

**Former ASARCO-Encycle Demolition  
Particulate Monitoring Summary  
Week Ending 12-10-11**

Date: 12/5/2011 Technician: Carl Jones

**Prevailing Wind**

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work
NNW	6:00 AM	30 min Avg	0	0.035	0.045
NNW	6:30 AM	30 min Avg	0	0.035	0.045
NNW	7:00 AM	30 min Avg	0.04	0.075	0.085
NNW	7:30 AM	30 min Avg	0.001	0.036	0.046
NNW	8:00 AM	30 min Avg	0.017	0.052	0.062
NNW	8:30 AM	30 min Avg	0	0.035	0.045
NNW	9:00 AM	30 min Avg	0.027	0.062	0.072
NNW	9:30 AM	30 min Avg	0	0.035	0.045
NNW	10:00 AM	30 min Avg	0.01	0.045	0.055
NNW	10:30 AM	30 min Avg	0	0.035	0.045
NW	11:00 AM	30 min Avg	0	0.035	0.045
	11:30 AM	30 min Avg		0.035	0.045
	12:00 PM	30 min Avg		0.035	0.045
	12:30 PM	30 min Avg		0.035	0.045
	1:00 PM	30 min Avg		0.035	0.045
	1:30 PM	30 min Avg		0.035	0.045
	2:00 PM	30 min Avg		0.035	0.045
	2:30 PM	30 min Avg		0.035	0.045
	3:00 PM	30 min Avg		0.035	0.045
	3:30 PM	30 min Avg		0.035	0.045
	4:00 PM	30 min Avg		0.035	0.045
	4:30 PM	30 min Avg		0.035	0.045
	5:00 PM	30 min Avg		0.035	0.045
	5:30 PM	30 min Avg		0.035	0.045

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

**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 loading of steel into trucks, working on the wind tarp and P.M. work on equipment were the only activities that were started today due to the forecast of high northerly winds. The work on the wind tarps and the P.M. work on the equipment were the only projects in progress when the monitors were shut down*

**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 12-10-11**

Date: 12/6/2011 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	0.032	30 min Avg	0.044	0.067	0.077
N	6:30 AM	30 min Avg	0	30 min Avg	0.011	0.035	0.045
NNW	7:00 AM	30 min Avg	0.006	30 min Avg	0.008	0.041	0.051
NNW	7:30 AM	30 min Avg	0.036	30 min Avg	0.002	0.071	0.081
NNW	8:00 AM	30 min Avg	0.01	30 min Avg	0.008	0.045	0.055
NNW	8:30 AM	30 min Avg	0.01	30 min Avg	0.014	0.045	0.055
NW	9:00 AM	30 min Avg	0.01	30 min Avg	0.007	0.045	0.055
NW	9:30 AM	30 min Avg	0.005	30 min Avg	0.006	0.040	0.050
NW	10:00 AM	30 min Avg	0.002	30 min Avg	0.012	0.037	0.047
NW	10:30 AM	30 min Avg	0	30 min Avg	0	0.035	0.045
NW	11:00 AM	30 min Avg	0.004	30 min Avg	0.014	0.039	0.049
NW	11:30 AM	30 min Avg	0	30 min Avg	0.004	0.035	0.045
NW	12:00 PM	30 min Avg	0.006	30 min Avg	0.011	0.041	0.051
NW	12:30 PM	30 min Avg	0	30 min Avg	0.019	0.035	0.045
NW	1:00 PM	30 min Avg	0.011	30 min Avg	0.014	0.046	0.056
NW	1:30 PM	30 min Avg	0.002	30 min Avg	0.011	0.037	0.047
NW	2:00 PM	30 min Avg	0.001	30 min Avg	0.007	0.036	0.046
NW	2:30 PM	30 min Avg	0.01	30 min Avg	0.013	0.045	0.055
NW	3:00 PM	30 min Avg	0.007	30 min Avg	0.008	0.042	0.052
NW	3:30 PM	30 min Avg	0.002	30 min Avg	0.012	0.037	0.047
NW	4:00 PM	30 min Avg	0.012	30 min Avg	0.006	0.047	0.057
NW	4:30 PM	30 min Avg	0	30 min Avg	0.019	0.035	0.045
N	5:00 PM	30 min Avg	0.016	30 min Avg	0.01	0.051	0.061
N	5:30 PM	30 min Avg	0.01	30 min Avg	0.013	0.045	0.055

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

**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 12-10-11**

Date: 12/7/2011 Technician: Carl Jones

**Prevailing Wind**

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
NNW	6:00 AM	30 min Avg	0.033	30 min Avg	0.026	0.068	0.078
NNW	6:30 AM	30 min Avg	0.04	30 min Avg	0.014	0.075	0.085
NNW	7:00 AM	30 min Avg	0.008	30 min Avg	0.001	0.043	0.053
NNW	7:30 AM	30 min Avg	0	30 min Avg	0.014	0.035	0.045
NNW	8:00 AM	30 min Avg	0.007	30 min Avg	0	0.042	0.052
NNW	8:30 AM	30 min Avg	0.006	30 min Avg	0	0.041	0.051
N	9:00 AM	30 min Avg	0	30 min Avg	0.006	0.035	0.045
N	9:30 AM	30 min Avg	0.001	30 min Avg	0.022	0.036	0.046
N	10:00 AM	30 min Avg	0.007	30 min Avg	0.017	0.042	0.052
N	10:30 AM	30 min Avg	0	30 min Avg	0.02	0.035	0.045
N	11:00 AM	30 min Avg	0.007	30 min Avg	0.006	0.042	0.052
N	11:30 AM	30 min Avg	0.003	30 min Avg	0.015	0.038	0.048
N	12:00 PM	30 min Avg	0.002	30 min Avg	0.007	0.037	0.047
N	12:30 PM	30 min Avg	0.006	30 min Avg	0	0.041	0.051
N	1:00 PM	30 min Avg	0.001	30 min Avg	0.008	0.036	0.046
N	1:30 PM	30 min Avg	0.014	30 min Avg	0.008	0.049	0.059
NNW	2:00 PM	30 min Avg	0	30 min Avg	0.007	0.035	0.045
NNW	2:30 PM	30 min Avg	0.002	30 min Avg	0	0.037	0.047
NNE	3:00 PM	30 min Avg	0.004	30 min Avg	0.016	0.039	0.049
NNE	3:30 PM	30 min Avg	0.012	30 min Avg	0.002	0.047	0.057
NNE	4:00 PM	30 min Avg	0	30 min Avg	0.006	0.035	0.045
NNE	4:30 PM	30 min Avg	0.017	30 min Avg	0.005	0.052	0.062
NNE	5:00 PM	30 min Avg	0.007	30 min Avg	0.018	0.042	0.052
NNE	5:30 PM	30 min Avg	0.004	30 min Avg	0.001	0.039	0.049

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

**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 12-10-11**

Date: 12/8/2011 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 0.047	30 min Avg 0.037	0.082	0.092
6:30 AM	30 min Avg 0.044	30 min Avg 0.02	0.079	0.089
7:00 AM	30 min Avg 0.013	30 min Avg 0.015	0.048	0.058
7:30 AM	30 min Avg 0.015	30 min Avg 0.01	0.050	0.060
8:00 AM	30 min Avg 0.014	30 min Avg 0.003	0.049	0.059
8:30 AM	30 min Avg 0	30 min Avg 0	0.035	0.045
9:00 AM	30 min Avg 0	30 min Avg 0.009	0.035	0.045
9:30 AM	30 min Avg 0	30 min Avg 0.008	0.035	0.045
10:00 AM	30 min Avg 0	30 min Avg 0.015	0.035	0.045
10:30 AM	30 min Avg 0.005	30 min Avg 0.013	0.040	0.050
11:00 AM	30 min Avg 0.012	30 min Avg 0.007	0.047	0.057
11:30 AM	30 min Avg 0.013	30 min Avg 0.013	0.048	0.058
12:00 PM	30 min Avg 0.007	30 min Avg 0	0.042	0.052
12:30 PM	30 min Avg 0.023	30 min Avg 0.02	0.058	0.068
1:00 PM	30 min Avg 0.01	30 min Avg 0	0.045	0.055
1:30 PM	30 min Avg 0	30 min Avg 0.009	0.035	0.045
2:00 PM	30 min Avg 0.013	30 min Avg 0.013	0.048	0.058
2:30 PM	30 min Avg 0.011	30 min Avg 0.006	0.046	0.056
3:00 PM	30 min Avg 0.02	30 min Avg 0.012	0.055	0.065
3:30 PM	30 min Avg 0.02	30 min Avg 0.009	0.055	0.065
4:00 PM	30 min Avg 0.016	30 min Avg 0.008	0.051	0.061
4:30 PM	30 min Avg 0.007	30 min Avg 0.004	0.042	0.052
5:00 PM	30 min Avg 0.021	30 min Avg 0.017	0.056	0.066
5:30 PM	30 min Avg 0.007	30 min Avg 0.008	0.042	0.052

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

**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 12-10-11**

Date: 12/9/2011 Technician: Carl Jones

**Prevailing Wind**

Direction	Time	Unit 2-Upwind Reading	Unit 1-Downwind Reading	Action Level	Stop Work		
NE	6:00 AM	30 min Avg	0.019	30 min Avg	0	0.054	0.064
NE	6:30 AM	30 min Avg	0.047	30 min Avg	0.055	0.082	0.092
NE	7:00 AM	30 min Avg	0.024	30 min Avg	0.005	0.059	0.069
NE	7:30 AM	30 min Avg	0.019	30 min Avg	0.012	0.054	0.064
N	8:00 AM	30 min Avg	0.019	30 min Avg	0.021	0.054	0.064
N	8:30 AM	30 min Avg	0	30 min Avg	0.027	0.035	0.045
N	9:00 AM	30 min Avg	0	30 min Avg	0.011	0.035	0.045
N	9:30 AM	30 min Avg	0.001	30 min Avg	0.006	0.036	0.046
N	10:00 AM	30 min Avg	0	30 min Avg	0.004	0.035	0.045
ENE	10:30 AM	30 min Avg	0.005	30 min Avg	0.02	0.040	0.050
ENE	11:00 AM	30 min Avg	0	30 min Avg	0.055	0.035	0.045
ENE	11:30 AM	30 min Avg	0.006	30 min Avg	0.038	0.041	0.051
ENE	12:00 PM	30 min Avg	0.007	30 min Avg	0.008	0.042	0.052
ENE	12:30 PM	30 min Avg	0	30 min Avg	0.028	0.035	0.045
ENE	1:00 PM	30 min Avg	0.019	30 min Avg	0.01	0.054	0.064
ENE	1:30 PM	30 min Avg	0	30 min Avg	0.03	0.035	0.045
ENE	2:00 PM	30 min Avg	0.014	30 min Avg	0.033	0.049	0.059
ENE	2:30 PM	30 min Avg	0	30 min Avg	0.004	0.035	0.045
ENE	3:00 PM	30 min Avg	0.012	30 min Avg	0.006	0.047	0.057
ENE	3:30 PM	30 min Avg	0.003	30 min Avg	0.025	0.038	0.048
ENE	4:00 PM	30 min Avg	0.006	30 min Avg	0.008	0.041	0.051
ENE	4:30 PM	30 min Avg	0.012	30 min Avg	0.012	0.047	0.057
ENE	5:00 PM	30 min Avg	0.017	30 min Avg	0.01	0.052	0.062
ENE	5:30 PM	30 min Avg	0.025	30 min Avg	0.018	0.060	0.070

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: At 11:00, there was a stop work reading. All work except for dust suppression stopped for 30 minutes, until the next reading which was favorable to continue work.*

**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 12-10-11**

Date: 12/10/2011 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 rain and high northerly winds; no readings taken*

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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.