

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 01-29-12**

Date: 1/23/2012 Technician: Carl Jones

**Prevailing Wind**

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
NNE	6:00 AM	30 min Avg	0	0.035	0.045
NNE	6:30 AM	30 min Avg	0.013	0.048	0.058
NNE	7:00 AM	30 min Avg	0.006	0.041	0.051
NNE	7:30 AM	30 min Avg	0.018	0.053	0.063
NNE	8:00 AM	30 min Avg	0.011	0.046	0.056
NNE	8:30 AM	30 min Avg	0.053	0.088	0.098
NE	9:00 AM	30 min Avg	0.003	0.038	0.048
NE	9:30 AM	30 min Avg	0.017	0.052	0.062
NE	10:00 AM	30 min Avg	0.013	0.048	0.058
NE	10:30 AM	30 min Avg	0.025	0.060	0.070
NE	11:00 AM	30 min Avg	0.009	0.044	0.054
NE	11:30 AM	30 min Avg	0.021	0.056	0.066
NE	12:00 PM	30 min Avg	0.014	0.049	0.059
NE	12:30 PM	30 min Avg	0.009	0.044	0.054
NE	1:00 PM	30 min Avg	0.017	0.052	0.062
NE	1:30 PM	30 min Avg	0.023	0.058	0.068
ENE	2:00 PM	30 min Avg	0.014	0.049	0.059
ENE	2:30 PM	30 min Avg	0.018	0.053	0.063
ENE	3:00 PM	30 min Avg	0.009	0.044	0.054
ENE	3:30 PM	30 min Avg	0.021	0.056	0.066
ENE	4:00 PM	30 min Avg	0.018	0.053	0.063
ENE	4:30 PM	30 min Avg	0.016	0.051	0.061
ENE	5:00 PM	30 min Avg	0.028	0.063	0.073
ENE	5:30 PM	30 min Avg	0.016	0.051	0.061

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 01-29-12**

Date: 1/24/2012 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	0.015	30 min Avg	0.026	0.050	0.060
ESE	7:00 AM	30 min Avg	0.026	30 min Avg	0.02	0.061	0.071
ESE	7:30 AM	30 min Avg	0.014	30 min Avg	0.021	0.049	0.059
ESE	8:00 AM	30 min Avg	0.02	30 min Avg	0.017	0.055	0.065
ESE	8:30 AM	30 min Avg	0.006	30 min Avg	0.012	0.041	0.051
ESE	9:00 AM	30 min Avg	0.015	30 min Avg	0	0.050	0.060
ESE	9:30 AM	30 min Avg	0.017	30 min Avg	0	0.052	0.062
SE	10:00 AM	30 min Avg	0.011	30 min Avg	0.014	0.046	0.056
SE	10:30 AM	30 min Avg	0.01	30 min Avg	0.02	0.045	0.055
SE	11:00 AM	30 min Avg	0.006	30 min Avg	0.005	0.041	0.051
SE	11:30 AM	30 min Avg	0.005	30 min Avg	0.021	0.040	0.050
SE	12:00 PM	30 min Avg	0.004	30 min Avg	0	0.039	0.049
SE	12:30 PM	30 min Avg	0	30 min Avg	0	0.035	0.045
SE	1:00 PM	30 min Avg	0.029	30 min Avg	0.011	0.064	0.074
SE	1:30 PM	30 min Avg	0	30 min Avg	0.01	0.035	0.045
SE	2:00 PM	30 min Avg	0.014	30 min Avg	0.01	0.049	0.059
SE	2:30 PM	30 min Avg	0.004	30 min Avg	0.009	0.039	0.049
SE	3:00 PM	30 min Avg	0.012	30 min Avg	0.006	0.047	0.057
SE	3:30 PM	30 min Avg	0.035	30 min Avg	0.022	0.070	0.080
SE	4:00 PM	30 min Avg	0	30 min Avg	0	0.035	0.045
SE	4:30 PM	30 min Avg	0.001	30 min Avg	0.003	0.036	0.046
SE	5:00 PM	30 min Avg	0.009	30 min Avg	0.017	0.044	0.054
SE	5:30 PM	30 min Avg	0.011	30 min Avg	0.008	0.046	0.056

E-BAM locations (Upwind) SW- south of building 3 (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: The 9:00 and 9:30 downwind readings were interrupted by a generator power failure. The only activities happening at that time were dust suppression, the loading of steel into trucks and constructing the mast climber at the top of the stack.

**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 01-29-12**

Date: 1/25/2012 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	0.035	0.045
S	6:30 AM	30 min Avg	0.009	0.044	0.054
S	7:00 AM	30 min Avg	0.016	0.051	0.061
SW	7:30 AM	30 min Avg	0.015	0.050	0.060
S	8:00 AM	30 min Avg	0.012	0.047	0.057
SW	8:30 AM	30 min Avg	0.013	0.048	0.058
WSW	9:00 AM	30 min Avg	0.003	0.038	0.048
W	9:30 AM	30 min Avg	0.002	0.024	0.037
WNW	10:00 AM	30 min Avg	0.007	0.006	0.042
NW	10:30 AM	30 min Avg	0.01	0.02	0.052
NW	11:00 AM	30 min Avg	0	0.035	0.055
NW	11:30 AM	30 min Avg	0.021	0.007	0.045
NW	12:00 PM	30 min Avg	0.025	0.009	0.066
NW	12:30 PM	30 min Avg	0.019	0.02	0.070
NW	1:00 PM	30 min Avg	0.004	0	0.054
NW	1:30 PM	30 min Avg	0.007	0.008	0.049
NW	2:00 PM	30 min Avg	0	0.018	0.042
NW	2:30 PM	30 min Avg	0	0.001	0.035
	3:00 PM	30 min Avg			0.045
	3:30 PM	30 min Avg			0.035
	4:00 PM	30 min Avg			0.045
	4:30 PM	30 min Avg			0.035
	5:00 PM	30 min Avg			0.045
	5:30 PM	30 min Avg			0.035

E-BAM locations (Upwind) SW- south of building 3 (Downwind) NW- west of building 14 [ 10:33 (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: The 7:00 downwind reading was skipped due to a generator power failure. The warm up readings included the 7:30 readings, therefore the work start time was delayed 30 minutes. At 11:30, crews took an early lunch due to high northerly winds. When they returned at 12:30, winds were still high, so all work ceased except for dust suppression and covering piles of debris with poly sheeting.

**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 01-29-12**

Date: 1/26/2012 Technician: Carl Jones

**Prevailing Wind**

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
	6:00 AM	30 min Avg	30 min Avg	0.035	0.045
	6:30 AM	30 min Avg	30 min Avg	0.035	0.045
	7:00 AM	30 min Avg	30 min Avg	0.035	0.045
	7:30 AM	30 min Avg	30 min Avg	0.035	0.045
	8:00 AM	30 min Avg	30 min Avg	0.035	0.045
	8:30 AM	30 min Avg	30 min Avg	0.035	0.045
	9:00 AM	30 min Avg	30 min Avg	0.035	0.045
	9:30 AM	30 min Avg	30 min Avg	0.035	0.045
	10:00 AM	30 min Avg	30 min Avg	0.035	0.045
	10:30 AM	30 min Avg	30 min Avg	0.035	0.045
	11:00 AM	30 min Avg	30 min Avg	0.035	0.045
	11:30 AM	30 min Avg	30 min Avg	0.035	0.045
	12:00 PM	30 min Avg	30 min Avg	0.035	0.045
	12:30 PM	30 min Avg	30 min Avg	0.035	0.045
	1:00 PM	30 min Avg	30 min Avg	0.035	0.045
	1:30 PM	30 min Avg	30 min Avg	0.035	0.045
	2:00 PM	30 min Avg	30 min Avg	0.035	0.045
	2:30 PM	30 min Avg	30 min Avg	0.035	0.045
	3:00 PM	30 min Avg	30 min Avg	0.035	0.045
	3:30 PM	30 min Avg	30 min Avg	0.035	0.045
	4:00 PM	30 min Avg	30 min Avg	0.035	0.045
	4:30 PM	30 min Avg	30 min Avg	0.035	0.045
	5:00 PM	30 min Avg	30 min Avg	0.035	0.045
	5:30 PM	30 min Avg	30 min Avg	0.035	0.045
	6:00 PM	30 min Avg	30 min Avg	0.035	0.045

E-BAM locations (Upwind)

**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: Work did not start due to the forecast of high northerly winds.*

**No readings were taken.**

**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 01-29-12**

Date: 1/27/2012 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	0.019	30 min Avg	0.022	0.054	0.064
SSE	7:00 AM	30 min Avg	0.016	30 min Avg	0.013	0.051	0.061
SSE	7:30 AM	30 min Avg	0.067	30 min Avg	0.059	0.102	0.112
SSE	8:00 AM	30 min Avg	0	30 min Avg	0	0.035	0.045
S	8:30 AM	30 min Avg	0.023	30 min Avg	0.009	0.058	0.068
SSE	9:00 AM	30 min Avg	0.015	30 min Avg	0.053	0.050	0.060
SSE	9:30 AM	30 min Avg	0.008	30 min Avg	0.001	0.043	0.053
S	10:00 AM	30 min Avg	0	30 min Avg	0.011	0.035	0.045
SSE	10:30 AM	30 min Avg	0.007	30 min Avg	0.002	0.042	0.052
S	11:00 AM	30 min Avg	0.002	30 min Avg	0.012	0.037	0.047
S	11:30 AM	30 min Avg	0.003	30 min Avg	0.003	0.038	0.048
SSE	12:00 PM	30 min Avg	0	30 min Avg	0.011	0.035	0.045
SSE	12:30 PM	30 min Avg	0	30 min Avg	0.009	0.035	0.045
S	1:00 PM	30 min Avg	0.006	30 min Avg	0	0.041	0.051
S	1:30 PM	30 min Avg	0.005	30 min Avg	0.004	0.040	0.050
SSE	2:00 PM	30 min Avg	0.001	30 min Avg	0.007	0.036	0.046
SSE	2:30 PM	30 min Avg	0	30 min Avg	0.004	0.035	0.045
SSE	3:00 PM	30 min Avg	0.013	30 min Avg	0.007	0.048	0.058
SSE	3:30 PM	30 min Avg	0	30 min Avg	0.003	0.035	0.045
SSE	4:00 PM	30 min Avg	0.007	30 min Avg	0	0.042	0.052
SSE	4:30 PM	30 min Avg	0.005	30 min Avg	0.012	0.040	0.050
SE	5:00 PM	30 min Avg	0.005	30 min Avg	0.009	0.040	0.050
SE	5:30 PM	30 min Avg	0.002	30 min Avg	0.009	0.037	0.047

E-BAM locations (Upwind) SW- south of building 3 (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: The 9:00 reading reached an action level. Additional dust suppression was added to roadways and work areas.*

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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 01-29-12**

Date: 1/28/2012 Technician: Carl Jones

**Prevailing Wind**

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
	6:00 AM	30 min Avg	30 min Avg	0.035	0.045
	6:30 AM	30 min Avg	30 min Avg	0.035	0.045
	7:00 AM	30 min Avg	30 min Avg	0.035	0.045
	7:30 AM	30 min Avg	30 min Avg	0.035	0.045
	8:00 AM	30 min Avg	30 min Avg	0.035	0.045
	8:30 AM	30 min Avg	30 min Avg	0.035	0.045
	9:00 AM	30 min Avg	30 min Avg	0.035	0.045
	9:30 AM	30 min Avg	30 min Avg	0.035	0.045
	10:00 AM	30 min Avg	30 min Avg	0.035	0.045
	10:30 AM	30 min Avg	30 min Avg	0.035	0.045
	11:00 AM	30 min Avg	30 min Avg	0.035	0.045
	11:30 AM	30 min Avg	30 min Avg	0.035	0.045
	12:00 PM	30 min Avg	30 min Avg	0.035	0.045
	12:30 PM	30 min Avg	30 min Avg	0.035	0.045
	1:00 PM	30 min Avg	30 min Avg	0.035	0.045
	1:30 PM	30 min Avg	30 min Avg	0.035	0.045
	2:00 PM	30 min Avg	30 min Avg	0.035	0.045
	2:30 PM	30 min Avg	30 min Avg	0.035	0.045
	3:00 PM	30 min Avg	30 min Avg	0.035	0.045
	3:30 PM	30 min Avg	30 min Avg	0.035	0.045
	4:00 PM	30 min Avg	30 min Avg	0.035	0.045
	4:30 PM	30 min Avg	30 min Avg	0.035	0.045
	5:00 PM	30 min Avg	30 min Avg	0.035	0.045
	5:30 PM	30 min Avg	30 min Avg	0.035	0.045

E-BAM locations

**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: Work did not start today due to the forecast of high northerly winds.*

***No readings were taken.***

**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 01-29-12**

Date: 1/29/2012 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	0.035	0.045
N	6:30 AM	30 min Avg	0.014	0.049	0.059
NNE	7:00 AM	30 min Avg	0.007	0.042	0.052
NNE	7:30 AM	30 min Avg	0.014	0.049	0.059
NNE	8:00 AM	30 min Avg	0.008	0.043	0.053
NNE	8:30 AM	30 min Avg	0.022	0.057	0.067
NNE	9:00 AM	30 min Avg	0	0.035	0.045
NNE	9:30 AM	30 min Avg	0.004	0.039	0.049
NE	10:00 AM	30 min Avg	0.012	0.047	0.057
NE	10:30 AM	30 min Avg	0.005	0.040	0.050
NE	11:00 AM	30 min Avg	0.002	0.037	0.047
NE	11:30 AM	30 min Avg	0.003	0.038	0.048
NE	12:00 PM	30 min Avg	0.002	0.037	0.047
ENE	12:30 PM	30 min Avg	0.021	0.056	0.066
ENE	1:00 PM	30 min Avg	0.003	0.038	0.048
ENE	1:30 PM	30 min Avg	0.002	0.037	0.047
NE	2:00 PM	30 min Avg	0.005	0.040	0.050
ENE	2:30 PM	30 min Avg	0.007	0.042	0.052
ENE	3:00 PM	30 min Avg	0.015	0.050	0.060
ENE	3:30 PM	30 min Avg	0.002	0.037	0.047
ENE	4:00 PM	30 min Avg	0.009	0.044	0.054
E	4:30 PM	30 min Avg	0.009	0.044	0.054
ENE	5:00 PM	30 min Avg	0.005	0.040	0.050
	5:30 PM	30 min Avg		0.035	0.045
	6:00PM	30 min Avg		0.035	0.045

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: All work ended at 4:35.*

**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 considered accurate.