 | 1.0246 | 4.8137 | 10.5080 | 0.0082 | 0.3620 | 814 | 0.0924 |
| Off-Highway Tractors Composite | | 0.2170 | 0.7878 | 1.7969 | 0.0017 | 0.0871 | 151 | 0.0196 |
| Off-Highway Trucks | 175 | 0.1533 | 0.7593 | 1.1072 | 0.0014 | 0.0666 | 125 | 0.0138 |
| | 250 | 0.1469 | 0.3944 | 1.3513 | 0.0019 | 0.0461 | 167 | 0.0133 |
| | 500 | 0.2263 | 0.6661 | 1.9463 | 0.0027 | 0.0705 | 272 | 0.0204 |
| | 750 | 0.3695 | 1.0792 | 3.2612 | 0.0044 | 0.1164 | 442 | 0.0333 |
| | 1000 | 0.5790 | 1.7854 | 6.4025 | 0.0063 | 0.1933 | 625 | 0.0522 |
| Off-Highway Trucks Composite | | 0.2241 | 0.6635 | 2.0158 | 0.0027 | 0.0715 | 260 | 0.0202 |
| Other Construction | 15 | 0.0118 | 0.0617 | 0.0737 | 0.0002 | 0.0028 | 10.1 | 0.0011 |
| | 25 | 0.0160 | 0.0544 | 0.1019 | 0.0002 | 0.0044 | 13.2 | 0.0014 |
| | 50 | 0.0842 | 0.2740 | 0.2707 | 0.0004 | 0.0228 | 28.0 | 0.0076 |
| | 120 | 0.1104 | 0.5320 | 0.7540 | 0.0009 | 0.0633 | 80.9 | 0.0100 |
| | 175 | 0.1008 | 0.5880 | 0.8599 | 0.0012 | 0.0467 | 107 | 0.0091 |
| | 500 | 0.1517 | 0.5426 | 1.6573 | 0.0025 | 0.0545 | 254 | 0.0137 |
| Other Construction Equipment Composite | | 0.0925 | 0.3847 | 0.8599 | 0.0013 | 0.0366 | 123 | 0.0083 |
| Other General Industrial | 15 | 0.0066 | 0.0391 | 0.0466 | 0.0001 | 0.0018 | 6.4 | 0.0006 |
| | 25 | 0.0185 | 0.0632 | 0.1170 | 0.0002 | 0.0045 | 15.3 | 0.0017 |
| | 50 | 0.1085 | 0.2856 | 0.2332 | 0.0003 | 0.0253 | 21.7 | 0.0098 |
| | 120 | 0.1274 | 0.4542 | 0.7277 | 0.0007 | 0.0703 | 62.0 | 0.0115 |
| | 175 | 0.1349 | 0.5757 | 1.0001 | 0.0011 | 0.0599 | 95.9 | 0.0122 |
| | 250 | 0.1235 | 0.3281 | 1.2983 | 0.0015 | 0.0417 | 136 | 0.0111 |
| | 500 | 0.2232 | 0.6772 | 2.2367 | 0.0026 | 0.0758 | 265 | 0.0201 |
| | 750 | 0.3707 | 1.1162 | 3.8016 | 0.0044 | 0.1273 | 437 | 0.0334 |
| | 1000 | 0.5621 | 1.8453 | 6.4018 | 0.0056 | 0.1947 | 560 | 0.0507 |
| Other General Industrial Equipment Composite | | 0.1635 | 0.5362 | 1.4520 | 0.0016 | 0.0632 | 152 | 0.0148 |
| Other Material Handling | 50 | 0.1506 | 0.3950 | 0.3243 | 0.0004 | 0.0352 | 30.3 | 0.0136 |
| | 120 | 0.1239 | 0.4423 | 0.7103 | 0.0007 | 0.0684 | 60.7 | 0.0112 |
| | 175 | 0.1703 | 0.7292 | 1.2706 | 0.0014 | 0.0759 | 122 | 0.0154 |
| | 250 | 0.1305 | 0.3496 | 1.3863 | 0.0016 | 0.0443 | 145 | 0.0118 |
| | 500 | 0.1590 | 0.4876 | 1.6124 | 0.0019 | 0.0545 | 192 | 0.0143 |
| | 9999 | 0.7467 | 2.4395 | 8.4619 | 0.0073 | 0.2565 | 741 | 0.0674 |
| Other Material Handling Equipment Composite | | 0.1566 | 0.5108 | 1.4125 | 0.0015 | 0.0613 | 141 | 0.0141 |
| Pavers | 25 | 0.0255 | 0.0811 | 0.1531 | 0.0002 | 0.0080 | 18.7 | 0.0023 |
| | 50 | 0.1451 | 0.3680 | 0.3038 | 0.0004 | 0.0327 | 28.0 | 0.0131 |
| | 120 | 0.1467 | 0.5107 | 0.8788 | 0.0008 | 0.0776 | 69.2 | 0.0132 |
| | 175 | 0.1864 | 0.7833 | 1.4495 | 0.0014 | 0.0819 | 128 | 0.0168 |
| | 250 | 0.2182 | 0.6365 | 2.0698 | 0.0022 | 0.0818 | 194 | 0.0197 |
| | 500 | 0.2383 | 0.9957 | 2.2418 | 0.0023 | 0.0883 | 233 | 0.0215 |
| Pavers Composite | | 0.1596 | 0.5445 | 0.8980 | 0.0009 | 0.0642 | 77.9 | 0.0144 |
| Paving Equipment | 25 | 0.0153 | 0.0520 | 0.0974 | 0.0002 | 0.0042 | 12.6 | 0.0014 |
| | 50 | 0.1239 | 0.3124 | 0.2591 | 0.0003 | 0.0279 | 23.9 | 0.0112 |
| | 120 | 0.1150 | 0.3997 | 0.6897 | 0.0006 | 0.0610 | 54.5 | 0.0104 |
| | 175 | 0.1455 | 0.6114 | 1.1384 | 0.0011 | 0.0640 | 101 | 0.0131 |
| | 250 | 0.1349 | 0.3946 | 1.2976 | 0.0014 | 0.0507 | 122 | 0.0122 |
| Paving Equipment Composite | | 0.1204 | 0.4365 | 0.8114 | 0.0008 | 0.0570 | 68.9 | 0.0109 |

Table 90
2012 SCAB Fleet Average Emission Factors (Diesel)

2012 Offroad EFs

| | |
|------------------|-----------|
| Air Basin | SC |
|------------------|-----------|

| Equipment | MaxHP | (lb/hr) ROG | (lb/hr) CO | (lb/hr) NOX | (lb/hr) SOX | (lb/hr) PM | (lb/hr) CO2 | (lb/hr) CH4 |
|-----------------------------------|--------------|------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|
| Plate Compactors | 15 | 0.0050 | 0.0263 | 0.0314 | 0.0001 | 0.0013 | 4.3 | 0.0005 |
| Plate Compactors Composite | | 0.0050 | 0.0263 | 0.0314 | 0.0001 | 0.0013 | 4.3 | 0.0005 |
| Pressure Washers | 15 | 0.0075 | 0.0334 | 0.0509 | 0.0001 | 0.0029 | 4.9 | 0.0007 |
| | 25 | 0.0112 | 0.0385 | 0.0662 | 0.0001 | 0.0039 | 7.1 | 0.0010 |
| | 50 | 0.0349 | 0.1074 | 0.1339 | 0.0002 | 0.0102 | 14.3 | 0.0032 |
| | 120 | 0.0332 | 0.1458 | 0.2385 | 0.0003 | 0.0172 | 24.1 | 0.0030 |
| Pressure Washers Composite | | 0.0173 | 0.0635 | 0.0921 | 0.0001 | 0.0063 | 9.4 | 0.0016 |
| Pumps | 15 | 0.0133 | 0.0508 | 0.0790 | 0.0001 | 0.0054 | 7.4 | 0.0012 |
| | 25 | 0.0386 | 0.1051 | 0.1803 | 0.0002 | 0.0117 | 19.5 | 0.0035 |
| | 50 | 0.1155 | 0.3229 | 0.3362 | 0.0004 | 0.0299 | 34.3 | 0.0104 |
| | 120 | 0.1250 | 0.5036 | 0.8226 | 0.0009 | 0.0669 | 77.9 | 0.0113 |
| | 175 | 0.1498 | 0.7431 | 1.3164 | 0.0016 | 0.0664 | 140 | 0.0135 |
| | 250 | 0.1357 | 0.4345 | 1.7375 | 0.0023 | 0.0501 | 201 | 0.0122 |
| | 500 | 0.2089 | 0.8032 | 2.6861 | 0.0034 | 0.0803 | 345 | 0.0188 |
| | 750 | 0.3557 | 1.3279 | 4.5700 | 0.0057 | 0.1350 | 571 | 0.0321 |
| 9999 | 1.1456 | 4.0641 | 14.2305 | 0.0136 | 0.4081 | 1,355 | 0.1034 | |
| Pumps Composite | | 0.0813 | 0.2983 | 0.4999 | 0.0006 | 0.0351 | 49.6 | 0.0073 |
| Rollers | 15 | 0.0074 | 0.0386 | 0.0461 | 0.0001 | 0.0018 | 6.3 | 0.0007 |
| | 25 | 0.0162 | 0.0549 | 0.1029 | 0.0002 | 0.0045 | 13.3 | 0.0015 |
| | 50 | 0.1105 | 0.2994 | 0.2677 | 0.0003 | 0.0263 | 26.0 | 0.0100 |
| | 120 | 0.1054 | 0.4098 | 0.6619 | 0.0007 | 0.0574 | 59.0 | 0.0095 |
| | 175 | 0.1320 | 0.6220 | 1.0725 | 0.0012 | 0.0591 | 108 | 0.0119 |
| | 250 | 0.1347 | 0.4083 | 1.4103 | 0.0017 | 0.0498 | 153 | 0.0122 |
| 500 | 0.1755 | 0.6752 | 1.8093 | 0.0022 | 0.0652 | 219 | 0.0158 | |
| Rollers Composite | | 0.1038 | 0.4107 | 0.6936 | 0.0008 | 0.0488 | 67.1 | 0.0094 |
| Rough Terrain Fork | 50 | 0.1315 | 0.3910 | 0.3455 | 0.0004 | 0.0330 | 33.9 | 0.0119 |
| | 120 | 0.1038 | 0.4364 | 0.6425 | 0.0007 | 0.0585 | 62.4 | 0.0094 |
| | 175 | 0.1444 | 0.7268 | 1.1204 | 0.0014 | 0.0652 | 125 | 0.0130 |
| | 250 | 0.1353 | 0.3896 | 1.4082 | 0.0019 | 0.0458 | 171 | 0.0122 |
| 500 | 0.1894 | 0.5985 | 1.8577 | 0.0025 | 0.0642 | 257 | 0.0171 | |
| Rough Terrain Forklifts Composite | | 0.1093 | 0.4680 | 0.6995 | 0.0008 | 0.0587 | 70.3 | 0.0099 |
| Rubber Tired Doze | 175 | 0.2209 | 0.8528 | 1.6304 | 0.0015 | 0.0945 | 129 | 0.0199 |
| | 250 | 0.2545 | 0.7124 | 2.1985 | 0.0021 | 0.0942 | 183 | 0.0230 |
| | 500 | 0.3345 | 1.5220 | 2.8822 | 0.0026 | 0.1210 | 265 | 0.0302 |
| | 750 | 0.5042 | 2.2809 | 4.4100 | 0.0040 | 0.1832 | 399 | 0.0455 |
| | 1000 | 0.7807 | 3.6654 | 7.7816 | 0.0060 | 0.2729 | 592 | 0.0704 |
| Rubber Tired Dozers Composite | | 0.3114 | 1.2491 | 2.6866 | 0.0025 | 0.1137 | 239 | 0.0281 |
| Rubber Tired Load | 25 | 0.0205 | 0.0697 | 0.1295 | 0.0002 | 0.0052 | 16.9 | 0.0018 |
| | 50 | 0.1315 | 0.3756 | 0.3242 | 0.0004 | 0.0319 | 31.1 | 0.0119 |
| | 120 | 0.1045 | 0.4187 | 0.6404 | 0.0007 | 0.0576 | 58.9 | 0.0094 |
| | 175 | 0.1312 | 0.6288 | 1.0135 | 0.0012 | 0.0583 | 106 | 0.0118 |
| | 250 | 0.1330 | 0.3838 | 1.3129 | 0.0017 | 0.0462 | 149 | 0.0120 |
| | 500 | 0.1961 | 0.6755 | 1.8555 | 0.0023 | 0.0677 | 237 | 0.0177 |
| | 750 | 0.4044 | 1.3812 | 3.9115 | 0.0049 | 0.1408 | 486 | 0.0365 |
| 1000 | 0.5480 | 1.9543 | 6.3337 | 0.0060 | 0.1909 | 594 | 0.0494 | |
| Rubber Tired Loaders Composite | | 0.1272 | 0.4855 | 1.0034 | 0.0012 | 0.0558 | 109 | 0.0115 |

Table 90
2012 SCAB Fleet Average Emission Factors (Diesel)

2012 Offroad EFs

| | |
|------------------|-----------|
| Air Basin | SC |
|------------------|-----------|

| Equipment | MaxHP | (lb/hr) ROG | (lb/hr) CO | (lb/hr) NOX | (lb/hr) SOX | (lb/hr) PM | (lb/hr) CO2 | (lb/hr) CH4 |
|-------------------------------|--------------|------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|
| Scrapers | 120 | 0.1990 | 0.7011 | 1.1749 | 0.0011 | 0.1054 | 93.9 | 0.0180 |
| | 175 | 0.2172 | 0.9158 | 1.6429 | 0.0017 | 0.0945 | 148 | 0.0196 |
| | 250 | 0.2367 | 0.6699 | 2.1849 | 0.0024 | 0.0859 | 209 | 0.0214 |
| | 500 | 0.3333 | 1.3000 | 3.0162 | 0.0032 | 0.1190 | 321 | 0.0301 |
| | 750 | 0.5779 | 2.2380 | 5.3231 | 0.0056 | 0.2075 | 555 | 0.0521 |
| Scrapers Composite | | 0.2916 | 1.0984 | 2.5680 | 0.0027 | 0.1087 | 262 | 0.0263 |
| Signal Boards | 15 | 0.0072 | 0.0377 | 0.0450 | 0.0001 | 0.0017 | 6.2 | 0.0006 |
| | 50 | 0.1270 | 0.3587 | 0.3564 | 0.0005 | 0.0324 | 36.2 | 0.0115 |
| | 120 | 0.1284 | 0.5269 | 0.8360 | 0.0009 | 0.0703 | 80.2 | 0.0116 |
| | 175 | 0.1661 | 0.8370 | 1.4268 | 0.0017 | 0.0750 | 155 | 0.0150 |
| | 250 | 0.1746 | 0.5516 | 2.1599 | 0.0029 | 0.0639 | 255 | 0.0158 |
| Signal Boards Composite | | 0.0203 | 0.0940 | 0.1470 | 0.0002 | 0.0083 | 16.7 | 0.0018 |
| Skid Steer Loaders | 25 | 0.0211 | 0.0635 | 0.1189 | 0.0002 | 0.0067 | 13.8 | 0.0019 |
| | 50 | 0.0596 | 0.2332 | 0.2402 | 0.0003 | 0.0180 | 25.5 | 0.0054 |
| | 120 | 0.0482 | 0.2769 | 0.3536 | 0.0005 | 0.0286 | 42.8 | 0.0043 |
| Skid Steer Loaders Composite | | 0.0534 | 0.2360 | 0.2686 | 0.0004 | 0.0207 | 30.3 | 0.0048 |
| Surfacing Equipme | 50 | 0.0513 | 0.1441 | 0.1411 | 0.0002 | 0.0128 | 14.1 | 0.0046 |
| | 120 | 0.1040 | 0.4251 | 0.6895 | 0.0007 | 0.0557 | 63.8 | 0.0094 |
| | 175 | 0.0950 | 0.4745 | 0.8195 | 0.0010 | 0.0422 | 85.8 | 0.0086 |
| | 250 | 0.1095 | 0.3526 | 1.1993 | 0.0015 | 0.0413 | 135 | 0.0099 |
| | 500 | 0.1631 | 0.6813 | 1.7819 | 0.0022 | 0.0622 | 221 | 0.0147 |
| | 750 | 0.2601 | 1.0660 | 2.8642 | 0.0035 | 0.0986 | 347 | 0.0235 |
| Surfacing Equipment Composite | | 0.1362 | 0.5467 | 1.3678 | 0.0017 | 0.0512 | 166 | 0.0123 |
| Sweepers/Scrubbe | 15 | 0.0124 | 0.0729 | 0.0870 | 0.0002 | 0.0034 | 11.9 | 0.0011 |
| | 25 | 0.0237 | 0.0808 | 0.1501 | 0.0002 | 0.0060 | 19.6 | 0.0021 |
| | 50 | 0.1195 | 0.3565 | 0.3179 | 0.0004 | 0.0302 | 31.6 | 0.0108 |
| | 120 | 0.1233 | 0.5204 | 0.7534 | 0.0009 | 0.0706 | 75.0 | 0.0111 |
| | 175 | 0.1575 | 0.8008 | 1.2212 | 0.0016 | 0.0717 | 139 | 0.0142 |
| | 250 | 0.1205 | 0.3447 | 1.3019 | 0.0018 | 0.0402 | 162 | 0.0109 |
| Sweepers/Scrubbers Composite | | 0.1278 | 0.5215 | 0.7403 | 0.0009 | 0.0576 | 78.5 | 0.0115 |
| Tractors/Loaders/B | 25 | 0.0199 | 0.0662 | 0.1250 | 0.0002 | 0.0061 | 15.9 | 0.0018 |
| | 50 | 0.1006 | 0.3305 | 0.3030 | 0.0004 | 0.0267 | 30.3 | 0.0091 |
| | 120 | 0.0760 | 0.3557 | 0.4910 | 0.0006 | 0.0432 | 51.7 | 0.0069 |
| | 175 | 0.1058 | 0.5866 | 0.8294 | 0.0011 | 0.0478 | 101 | 0.0095 |
| | 250 | 0.1264 | 0.3755 | 1.2813 | 0.0019 | 0.0415 | 172 | 0.0114 |
| | 500 | 0.2386 | 0.7714 | 2.2621 | 0.0039 | 0.0784 | 345 | 0.0215 |
| | 750 | 0.3611 | 1.1563 | 3.5105 | 0.0058 | 0.1199 | 517 | 0.0326 |
| Tractors/Loaders/Backhoes Com | | 0.0862 | 0.3824 | 0.5816 | 0.0008 | 0.0435 | 66.8 | 0.0078 |
| Trenchers | 15 | 0.0099 | 0.0517 | 0.0617 | 0.0001 | 0.0024 | 8.5 | 0.0009 |
| | 25 | 0.0398 | 0.1355 | 0.2519 | 0.0004 | 0.0101 | 32.9 | 0.0036 |
| | 50 | 0.1656 | 0.4176 | 0.3536 | 0.0004 | 0.0374 | 32.9 | 0.0149 |
| | 120 | 0.1354 | 0.4732 | 0.8257 | 0.0008 | 0.0709 | 64.9 | 0.0122 |
| | 175 | 0.2050 | 0.8694 | 1.6306 | 0.0016 | 0.0901 | 144 | 0.0185 |
| | 250 | 0.2483 | 0.7418 | 2.3854 | 0.0025 | 0.0951 | 223 | 0.0224 |
| | 500 | 0.3135 | 1.4011 | 3.0220 | 0.0031 | 0.1190 | 311 | 0.0283 |
| | 750 | 0.5949 | 2.6307 | 5.8034 | 0.0059 | 0.2259 | 587 | 0.0537 |
| Trenchers Composite | | 0.1507 | 0.4749 | 0.6995 | 0.0007 | 0.0582 | 58.7 | 0.0136 |

Table 90
2012 SCAB Fleet Average Emission Factors (Diesel)

2012 Offroad EFs

| | |
|-----------|----|
| Air Basin | SC |
|-----------|----|

| Equipment | MaxHP | (lb/hr) ROG | (lb/hr) CO | (lb/hr) NOX | (lb/hr) SOX | (lb/hr) PM | (lb/hr) CO2 | (lb/hr) CH4 |
|-------------------|-------|----------------|---------------|----------------|----------------|---------------|----------------|----------------|
| Welders | 15 | 0.0111 | 0.0425 | 0.0660 | 0.0001 | 0.0045 | 6.2 | 0.0010 |
| | 25 | 0.0224 | 0.0609 | 0.1044 | 0.0001 | 0.0068 | 11.3 | 0.0020 |
| | 50 | 0.1071 | 0.2854 | 0.2637 | 0.0003 | 0.0260 | 26.0 | 0.0097 |
| | 120 | 0.0708 | 0.2687 | 0.4376 | 0.0005 | 0.0387 | 39.5 | 0.0064 |
| | 175 | 0.1183 | 0.5475 | 0.9688 | 0.0011 | 0.0531 | 98.2 | 0.0107 |
| | 250 | 0.0909 | 0.2704 | 1.0791 | 0.0013 | 0.0329 | 119 | 0.0082 |
| | 500 | 0.1154 | 0.4072 | 1.3538 | 0.0016 | 0.0431 | 168 | 0.0104 |
| Welders Composite | | 0.0703 | 0.2150 | 0.2702 | 0.0003 | 0.0243 | 25.6 | 0.0063 |

Source: File offroadEF07_25.xls, downloaded from <http://www.aqmd.gov/ceqa/handbook/offroad/offroad.html>

**Table 91
On-Road Motor Vehicle Emission Factors**

| Vehicle Category | Emission Factors (lb/mi) | | | | | | | |
|------------------|--------------------------|----------|----------|----------|----------|----------|-----------------|-----------------|
| | VOC | CO | NOx | SOx | PM10 | PM2.5 | CO ₂ | CH ₄ |
| Light Duty | 7.96E-04 | 7.65E-03 | 7.76E-04 | 1.07E-05 | 8.98E-05 | 5.75E-05 | 1.10E+00 | 7.17E-05 |
| Medium Duty | 2.24E-03 | 1.55E-02 | 1.73E-02 | 2.67E-05 | 6.50E-04 | 5.50E-04 | 2.77E+00 | 1.07E-04 |
| Heavy Duty | 2.53E-03 | 1.02E-02 | 3.09E-02 | 4.04E-05 | 1.50E-03 | 1.29E-03 | 4.22E+00 | 1.17E-04 |

Source: Files onroadEF07_26.xls and onroadHHDT07_26.xls, downloaded from <http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html>

Table 92
Fugitive Dust Emission Factors

Soil Dropping During Excavation

Emission Factor [lb/cu. yd] = 0.0011 x (mean wind speed [mi/hr] / 5)^{1.3} / (moisture [%] / 2)^{1.4} x (number drops per ton) x (density [ton/cu. yd])
Reference: AP-42, Equation (1), Section 13.2.4, November 2006

| Parameter | Value | Basis |
|-----------------|-------|--|
| Mean Wind Speed | 12 | SCAQMD CEQA Air Quality Handbook (1993), Table 9-9-G, default |
| Moisture | 15 | SCAQMD CEQA Air Quality Handbook (1993), Table 9-9-G-1, moist soil |
| Number Drops | 4 | Assumption |
| Soil Density | 1.215 | Table 2.46, Handbook of Solid Waste Management |

PM10 Emission Factor (Uncontrolled) 9.94E-04 lb/cu. yd
Reduction from Watering Twice/Day^b 0%
Controlled PM10 Emission Factor 9.94E-04 lb/cu. yd
Controlled PM2.5 Emission Factor^a 2.07E-04 lb/cu. yd

^a PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10
PM2.5 Fraction of PM10 in Construction Dust = 0.208 from Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

^b Watering is assumed to be used to maintain moist conditions, so no further reduction from watering is included.

Emissions [pounds per day] = Controlled emission factor [pounds per cubic yard] x Volume soil handled [cubic yards per day]

Storage Pile Wind Erosion

Emission Factor [lb/day-acre] = 0.85 x (silt content [%] / 1.5) x (365 / 235) x (percentage of time unobstructed wind exceeds 12 mph / 15)
Reference: SCAQMD CEQA Air Quality Handbook (1993), Table 9-9-E

| Parameter | Value | Basis |
|-------------------------|-------|--|
| Silt Content | 7.5 | SCAQMD CEQA Handbook, (1993) Table A9-9-E-1 for overburden |
| Pct. time wind > 12 mph | 100 | Worst-case assumption |

PM10 Emission Factor (Uncontrolled) 44.0 lb/day-acre
Reduction from Watering Twice/Day 61%
Controlled PM10 Emission Factor 17.2 lb/day-acre
Controlled PM2.5 Emission Factor^a 3.6 lb/day-acre

^a PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10
PM2.5 Fraction of PM10 in Construction Dust = 0.208 from Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

Emissions [pounds per day] = Controlled emission factor [pounds per acre-day] x Storage pile surface area [acres]

Bulldozing, Scraping and Grading

Emission Factor [lb/hr] = 0.75 x (silt content [%])^{1.5} / (moisture)^{1.4}
Reference: AP-42, Table 11.9-1, July 1998

| Parameter | Value | Basis |
|--------------|-------|--|
| Silt Content | 7.5 | SCAQMD CEQA Handbook, (1993) Table A9-9-E-1 for overburden |
| Moisture | 15 | SCAQMD CEQA Air Quality Handbook (1993), Table 9-9-G-1, moist soil |

PM10 Emission Factor (Uncontrolled) 0.348 lb/hr
Reduction from Watering Twice/Day^b 0%
Controlled PM10 Emission Factor 0.348 lb/hr
Controlled PM2.5 Emission Factor^a 0.072 lb/hr

^a PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10
PM2.5 Fraction of PM10 in Construction Dust = 0.208 from Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

^b Watering is assumed to be used to maintain moist conditions, so no further reduction from watering is included.