

Week of June 28, 2004

McCoy Field-Keith Middle School Construction Project New Bedford, MA

Daily Field Notes and Dust Monitoring

Date: June 28, 2004

Field Personnel: Barbara Markley BETA Group, Inc.

Time on Site: 6:30-15:00

Weather: AM- sunny, mid 60s

PM- hot, low 80s

Wind: AM- light and variable

PM- from S

Summary of Activities Performed

WES Construction activities include backfilling quadrants Q33 & Q34 of the southern clean corridor. Lead abatement of Q28 (4-11 feet below grade) was performed by United Retek. Abatement was performed with proper mixing and then the area was covered with 20 mil polyethylene sheeting. Approximately 1,000 pounds of Enviroblend powder was added to 4-8 feet and 8-11 feet of depth. Upon completion of abatement, two samples (4-8' and 8-11' at 8:25 AM and 8:50 AM, respectively) were collected and then transported to NET Lab of North Providence by BETA personnel. BETA personnel departed the site at 9:20 AM for sample delivery and returned at 11:10 AM. Datalogger battery was dead upon return to site. Work area moved to embankment area (vicinity of Q5 proceeding northward) for vegetation clearing for the remainder of the work day.

Kimberly Tisa of the Environmental Protection Agency (EPA) and Alan Hanscom (BETA) were onsite at 1:00 PM for a site walk and observation of site activities.

No contaminated soil hauled from Site today.

Summary of Dust Monitoring Results

Two dust monitoring units on-site. One unit (02352) for manual logging, and one unit (04701) set up for automatic logging (every 15 minutes). Manual dust monitoring readings averaged 0.000 mg/m³ to 4.718 mg/m³ during the day. The highest dust measurements occurred during the addition of the lead abatement powder with a slight wind from the south-southeast.

The logging unit compiled average dust concentrations every fifteen minutes throughout the day. The fifteen-minute averages ranged between approximately 0.003 mg/m³-0.011mg/m³. The overall average concentration for the day was 0.007 mg/m³.

pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 07

Number of logged points: 10

Start time and date: 06:53:15 28-Jun

Elapsed time: 02:30:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 0.333 mg/m³

Time at maximum: 07:04:55 Jun 28

Max STEL Concentration: 0.014 mg/m³

Time at max STEL: 07:33:45 Jun 28

Overall Avg Conc: 0.007 mg/m³

Logged Data:

Point	Date	Time	Avg.(mg/m ³)
1	28-Jun	07:08:15	0.01
2	28-Jun	07:23:15	0.008
3	28-Jun	07:38:15	0.01
4	28-Jun	07:53:15	0.011
5	28-Jun	08:08:15	0.006
6	28-Jun	08:23:15	0.004
7	28-Jun	08:38:15	0.004
8	28-Jun	08:53:15	0.003
9	28-Jun	09:08:15	0.003
10	28-Jun	09:23:15	0.007

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McCoy Field-Keith Middle School Construction Project New Bedford, MA

Daily Field Notes and Dust Monitoring

Date: June 29, 2004 **Field Personnel:** Christian Alarie, BETA Group, Inc.

Time on Site: 6:15-14:45

Weather: AM- Rainy, Foggy, Damp, 60° PM- Warm, Sunny, 75°

Wind: 7 am-Light, from North
8:30 am-Light, from West
11 am-Strong, from South
12:45 pm-Strong, from North

Summary of Activities Performed

WES Construction worked on the silt fence along sections of the embankments near the wetlands, excavated and stockpiled soils from embankment quadrants Q-4 and Q-5, worked on surveying sections of the embankments and moved clean fill (sand) towards the utility corridor.

No soil was removed from the site for off-site disposal.

Summary of Dust Monitoring Results

Two dust monitoring units on-site. One unit for manual logging and one unit set up for automatic logging.

Concentrations from manual logging in the morning were in the .009-.071 mg/m³ range. Concentrations in the afternoon were in the .000-.098 mg/m³ range. All dust monitoring locations exhibited low levels (<0.100 mg/m³) of particulates with the exception of one reading (0.179 mg/m³) that was recorded at 2:10 pm.

Today's automatic dust monitoring logging data is identified as TAG # 08. The logging unit compiled average dust concentrations every fifteen minutes throughout the day. The fifteen-minute averages ranged between approximately 0.001 mg/m³-0.032 mg/m³. The overall average concentration for the day was 0.012 mg/m³.

pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 08

Number of logged points: 31

Start time and date: 06:47:25 29-Jun

Elapsed time: 07:45:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 2.059 mg/m³

Time at maximum: 12:55:58 Jun 29

Max STEL Concentration: 0.040 mg/m³

Time at max STEL: 12:19:56 Jun 29

Overall Avg Conc: 0.012 mg/m³

Logged Data:

Point	Date	Time	Avg.(mg/m ³)
1	29-Jun	07:02:25	0.025
2	29-Jun	07:17:25	0.021
3	29-Jun	07:32:25	0.027
4	29-Jun	07:47:25	0.027
5	29-Jun	08:02:25	0.023
6	29-Jun	08:17:25	0.02
7	29-Jun	08:32:25	0.02
8	29-Jun	08:47:25	0.017
9	29-Jun	09:02:25	0.012
10	29-Jun	09:17:25	0.01
11	29-Jun	09:32:25	0.012
12	29-Jun	09:47:25	0.014
13	29-Jun	10:02:25	0.01
14	29-Jun	10:17:25	0.004
15	29-Jun	10:32:25	0.012
16	29-Jun	10:47:25	0.008
17	29-Jun	11:02:25	0.006
18	29-Jun	11:17:25	0.005
19	29-Jun	11:32:25	0.004
20	29-Jun	11:47:25	0.006
21	29-Jun	12:02:25	0.006
22	29-Jun	12:17:25	0.031
23	29-Jun	12:32:25	0.011
24	29-Jun	12:47:25	0.011
25	29-Jun	13:02:25	0.032
26	29-Jun	13:17:25	0.003
27	29-Jun	13:32:25	0.005
28	29-Jun	13:47:25	0.002
29	29-Jun	14:02:25	0.001
30	29-Jun	14:17:25	0.007
31	29-Jun	14:32:25	0.001

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McCoy Field-Keith Middle School Construction Project New Bedford, MA

Daily Field Notes and Dust Monitoring

Date: June 30, 2004

Field Personnel: Christian Alarie, BETA Group, Inc.

Time on Site: 6:55-14:45

Weather: AM- Warm, Sunny 70°

PM- Warm, Sunny, 80 to 85°

Wind: 7 am-Light, from South
7:30-Strong, from North

Summary of Activities Performed

WES Construction excavated soil from utility corridor quadrants Q-27 and Q-28.

Contaminated soil was loaded into trailer trucks for off-site management from utility corridor quadrants Q-27 and Q-28.

WES laid drain and sewer pipes in utility corridor Q-27 and Q-28 as well as laid geotextile fabric, backfilled (clean sand and gravel), graded, and compacted area as appropriate.

Total of 7 truck loads of contaminated soil were removed from the Site today.

Summary of Dust Monitoring Results

Two dust monitoring units on-site. One unit for manual logging and one unit set up for automatic logging.

Concentrations from manual logging in the morning ranged from .000-.206 mg/m³, with an average concentration of 0.043 mg/m³. Concentrations from manual logging in the afternoon ranged from .014-.097 mg/m³, with an average concentration of 0.049 mg/m³. All dust monitoring locations exhibited low (<0.100 mg/m³) to moderate levels (0.100 to 0.400 mg/m³) of particulates. The down wind readings recorded at 9:40, 10:06, 10:35, the cross reading recording at 11:45 and the up wind measurement recorded at 12:58 exhibited particulate concentrations of 0.108 to 0.206 mg/m³. The cause of the moderate levels of particulates were as a result of either laying clean gravel in the excavated areas or dust and/or diesel fumes generated by the movement of construction vehicles along the dirt access road. The road and gravel were wet down following the moderate readings, so as to prevent the generation of dust. The resulting particulate concentrations were less than 0.032 mg/m³.

Today's automatic dust monitoring logging data is identified as TAG # 09. The logging unit compiled average dust concentrations every fifteen minutes throughout the day. The fifteen-minute averages ranged between approximately 0.003 mg/m^3 - 0.055 mg/m^3 . The overall average concentration for the day was 0.022 mg/m^3 .

pDR-1000 S/N: 00000
User ID: 04701
Tag Number: 09
Number of logged points: 29
Start time and date: 07:20:13 30-Jun
Elapsed time: 07:15:00
Logging period (sec): 900
Calibration Factor (%): 100
Max Display Concentration: 1.922 mg/m³
Time at maximum: 11:01:21 Jun 30
Max STEL Concentration: 0.067 mg/m³
Time at max STEL: 11:07:43 Jun 30
Overall Avg Conc: 0.022 mg/m³

Logged Data:

Point	Date	Time	Avg.(mg/m ³)
1	30-Jun	07:35:13	0.022
2	30-Jun	07:50:13	0.019
3	30-Jun	08:05:13	0.022
4	30-Jun	08:20:13	0.028
5	30-Jun	08:35:13	0.02
6	30-Jun	08:50:13	0.018
7	30-Jun	09:05:13	0.028
8	30-Jun	09:20:13	0.024
9	30-Jun	09:35:13	0.027
10	30-Jun	09:50:13	0.018
11	30-Jun	10:05:13	0.019
12	30-Jun	10:20:13	0.015
13	30-Jun	10:35:13	0.026
14	30-Jun	10:50:13	0.016
15	30-Jun	11:05:13	0.055
16	30-Jun	11:20:13	0.024
17	30-Jun	11:35:13	0.01
18	30-Jun	11:50:13	0.003
19	30-Jun	12:05:13	0.005
20	30-Jun	12:20:13	0.03
21	30-Jun	12:35:13	0.037
22	30-Jun	12:50:13	0.023
23	30-Jun	13:05:13	0.043
24	30-Jun	13:20:13	0.019
25	30-Jun	13:35:13	0.016
26	30-Jun	13:50:13	0.018
27	30-Jun	14:05:13	0.02
28	30-Jun	14:20:13	0.018
29	30-Jun	14:35:13	0.019

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McCoy Field-Keith Middle School Construction Project New Bedford, MA

Daily Field Notes and Dust Monitoring

Date: July 1, 2004

Field Personnel: Jim Smith, BETA Group, Inc.

Time on Site: 6:30-15:00

Weather: AM- sunny, 70°

PM- sunny, 80°

Wind: light, from S

Summary of Activities Performed

WES Construction excavating soil from utility corridor quadrants Q-27 and Q-26. Contaminated soil being loaded into trailer trucks for off-site management.

WES installing sewer and drain manholes in quadrant Q-26.

Total of 7 truck loads of contaminated soil hauled from Site today (6 trucks hauling <50 ppm PCB contamination to Turnkey, 1 truck hauling >50 ppm PCB to alternate facility).

Summary of Dust Monitoring Results

Two dust monitoring units on-site. One unit (02352) for manual logging, and one unit (04701) set up for automatic logging (every 15 minutes). Manual dust monitoring readings averaged .040 mg/m³ during the morning, and .070 mg/m³ during the afternoon. Directed WES to spray water for dust control on two occasions.

Today's automatic dust monitoring logging data is identified as TAG # 10. The logging unit compiled average dust concentrations every fifteen minutes throughout the day. The fifteen-minute averages ranged between approximately 0-0.060 mg/m³. The overall average concentration for the day was 0.030 mg/m³.

pDR-1000 S/N: 00000
User ID: 04701
Tag Number: 10
Number of logged points: 30
Start time and date: 06:48:14 01-Jul
Elapsed time: 07:30:00
Logging period (sec): 900
Calibration Factor (%): 100
Max Display Concentration: 1.796 mg/m³
Time at maximum: 09:09:36 Jul 01
Max STEL Concentration: 0.079 mg/m³
Time at max STEL: 09:22:45 Jul 01
Overall Avg Conc: 0.030 mg/m³

Logged Data:

Point	Date	Time	Avg.(mg/m ³)
1	1-Jul	07:03:14	0.034
2	1-Jul	07:18:14	0.032
3	1-Jul	07:33:14	0.03
4	1-Jul	07:48:14	0.027
5	1-Jul	08:03:14	0.027
6	1-Jul	08:18:14	0.026
7	1-Jul	08:33:14	0.027
8	1-Jul	08:48:14	0.068
9	1-Jul	09:03:14	0.029
10	1-Jul	09:18:14	0.065
11	1-Jul	09:33:14	0.037
12	1-Jul	09:48:14	0.028
13	1-Jul	10:03:14	0.034
14	1-Jul	10:18:14	0.03
15	1-Jul	10:33:14	0.02
16	1-Jul	10:48:14	0.02
17	1-Jul	11:03:14	0.02
18	1-Jul	11:18:14	0.024
19	1-Jul	11:33:14	0.032
20	1-Jul	11:48:14	0.024
21	1-Jul	12:03:14	0.027
22	1-Jul	12:18:14	0.024
23	1-Jul	12:33:14	0.024
24	1-Jul	12:48:14	0.025
25	1-Jul	13:03:14	0.028
26	1-Jul	13:18:14	0.025
27	1-Jul	13:33:14	0.028
28	1-Jul	13:48:14	0.025
29	1-Jul	14:03:14	0.026
30	1-Jul	14:18:14	0.033

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McCoy Field-Keith Middle School Construction Project New Bedford, MA

Daily Field Notes and Dust Monitoring

Date: July 2, 2004

Field Personnel: Christian Alarie, BETA Group, Inc.

Time on Site: 6:35-14:00

Weather: AM- Overcast, 70°
9:45 am- Foggy, Rainy

PM- Warm, Sunny, 70 to 80°

Wind: 7 am-Light, from South
8:45 am-Strong, from South

Summary of Activities Performed

WES Construction excavated soil from utility corridor quadrants Q-23, Q-24, Q-25 and Q-26.

Contaminated soil was loaded into trailer trucks for off-site management from utility corridor quadrants Q-25 and Q-26. Stockpiled soil from utility corridor quadrants Q-23, Q-24 and Q-25 were placed at grade adjacent to their respective quadrant for later disposal.

WES laid drain and sewer pipes in utility corridor quadrants Q-25 and Q-26, as well as laid geotextile fabric, backfilled (clean sand and gravel), graded, and compacted each area as appropriate. WES also, worked on laying geotextile fabric, backfilling (clean sand and gravel), grading, and compacting utility quadrants Q-27, Q-28, Q-33 and Q-34 as appropriate.

Manholes were installed in utility quadrant Q-27.

Total of 4 truck loads of contaminated soil were removed from the Site today.

Summary of Dust Monitoring Results

Two dust monitoring units on-site. One unit for manual logging and one unit set up for automatic logging.

Concentrations from manual logging in the morning ranged from .000-.124 mg/m³, with an average concentration of 0.064 mg/m³ and a one time spike of 0.623 mg/m³. Concentrations from manual logging in the afternoon ranged from .062-.137 mg/m³, with

an average concentration of 0.094 mg/m^3 . All dust monitoring locations exhibited low ($<0.100 \text{ mg/m}^3$) to moderate (0.100 to 0.400 mg/m^3) levels of particulates with the exception of the down wind reading collected at 10:45 am which exhibited a reading of 0.623 mg/m^3 . That down wind reading and all moderately high readings ($>0.100 \text{ mg/m}^3$) were as a result of either laying clean gravel in the excavated areas, the compaction of said material, dust and/or diesel fumes generated by the movement of construction vehicles along the dirt access road, or as a result of dust generated during manhole saw cutting activities. The road and clean sand and gravel being moved and placed in the utility corridor were wet down several times during the course of the day including immediately after the detection of significant concentrations of airborne particulates.

Today's automatic dust monitoring logging data is identified as TAG #'s 11 & 12. The logging unit compiled average dust concentrations every fifteen minutes throughout the day. The fifteen-minute averages ranged between approximately 0.000 mg/m^3 - 0.093 mg/m^3 . The overall average concentration for the day was approximately 0.055 mg/m^3 .

pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 11

Number of logged points: 5

Start time and date: 06:54:17 02-Jul

Elapsed time: 01:15:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 0.056 mg/m³

Time at maximum: 06:55:36 Jul 02

Max STEL Concentration: 0.007 mg/m³

Time at max STEL: 07:08:17 Jul 02

Overall Avg Conc: 0.000 mg/m³

Logged Data:

Point	Date	Time	Avg.(mg/m ³)
1	2-Jul	07:09:17	0.007
2	2-Jul	07:24:17	0
3	2-Jul	07:39:17	0.001
4	2-Jul	07:54:17	0
5	2-Jul	08:09:17	0.002

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pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 12

Number of logged points: 20

Start time and date: 08:43:20 02-Jul

Elapsed time: 05:00:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 2.339 mg/m³

Time at maximum: 11:04:09 Jul 02

Max STEL Concentration: 0.103 mg/m³

Time at max STEL: 13:31:21 Jul 02

Overall Avg Conc: 0.055 mg/m³

Logged Data:

Point	Date	Time	Avg.(mg/m ³)
1	2-Jul	08:58:20	0.029
2	2-Jul	09:13:20	0.035
3	2-Jul	09:28:20	0.028
4	2-Jul	09:43:20	0.041
5	2-Jul	09:58:20	0.038
6	2-Jul	10:13:20	0.036
7	2-Jul	10:28:20	0.044
8	2-Jul	10:43:20	0.034
9	2-Jul	10:58:20	0.035
10	2-Jul	11:13:20	0.093
11	2-Jul	11:28:20	0.035
12	2-Jul	11:43:20	0.043
13	2-Jul	11:58:20	0.041
14	2-Jul	12:13:20	0.053
15	2-Jul	12:28:20	0.069
16	2-Jul	12:43:20	0.065
17	2-Jul	12:58:20	0.078
18	2-Jul	13:13:20	0.087
19	2-Jul	13:28:20	0.1
20	2-Jul	13:43:20	0.078

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