

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 12-03-11**

Date: 11/28/2011 Technician: Carl Jones

**Prevailing Wind**

| Direction | Time     | Unit 2-Upwind Reading | Unit 1-Downwind Reading | Action Level | Stop Work |
|-----------|----------|-----------------------|-------------------------|--------------|-----------|
| NW        | 6:00 AM  | 30 min Avg 0.025      | 30 min Avg 0.001        | 0.060        | 0.070     |
| NW        | 6:30 AM  | 30 min Avg 0.018      | 30 min Avg 0.015        | 0.053        | 0.063     |
| WNW       | 7:00 AM  | 30 min Avg 0.016      | 30 min Avg 0.008        | 0.051        | 0.061     |
| WNW       | 7:30 AM  | 30 min Avg 0.013      | 30 min Avg 0.018        | 0.048        | 0.058     |
| NW        | 8:00 AM  | 30 min Avg 0.009      | 30 min Avg 0.008        | 0.044        | 0.054     |
| NW        | 8:30 AM  | 30 min Avg 0          | 30 min Avg 0.01         | 0.035        | 0.045     |
| NW        | 9:00 AM  | 30 min Avg 0          | 30 min Avg 0.013        | 0.035        | 0.045     |
| WNW       | 9:30 AM  | 30 min Avg 0.013      | 30 min Avg 0.022        | 0.048        | 0.058     |
| NW        | 10:00 AM | 30 min Avg 0.002      | 30 min Avg 0.016        | 0.037        | 0.047     |
| NW        | 10:30 AM | 30 min Avg 0.004      | 30 min Avg 0.006        | 0.039        | 0.049     |
| N         | 11:00 AM | 30 min Avg 0.015      | 30 min Avg 0.015        | 0.050        | 0.060     |
| N         | 11:30 AM | 30 min Avg 0.006      | 30 min Avg 0            | 0.041        | 0.051     |
| N         | 12:00 PM | 30 min Avg 0.007      | 30 min Avg 0.017        | 0.042        | 0.052     |
| N         | 12:30 PM | 30 min Avg 0.009      | 30 min Avg 0.005        | 0.044        | 0.054     |
| N         | 1:00 PM  | 30 min Avg 0          | 30 min Avg 0.001        | 0.035        | 0.045     |
| WNW       | 1:30 PM  | 30 min Avg 0.006      | 30 min Avg 0            | 0.041        | 0.051     |
| WNW       | 2:00 PM  | 30 min Avg 0          | 30 min Avg 0.004        | 0.035        | 0.045     |
| W         | 2:30 PM  | 30 min Avg 0.002      | 30 min Avg 0            | 0.037        | 0.047     |
| ENE       | 3:00 PM  | 30 min Avg 0.01       | 30 min Avg 0.013        | 0.045        | 0.055     |
| E         | 3:30 PM  | 30 min Avg 0.009      | 30 min Avg 0.012        | 0.044        | 0.054     |
| ENE       | 4:00 PM  | 30 min Avg 0.004      | 30 min Avg 0.004        | 0.039        | 0.049     |
| E         | 4:30 PM  | 30 min Avg 0.002      | 30 min Avg 0            | 0.037        | 0.047     |
| E         | 5:00 PM  | 30 min Avg 0.003      | 30 min Avg 0.001        | 0.038        | 0.048     |
| ESE       | 5:30 PM  | 30 min Avg 0.007      | 30 min Avg 0.016        | 0.042        | 0.052     |

E-BAM locations (Upwind) NW- west of building 14 (Downwind) SW- south of building 3

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*Note time/duration of work stoppage:*

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**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 12-03-11**

Date: 11/29/2011 Technician: Carl Jones

**Prevailing Wind**

| Direction | Time     | Unit 2-Upwind Reading | Unit 1-Downwind Reading | Action Level | Stop Work |       |       |
|-----------|----------|-----------------------|-------------------------|--------------|-----------|-------|-------|
| S         | 6:00 AM  | 30 min Avg            | 0.017                   | 30 min Avg   | 0.007     | 0.052 | 0.062 |
| S         | 6:30 AM  | 30 min Avg            | 0.004                   | 30 min Avg   | 0.02      | 0.039 | 0.049 |
| S         | 7:00 AM  | 30 min Avg            | 0.016                   | 30 min Avg   | 0.017     | 0.051 | 0.061 |
| S         | 7:30 AM  | 30 min Avg            | 0.021                   | 30 min Avg   | 0.024     | 0.056 | 0.066 |
| NNW       | 8:00 AM  | 30 min Avg            | 0.024                   | 30 min Avg   | 0.001     | 0.059 | 0.069 |
| NE        | 8:30 AM  | 30 min Avg            | 0.014                   | 30 min Avg   | 0.008     | 0.049 | 0.059 |
| NE        | 9:00 AM  | 30 min Avg            | 0.002                   | 30 min Avg   | 0.01      | 0.037 | 0.047 |
| NE        | 9:30 AM  | 30 min Avg            | 0.002                   | 30 min Avg   | 0.019     | 0.037 | 0.047 |
| NE        | 10:00 AM | 30 min Avg            | 0.012                   | 30 min Avg   | 0.012     | 0.047 | 0.057 |
| NE        | 10:30 AM | 30 min Avg            | 0.011                   | 30 min Avg   | 0.027     | 0.046 | 0.056 |
| NE        | 11:00 AM | 30 min Avg            | 0.009                   | 30 min Avg   | 0.015     | 0.044 | 0.054 |
| NE        | 11:30 AM | 30 min Avg            | 0.017                   | 30 min Avg   | 0.01      | 0.052 | 0.062 |
| NE        | 12:00 PM | 30 min Avg            | 0.01                    | 30 min Avg   | 0.003     | 0.045 | 0.055 |
| ENE       | 12:30 PM | 30 min Avg            | 0                       | 30 min Avg   | 0.007     | 0.035 | 0.045 |
| ENE       | 1:00 PM  | 30 min Avg            | 0.013                   | 30 min Avg   | 0.01      | 0.048 | 0.058 |
| ENE       | 1:30 PM  | 30 min Avg            | 0.004                   | 30 min Avg   | 0.01      | 0.039 | 0.049 |
| ENE       | 2:00 PM  | 30 min Avg            | 0.007                   | 30 min Avg   | 0.01      | 0.042 | 0.052 |
| ENE       | 2:30 PM  | 30 min Avg            | 0.007                   | 30 min Avg   | 0.007     | 0.042 | 0.052 |
| ENE       | 3:00 PM  | 30 min Avg            | 0.013                   | 30 min Avg   | 0.01      | 0.048 | 0.058 |
| ENE       | 3:30 PM  | 30 min Avg            | 0.014                   | 30 min Avg   | 0.012     | 0.049 | 0.059 |
| ENE       | 4:00 PM  | 30 min Avg            | 0.009                   | 30 min Avg   | 0.007     | 0.044 | 0.054 |
| ENE       | 4:30 PM  | 30 min Avg            | 0                       | 30 min Avg   | 0.011     | 0.035 | 0.045 |
| ENE       | 5:00 PM  | 30 min Avg            | 0.014                   | 30 min Avg   | 0.001     | 0.049 | 0.059 |
| ENE       | 5:30 PM  | 30 min Avg            | 0.01                    | 30 min Avg   | 0.012     | 0.045 | 0.055 |

E-BAM locations (Upwind) SW- south of building 3 (Downwind) NW- west of building 14 [8:05 (Upwind) NE corner (Downwind) SW- south of building 3)

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

Note time/duration of work stoppage: Abatement, demo, and haz. waste removal was shut down between 3:40 to 4:05 due to high northerly winds.

**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 12-03-11**

Date: 11/30/2011 Technician: Carl Jones

| Prevailing Wind Direction | Time     | Unit 2-Upwind Reading | Unit 1-Downwind Reading | Action Level | Stop Work |       |       |
|---------------------------|----------|-----------------------|-------------------------|--------------|-----------|-------|-------|
| N                         | 6:00 AM  | 30 min Avg            | 0.022                   | 30 min Avg   | 0.013     | 0.057 | 0.067 |
| N                         | 6:30 AM  | 30 min Avg            | 0.014                   | 30 min Avg   | 0.016     | 0.049 | 0.059 |
| N                         | 7:00 AM  | 30 min Avg            | 0.006                   | 30 min Avg   | 0.015     | 0.041 | 0.051 |
| N                         | 7:30 AM  | 30 min Avg            | 0.013                   | 30 min Avg   | 0.013     | 0.048 | 0.058 |
| N                         | 8:00 AM  | 30 min Avg            | 0.007                   | 30 min Avg   | 0.011     | 0.042 | 0.052 |
| N                         | 8:30 AM  | 30 min Avg            | 0.001                   | 30 min Avg   | 0.009     | 0.036 | 0.046 |
| NNE                       | 9:00 AM  | 30 min Avg            | 0.008                   | 30 min Avg   | 0.018     | 0.043 | 0.053 |
| NNE                       | 9:30 AM  | 30 min Avg            | 0.004                   | 30 min Avg   | 0.01      | 0.039 | 0.049 |
| NNE                       | 10:00 AM | 30 min Avg            | 0.013                   | 30 min Avg   | 0.013     | 0.048 | 0.058 |
| NE                        | 10:30 AM | 30 min Avg            | 0.009                   | 30 min Avg   | 0.013     | 0.044 | 0.054 |
| NE                        | 11:00 AM | 30 min Avg            | 0.01                    | 30 min Avg   | 0.016     | 0.045 | 0.055 |
| NE                        | 11:30 AM | 30 min Avg            | 0.008                   | 30 min Avg   | 0.005     | 0.043 | 0.053 |
| NE                        | 12:00 PM | 30 min Avg            | 0.003                   | 30 min Avg   | 0.011     | 0.038 | 0.048 |
| NE                        | 12:30 PM | 30 min Avg            | 0                       | 30 min Avg   | 0         | 0.035 | 0.045 |
| NE                        | 1:00 PM  | 30 min Avg            | 0.007                   | 30 min Avg   | 0.005     | 0.042 | 0.052 |
| NE                        | 1:30 PM  | 30 min Avg            | 0.009                   | 30 min Avg   | 0.002     | 0.044 | 0.054 |
| E                         | 2:00 PM  | 30 min Avg            | 0.011                   | 30 min Avg   | 0.013     | 0.046 | 0.056 |
| E                         | 2:30 PM  | 30 min Avg            | 0.007                   | 30 min Avg   | 0.017     | 0.042 | 0.052 |
| E                         | 3:00 PM  | 30 min Avg            | 0.013                   | 30 min Avg   | 0         | 0.048 | 0.058 |
| ESE                       | 3:30 PM  | 30 min Avg            | 0.012                   | 30 min Avg   | 0.019     | 0.047 | 0.057 |
| ESE                       | 4:00 PM  | 30 min Avg            | 0.008                   | 30 min Avg   | 0.003     | 0.043 | 0.053 |
| ESE                       | 4:30 PM  | 30 min Avg            | 0.002                   | 30 min Avg   | 0.011     | 0.037 | 0.047 |
| ESE                       | 5:00 PM  | 30 min Avg            | 0.014                   | 30 min Avg   | 0.011     | 0.049 | 0.059 |
| ESE                       | 5:30 PM  | 30 min Avg            | 0.014                   | 30 min Avg   | 0.015     | 0.049 | 0.059 |

E-BAM locations (Upwind) NE corner (Downwind) SW- south of building 3

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*Note time/duration of work stoppage:*

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**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 12-03-11**

Date: 12/1/2011 Technician: Carl Jones

**Prevailing Wind**

| Direction | Time     | Unit 2-Upwind Reading | Unit 1-Downwind Reading | Action Level | Stop Work |       |       |
|-----------|----------|-----------------------|-------------------------|--------------|-----------|-------|-------|
| SSE       | 6:00 AM  | 30 min Avg            | 0                       | 30 min Avg   | 0         | 0.035 | 0.045 |
| SSE       | 6:30 AM  | 30 min Avg            | 0.01                    | 30 min Avg   | 0.026     | 0.045 | 0.055 |
| SSE       | 7:00 AM  | 30 min Avg            | 0.076                   | 30 min Avg   | 0.053     | 0.111 | 0.121 |
| SSE       | 7:30 AM  | 30 min Avg            | 0.032                   | 30 min Avg   | 0.019     | 0.067 | 0.077 |
| SSE       | 8:00 AM  | 30 min Avg            | 0.038                   | 30 min Avg   | 0.008     | 0.073 | 0.083 |
| S         | 8:30 AM  | 30 min Avg            | 0                       | 30 min Avg   | 0.018     | 0.035 | 0.045 |
| S         | 9:00 AM  | 30 min Avg            | 0                       | 30 min Avg   | 0.009     | 0.035 | 0.045 |
| SSE       | 9:30 AM  | 30 min Avg            | 0.002                   | 30 min Avg   | 0.015     | 0.037 | 0.047 |
| SSE       | 10:00 AM | 30 min Avg            | 0                       | 30 min Avg   | 0.008     | 0.035 | 0.045 |
| SSE       | 10:30 AM | 30 min Avg            | 0                       | 30 min Avg   | 0.026     | 0.035 | 0.045 |
| SSE       | 11:00 AM | 30 min Avg            | 0.011                   | 30 min Avg   | 0.009     | 0.046 | 0.056 |
| SSE       | 11:30 AM | 30 min Avg            | 0.002                   | 30 min Avg   | 0.012     | 0.037 | 0.047 |
| SSE       | 12:00 PM | 30 min Avg            | 0.006                   | 30 min Avg   | 0.015     | 0.041 | 0.051 |
| SSE       | 12:30 PM | 30 min Avg            | 0                       | 30 min Avg   | 0.013     | 0.035 | 0.045 |
| SSE       | 1:00 PM  | 30 min Avg            | 0                       | 30 min Avg   | 0.004     | 0.035 | 0.045 |
| SSE       | 1:30 PM  | 30 min Avg            | 0.005                   | 30 min Avg   | 0.01      | 0.040 | 0.050 |
| SSE       | 2:00 PM  | 30 min Avg            | 0.009                   | 30 min Avg   | 0.012     | 0.044 | 0.054 |
| SSE       | 2:30 PM  | 30 min Avg            | 0.009                   | 30 min Avg   | 0.014     | 0.044 | 0.054 |
| SSE       | 3:00 PM  | 30 min Avg            | 0                       | 30 min Avg   | 0.013     | 0.035 | 0.045 |
| SSE       | 3:30 PM  | 30 min Avg            | 0.008                   | 30 min Avg   | 0.016     | 0.043 | 0.053 |
| SSE       | 4:00 PM  | 30 min Avg            | 0.003                   | 30 min Avg   | 0.005     | 0.038 | 0.048 |
| SSE       | 4:30 PM  | 30 min Avg            | 0.003                   | 30 min Avg   | 0.015     | 0.038 | 0.048 |
| SSE       | 5:00 PM  | 30 min Avg            | 0.01                    | 30 min Avg   | 0.003     | 0.045 | 0.055 |
| SSE       | 5:30 PM  | 30 min Avg            | 0.002                   | 30 min Avg   | 0.019     | 0.037 | 0.047 |

E-BAM locations (Upwind) S- east of building 46 (Downwind) NW- west of building 14

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*Note time/duration of work stoppage:*

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**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 12-03-11**

Date: 12/2/2011 Technician: Carl Jones

**Prevailing Wind**

| Direction | Time     | Unit 2-Upwind Reading | Unit 1-Downwind Reading | Action Level | Stop Work |       |       |
|-----------|----------|-----------------------|-------------------------|--------------|-----------|-------|-------|
| ESE       | 6:00 AM  | 30 min Avg            | 0                       | 30 min Avg   | 0         | 0.035 | 0.045 |
| ESE       | 6:30 AM  | 30 min Avg            | 0.02                    | 30 min Avg   | 0.004     | 0.055 | 0.065 |
| ESE       | 7:00 AM  | 30 min Avg            | 0.01                    | 30 min Avg   | 0.031     | 0.045 | 0.055 |
| ESE       | 7:30 AM  | 30 min Avg            | 0.047                   | 30 min Avg   | 0.02      | 0.082 | 0.092 |
| ESE       | 8:00 AM  | 30 min Avg            | 0.033                   | 30 min Avg   | 0.006     | 0.068 | 0.078 |
| ESE       | 8:30 AM  | 30 min Avg            | 0                       | 30 min Avg   | 0         | 0.035 | 0.045 |
| SE        | 9:00 AM  | 30 min Avg            | 0                       | 30 min Avg   | 0.008     | 0.035 | 0.045 |
| SE        | 9:30 AM  | 30 min Avg            | 0.026                   | 30 min Avg   | 0.012     | 0.061 | 0.071 |
| S         | 10:00 AM | 30 min Avg            | 0                       | 30 min Avg   | 0.014     | 0.035 | 0.045 |
| S         | 10:30 AM | 30 min Avg            | 0.005                   | 30 min Avg   | 0.001     | 0.040 | 0.050 |
| SE        | 11:00 AM | 30 min Avg            | 0                       | 30 min Avg   | 0.002     | 0.035 | 0.045 |
| SE        | 11:30 AM | 30 min Avg            | 0.006                   | 30 min Avg   | 0.007     | 0.041 | 0.051 |
| SSE       | 12:00 PM | 30 min Avg            | 0.071                   | 30 min Avg   | 0.039     | 0.106 | 0.116 |
| SSE       | 12:30 PM | 30 min Avg            | 0.056                   | 30 min Avg   | 0.038     | 0.091 | 0.101 |
| SE        | 1:00 PM  | 30 min Avg            | 0.04                    | 30 min Avg   | 0.01      | 0.075 | 0.085 |
| SE        | 1:30 PM  | 30 min Avg            | 0.037                   | 30 min Avg   | 0.051     | 0.072 | 0.082 |
| SE        | 2:00 PM  | 30 min Avg            | 0                       | 30 min Avg   | 0.01      | 0.035 | 0.045 |
| ESE       | 2:30 PM  | 30 min Avg            | 0.005                   | 30 min Avg   | 0.013     | 0.040 | 0.050 |
| SE        | 3:00 PM  | 30 min Avg            | 0                       | 30 min Avg   | 0         | 0.035 | 0.045 |
| SE        | 3:30 PM  | 30 min Avg            | 0                       | 30 min Avg   | 0.004     | 0.035 | 0.045 |
| ESE       | 4:00 PM  | 30 min Avg            | 0.004                   | 30 min Avg   | 0.01      | 0.039 | 0.049 |
| ESE       | 4:30 PM  | 30 min Avg            | 0.012                   | 30 min Avg   | 0.008     | 0.047 | 0.057 |
| ESE       | 5:00 PM  | 30 min Avg            | 0.01                    | 30 min Avg   | 0.014     | 0.045 | 0.055 |
| ESE       | 5:30 PM  | 30 min Avg            | 0.026                   | 30 min Avg   | 0.015     | 0.061 | 0.071 |

E-BAM locations (Upwind) S- east of building 46 (Downwind) NW- west of building 14

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*Note time/duration of work stoppage:*

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**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 12-03-11**

Date: 12/3/2011 Technician: Carl Jones

**Prevailing Wind**

| Direction | Time     | Unit 2-Upwind Reading | Unit 1-Downwind Reading | Action Level | Stop Work |       |       |
|-----------|----------|-----------------------|-------------------------|--------------|-----------|-------|-------|
| SSE       | 6:00 AM  | 30 min Avg            | 0                       | 30 min Avg   | 0         | 0.035 | 0.045 |
| SSE       | 6:30 AM  | 30 min Avg            | 0.045                   | 30 min Avg   | 0.02      | 0.080 | 0.090 |
| SSE       | 7:00 AM  | 30 min Avg            | 0.06                    | 30 min Avg   | 0.066     | 0.095 | 0.105 |
| SSE       | 7:30 AM  | 30 min Avg            | 0.001                   | 30 min Avg   | 0.01      | 0.036 | 0.046 |
| SSE       | 8:00 AM  | 30 min Avg            | 0.005                   | 30 min Avg   | 0.003     | 0.040 | 0.050 |
| SSE       | 8:30 AM  | 30 min Avg            | 0.008                   | 30 min Avg   | 0.017     | 0.043 | 0.053 |
| SSE       | 9:00 AM  | 30 min Avg            | 0.006                   | 30 min Avg   | 0.01      | 0.041 | 0.051 |
| SSE       | 9:30 AM  | 30 min Avg            | 0.014                   | 30 min Avg   | 0.011     | 0.049 | 0.059 |
| SSE       | 10:00 AM | 30 min Avg            | 0.045                   | 30 min Avg   | 0         | 0.080 | 0.090 |
| SSE       | 10:30 AM | 30 min Avg            | 0                       | 30 min Avg   | 0.018     | 0.035 | 0.045 |
| SSE       | 11:00 AM | 30 min Avg            | 0                       | 30 min Avg   | 0         | 0.035 | 0.045 |
| SSE       | 11:30 AM | 30 min Avg            | 0.014                   | 30 min Avg   | 0.019     | 0.049 | 0.059 |
| SSE       | 12:00 PM | 30 min Avg            | 0.017                   | 30 min Avg   | 0.011     | 0.052 | 0.062 |
| SSE       | 12:30 PM | 30 min Avg            | 0.004                   | 30 min Avg   | 0.024     | 0.039 | 0.049 |
|           | 1:00 PM  | 30 min Avg            |                         | 30 min Avg   |           |       |       |
|           | 1:30 PM  | 30 min Avg            |                         | 30 min Avg   |           |       |       |
|           | 2:00 PM  | 30 min Avg            |                         | 30 min Avg   |           |       |       |
|           | 2:30 PM  | 30 min Avg            |                         | 30 min Avg   |           |       |       |
|           | 3:00 PM  | 30 min Avg            |                         | 30 min Avg   |           |       |       |
|           | 3:30 PM  | 30 min Avg            |                         | 30 min Avg   |           |       |       |
|           | 4:00 PM  | 30 min Avg            |                         | 30 min Avg   |           |       |       |
|           | 4:30 PM  | 30 min Avg            |                         | 30 min Avg   |           |       |       |
|           | 5:00 PM  | 30 min Avg            |                         | 30 min Avg   |           |       |       |
|           | 5:30 PM  | 30 min Avg            |                         | 30 min Avg   |           |       |       |

E-BAM locations (Upwind) S- east of building 46 (Downwind) NW- west of building 14

**Action Levels**

Action level = upwind concentration + 0.035 mg/m<sup>3</sup>

Stop Work Level = upwind concentration + 0.045 mg/m<sup>3</sup>

*Note time/duration of work stoppage: All work ended at 12:00 for the weekend.*

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**Notes:**

All readings in mg/m<sup>3</sup>

Blue text readings are pre-work levels that were collected during the E-Bam instrument warm-up period and are not considered accurate.