

**Week of July 5, 2004**

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

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## Daily Field Notes and Dust Monitoring

**Date:** July 6, 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 N

### Summary of Activities Performed

WES Construction excavating soil from utility corridor quadrants Q-24, Q-23, and Q-22. Contaminated soil being loaded into trailer trucks for off-site management. Precharacterized portions of soil in Q-24, Q-23, and Q-22 are being stockpiled in AM for disposal as >50 ppm PCB.

WES installing additional sewer and drain pipe today.

Total of 7 truck loads of contaminated soil hauled from Site today (5 trucks hauling <50 ppm PCB contamination to Turnkey, 3 trucks 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  $.020 \text{ mg/m}^3$  to  $.030 \text{ mg/m}^3$  during the day.

Today's automatic dust monitoring logging data is identified as TAG # 14. The logging unit compiled average dust concentrations every fifteen minutes throughout the day. The fifteen-minute averages ranged between approximately  $0.010 \text{ mg/m}^3$ - $0.040 \text{ mg/m}^3$ . The overall average concentration for the day was  $0.023 \text{ mg/m}^3$ .

pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 13

Number of logged points: 1

Start time and date: 07:00:52 06-Jul

Elapsed time: 00:15:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 0.025 mg/m<sup>3</sup>

Time at maximum: 07:19:13 Jul 06

Max STEL Concentration: 0.011 mg/m<sup>3</sup>

Time at max STEL: 07:15:22 Jul 06

Overall Avg Conc: 0.011 mg/m<sup>3</sup>

Logged Data:

| Point | Date  | Time     | Avg.(mg/m <sup>3</sup> ) |
|-------|-------|----------|--------------------------|
| 1     | 6-Jul | 07:15:52 | 0.011                    |

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pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 14

Number of logged points: 27

Start time and date: 07:39:39 06-Jul

Elapsed time: 06:45:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 1.111 mg/m<sup>3</sup>

Time at maximum: 10:39:18 Jul 06

Max STEL Concentration: 0.048 mg/m<sup>3</sup>

Time at max STEL: 10:40:09 Jul 06

Overall Avg Conc: 0.023 mg/m<sup>3</sup>

Logged Data:

| Point | Date  | Time     | Avg.(mg/m <sup>3</sup> ) |
|-------|-------|----------|--------------------------|
| 1     | 6-Jul | 07:54:39 | 0.022                    |
| 2     | 6-Jul | 08:09:39 | 0.027                    |
| 3     | 6-Jul | 08:24:39 | 0.022                    |
| 4     | 6-Jul | 08:39:39 | 0.029                    |
| 5     | 6-Jul | 08:54:39 | 0.017                    |
| 6     | 6-Jul | 09:09:39 | 0.019                    |
| 7     | 6-Jul | 09:24:39 | 0.017                    |
| 8     | 6-Jul | 09:39:39 | 0.024                    |
| 9     | 6-Jul | 09:54:39 | 0.018                    |
| 10    | 6-Jul | 10:09:39 | 0.023                    |
| 11    | 6-Jul | 10:24:39 | 0.028                    |
| 12    | 6-Jul | 10:39:39 | 0.047                    |
| 13    | 6-Jul | 10:54:39 | 0.014                    |
| 14    | 6-Jul | 11:09:39 | 0.013                    |
| 15    | 6-Jul | 11:24:39 | 0.018                    |
| 16    | 6-Jul | 11:39:39 | 0.035                    |
| 17    | 6-Jul | 11:54:39 | 0.014                    |
| 18    | 6-Jul | 12:09:39 | 0.025                    |
| 19    | 6-Jul | 12:24:39 | 0.021                    |
| 20    | 6-Jul | 12:39:39 | 0.018                    |
| 21    | 6-Jul | 12:54:39 | 0.024                    |
| 22    | 6-Jul | 13:09:39 | 0.017                    |
| 23    | 6-Jul | 13:24:39 | 0.022                    |
| 24    | 6-Jul | 13:39:39 | 0.021                    |
| 25    | 6-Jul | 13:54:39 | 0.033                    |
| 26    | 6-Jul | 14:09:39 | 0.028                    |
| 27    | 6-Jul | 14:24:39 | 0.018                    |

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

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## Daily Field Notes and Dust Monitoring

**Date:** July 7, 2004

**Field Personnel:** Christian Alarie, BETA Group, Inc.

**Time on Site:** 6:35-15:15

**Weather:** AM- Sunny 60 to 70°

PM- Warm, Sunny, 70 to 80°

**Wind:** 7 am-Light, from Northeast  
12:25 pm-light, from South

### Summary of Activities Performed

WES Construction excavated and/or removed soil from utility corridor quadrants Q-18 through Q-21. Contaminated soil was loaded into trailer trucks for off-Site management from utility corridor quadrants Q-20 through Q-22. WES also excavated and stockpiled soil from utility corridor quadrants Q-18 and Q-19 for later disposal.

WES laid drain and sewer pipes in utility corridor Q-20 as well as laid geotextile fabric, backfilled (clean sand and gravel), graded, and compacted that area as appropriate. WES also worked on laying geotextile fabric, backfilling (clean sand and gravel), grading, and compacting utility quadrants Q-21, Q-22 and Q-23 as appropriate.

Total of 6 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-.166 mg/m<sup>3</sup>, with an average concentration of 0.024 mg/m<sup>3</sup>. Concentrations from manual logging in the afternoon ranged from .062-.277 mg/m<sup>3</sup>, with an average concentration of 0.057 mg/m<sup>3</sup>. All dust monitoring locations exhibited low (<0.100 mg/m<sup>3</sup>) to moderate (<0.400 mg/m<sup>3</sup>) levels of particulates. All moderately high particulate readings were as a result of either laying clean gravel in the excavated areas, the compaction of said material or dust and/or diesel fumes generated by the movement of construction vehicles along the dirt access road. 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 15 and 16. The logging unit compiled average dust concentrations every fifteen minutes throughout the day. The fifteen-minute averages ranged between approximately 0.007 mg/m<sup>3</sup>-0.081 mg/m<sup>3</sup>. The overall average concentration for the day was approximately 0.018 mg/m<sup>3</sup>.

pDR-1000 S/N: 00000  
User ID: 04701  
Tag Number: 15  
Number of logged points: 18  
Start time and date: 06:53:41 07-Jul  
Elapsed time: 04:30:00  
Logging period (sec): 900  
Calibration Factor (%): 100  
Max Display Concentration: 1.892 mg/m<sup>3</sup>  
Time at maximum: 10:29:27 Jul 07  
Max STEL Concentration: 0.079 mg/m<sup>3</sup>  
Time at max STEL: 10:39:42 Jul 07  
Overall Avg Conc: 0.018 mg/m<sup>3</sup>

Logged Data:

| Point | Date  | Time     | Avg.(mg/m <sup>3</sup> ) |
|-------|-------|----------|--------------------------|
| 1     | 7-Jul | 07:08:41 | 0.009                    |
| 2     | 7-Jul | 07:23:41 | 0.009                    |
| 3     | 7-Jul | 07:38:41 | 0.019                    |
| 4     | 7-Jul | 07:53:41 | 0.007                    |
| 5     | 7-Jul | 08:08:41 | 0.007                    |
| 6     | 7-Jul | 08:23:41 | 0.017                    |
| 7     | 7-Jul | 08:38:41 | 0.021                    |
| 8     | 7-Jul | 08:53:41 | 0.017                    |
| 9     | 7-Jul | 09:08:41 | 0.016                    |
| 10    | 7-Jul | 09:23:41 | 0.014                    |
| 11    | 7-Jul | 09:38:41 | 0.008                    |
| 12    | 7-Jul | 09:53:41 | 0.015                    |
| 13    | 7-Jul | 10:08:41 | 0.015                    |
| 14    | 7-Jul | 10:23:41 | 0.013                    |
| 15    | 7-Jul | 10:38:41 | 0.064                    |
| 16    | 7-Jul | 10:53:41 | 0.04                     |
| 17    | 7-Jul | 11:08:41 | 0.027                    |
| 18    | 7-Jul | 11:23:41 | 0.015                    |

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

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## Daily Field Notes and Dust Monitoring

**Date:** July 8, 2004

**Field Personnel:** Barbara Markley, BETA Group, Inc.

**Time on Site:** 6:20-14:40

**Weather:** AM- cloudy, low 60s, misty & humid    PM- Rain, mid 70s

**Wind:** AM- light and variable    PM- from SSE

### Summary of Activities Performed

WES Construction activities included the load out of stockpiled PCB contaminated soil >50ppm into Trucks 1 and 2. Truck 3 was loaded with PCB waste >50ppm from Q17 (1-2' and 4-6' below grade). Waste from 2-4' (Q17) was properly stockpiled. Trucks 4, 5, and 6 were filled with PCB contaminated waste <50ppm (portion of Q17-2-4' and part of Q16). All trucks were properly lined prior to being loaded and decontaminated prior to transportation off-site. Quadrants Q19 and Q20 were backfilled and compressed for utility installation. Large boulders were removed from Q17 (western portion ~5-6' below grade). Dewatering activities were initiated in western portion of Q18 to remove water from the boulder grave (empty area after removal of boulder). Separation fabric was installed in Q18, Q17, and a portion of Q16 and then backfilled and utility installation continued.

All trucks hauling >50 ppm PCB contaminated waste were sent to EQ and trucks hauling <50 ppm PCB contaminated waste were sent to Turnkey.

### 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  $0.000 \text{ mg/m}^3$  to  $0.274 \text{ mg/m}^3$  during the day.

The logging unit compiled average dust concentrations every fifteen minutes throughout the day (Tag #17 and #18). It should be noted that the readings from the datalogger unit differed significantly from the manual logger. It appeared as though the datalogger was not detecting dust particles) and after attempts to recalibrate it was turned off at 11:15 AM. The fifteen-minute averages ranged between approximately  $0 \text{ mg/m}^3$  -  $0.032 \text{ mg/m}^3$ . The overall average concentration for the day was  $0.008 \text{ mg/m}^3$ .

pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 16

Number of logged points: 8

Start time and date: 12:39:40 07-Jul

Elapsed time: 02:00:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 1.394 mg/m<sup>3</sup>

Time at maximum: 13:55:08 Jul 07

Max STEL Concentration: 0.057 mg/m<sup>3</sup>

Time at max STEL: 14:18:40 Jul 07

Overall Avg Conc: 0.005 mg/m<sup>3</sup>

Logged Data:

| Point | Date  | Time     | Avg.(mg/m <sup>3</sup> ) |
|-------|-------|----------|--------------------------|
| 1     | 7-Jul | 12:54:40 | 0.015                    |
| 2     | 7-Jul | 13:09:40 | 0.081                    |
| 3     | 7-Jul | 13:24:40 | 0.02                     |
| 4     | 7-Jul | 13:39:40 | 0.015                    |
| 5     | 7-Jul | 13:54:40 | 0.03                     |
| 6     | 7-Jul | 14:09:40 | 0.064                    |
| 7     | 7-Jul | 14:24:40 | 0.055                    |
| 8     | 7-Jul | 14:39:40 | 0.021                    |

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pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 17

Number of logged points: 11

Start time and date: 06:53:30 08-Jul

Elapsed time: 02:45:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 0.464 mg/m<sup>3</sup>

Time at maximum: 08:17:25 Jul 08

Max STEL Concentration: 0.038 mg/m<sup>3</sup>

Time at max STEL: 07:50:30 Jul 08

Overall Avg Conc: 0.008 mg/m<sup>3</sup>

Logged Data:

| Point | Date  | Time     | Avg.(mg/m <sup>3</sup> ) |
|-------|-------|----------|--------------------------|
| 1     | 8-Jul | 07:08:30 | 0.026                    |
| 2     | 8-Jul | 07:23:30 | 0.015                    |
| 3     | 8-Jul | 07:38:30 | 0.022                    |
| 4     | 8-Jul | 07:53:30 | 0.032                    |
| 5     | 8-Jul | 08:08:30 | 0.009                    |
| 6     | 8-Jul | 08:23:30 | 0.025                    |
| 7     | 8-Jul | 08:38:30 | 0.001                    |
| 8     | 8-Jul | 08:53:30 | 0                        |
| 9     | 8-Jul | 09:08:30 | 0.002                    |
| 10    | 8-Jul | 09:23:30 | 0                        |
| 11    | 8-Jul | 09:38:30 | 0                        |

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pDR-1000 S/N: 00000  
User ID: 04701  
Tag Number: 18  
Number of logged points: 5  
Start time and date: 09:56:31 08-Jul  
Elapsed time: 01:15:00  
Logging period (sec): 900  
Calibration Factor (%): 100  
Max Display Concentration: 0.449 mg/m<sup>3</sup>  
Time at maximum: 10:24:10 Jul 08  
Max STEL Concentration: 0.017 mg/m<sup>3</sup>  
Time at max STEL: 10:24:31 Jul 08  
Overall Avg Conc: 0.001 mg/m<sup>3</sup>

Logged Data:

| Point | Date  | Time     | Avg.(mg/m <sup>3</sup> ) |
|-------|-------|----------|--------------------------|
| 1     | 8-Jul | 10:11:31 | 0.009                    |
| 2     | 8-Jul | 10:26:31 | 0.016                    |
| 3     | 8-Jul | 10:41:31 | 0.006                    |
| 4     | 8-Jul | 10:56:31 | 0.001                    |
| 5     | 8-Jul | 11:11:31 | 0                        |

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

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## Daily Field Notes and Dust Monitoring

**Date:** July 9, 2004

**Field Personnel:** Barbara Markley, BETA Group, Inc.

**Time on Site:** 6:35-14:15

**Weather:** AM- partly sunny, foggy, mid 60s      PM- hot, low 80s

**Wind:** AM- light and variable      PM- variable

### Summary of Activities Performed

WES Construction activities included the load out of PCB contaminated waste <50ppm from quadrants Q16 (east portion), Q15, and Q14. A total of eight (8) trucks were loaded with waste (<50 ppm) and each truck was properly lined and decontaminated prior to departure. Portions of the excavated quadrants were lined with separation fabric, backfilled and compacted in lifts and then drain and sewer lines were added. Dewatering started at approximately 9 AM and continued throughout the work day. Near the end of the work day, WES was waiting on the delivery of manholes and utility vaults.

All trucks hauling <50 ppm PCB contaminated waste were sent to Turnkey.

### 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/m<sup>3</sup> to 0.664 mg/m<sup>3</sup> during the day. It should be noted that the high dust reading occurred during the compaction of clean backfill material within the utility corridor.

The logging unit compiled average dust concentrations every fifteen minutes throughout the day (Tag #19). It should be noted that the readings from the datalogger unit differed significantly from the manual logger. It appeared as though the datalogger was not detecting dust particles) and after attempts to recalibrate it was turned off at 11:15 AM. The fifteen-minute averages ranged between approximately 0.015 mg/m<sup>3</sup>- 0.057 mg/m<sup>3</sup>. The overall average concentration for the day was 0.023 mg/m<sup>3</sup>.

pDR-1000 S/N: 00000  
User ID: 04701  
Tag Number: 19  
Number of logged points: 28  
Start time and date: 06:51:28 09-Jul  
Elapsed time: 07:00:00  
Logging period (sec): 900  
Calibration Factor (%): 100  
Max Display Concentration: 0.510 mg/m<sup>3</sup>  
Time at maximum: 12:54:26 Jul 09  
Max STEL Concentration: 0.057 mg/m<sup>3</sup>  
Time at max STEL: 07:06:58 Jul 09  
Overall Avg Conc: 0.023 mg/m<sup>3</sup>

Logged Data:

| Point | Date  | Time     | Avg.(mg/m <sup>3</sup> ) |
|-------|-------|----------|--------------------------|
| 1     | 9-Jul | 07:06:28 | 0.057                    |
| 2     | 9-Jul | 07:21:28 | 0.036                    |
| 3     | 9-Jul | 07:36:28 | 0.028                    |
| 4     | 9-Jul | 07:51:28 | 0.023                    |
| 5     | 9-Jul | 08:06:28 | 0.021                    |
| 6     | 9-Jul | 08:21:28 | 0.019                    |
| 7     | 9-Jul | 08:36:28 | 0.019                    |
| 8     | 9-Jul | 08:51:28 | 0.017                    |
| 9     | 9-Jul | 09:06:28 | 0.018                    |
| 10    | 9-Jul | 09:21:28 | 0.019                    |
| 11    | 9-Jul | 09:36:28 | 0.021                    |
| 12    | 9-Jul | 09:51:28 | 0.022                    |
| 13    | 9-Jul | 10:06:28 | 0.023                    |
| 14    | 9-Jul | 10:21:28 | 0.024                    |
| 15    | 9-Jul | 10:36:28 | 0.019                    |
| 16    | 9-Jul | 10:51:28 | 0.016                    |
| 17    | 9-Jul | 11:06:28 | 0.015                    |
| 18    | 9-Jul | 11:21:28 | 0.015                    |
| 19    | 9-Jul | 11:36:28 | 0.022                    |
| 20    | 9-Jul | 11:51:28 | 0.024                    |
| 21    | 9-Jul | 12:06:28 | 0.025                    |
| 22    | 9-Jul | 12:21:28 | 0.018                    |
| 23    | 9-Jul | 12:36:28 | 0.034                    |
| 24    | 9-Jul | 12:51:28 | 0.041                    |
| 25    | 9-Jul | 13:06:28 | 0.03                     |
| 26    | 9-Jul | 13:21:28 | 0.024                    |
| 27    | 9-Jul | 13:36:28 | 0.029                    |
| 28    | 9-Jul | 13:51:28 | 0.018                    |

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

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## Daily Field Notes and Dust Monitoring

**Date:** July 10, 2004

**Field Personnel:** Jackie Huggins, BETA Group, Inc.

**Time on Site:** 6:30-14:20

**Weather:** AM- sunny, mid 60s

PM- sunny, mid 80s

**Wind:** AM- light from NE

PM- light from NE

### Summary of Activities Performed

WES Construction activities included the load out of PCB contaminated waste <50ppm from quadrants Q14 (west portion), Q13, and Q12. A total of five (5) trucks were loaded with waste (<50 ppm) and each truck was properly lined and decontaminated prior to departure. Portions of the excavated quadrants were lined with separation fabric, backfilled and compacted in lifts and then manhole and drain and sewer lines were added.

All trucks hauling <50 ppm PCB contaminated waste were sent to Turnkey.

### 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 ranged from 0.000 mg/m<sup>3</sup> to 0.340 mg/m<sup>3</sup> during the day. It should be noted that the high dust reading occurred during the compaction of clean backfill material within the utility corridor.

The logging unit compiled average dust concentrations every fifteen minutes throughout the day (Tag #20). The logging unit compiled average dust concentrations every fifteen minutes throughout the day. The fifteen-minute averages ranged between approximately 0.006 mg/m<sup>3</sup>-0.037 mg/m<sup>3</sup>. The overall average concentration for the day was 0.015 mg/m<sup>3</sup>.

pDR-1000 S/N: 00000  
User ID: 04701  
Tag Number: 20  
Number of logged points: 29  
Start time and date: 06:57:21 10-Jul  
Elapsed time: 07:15:00  
Logging period (sec): 900  
Calibration Factor (%): 100  
Max Display Concentration: 2.313 mg/m<sup>3</sup>  
Time at maximum: 14:12:32 Jul 10  
Max STEL Concentration: 0.059 mg/m<sup>3</sup>  
Time at max STEL: 09:07:51 Jul 10  
Overall Avg Conc: 0.016 mg/m<sup>3</sup>

Logged Data:

| Point | Date   | Time     | Avg.(mg/m <sup>3</sup> ) |
|-------|--------|----------|--------------------------|
| 1     | 10-Jul | 07:12:21 | 0.017                    |
| 2     | 10-Jul | 07:27:21 | 0.006                    |
| 3     | 10-Jul | 07:42:21 | 0.006                    |
| 4     | 10-Jul | 07:57:21 | 0.006                    |
| 5     | 10-Jul | 08:12:21 | 0.008                    |
| 6     | 10-Jul | 08:27:21 | -0.009                   |
| 7     | 10-Jul | 08:42:21 | 0.008                    |
| 8     | 10-Jul | 08:57:21 | 0.031                    |
| 9     | 10-Jul | 09:12:21 | 0.037                    |
| 10    | 10-Jul | 09:27:21 | 0.02                     |
| 11    | 10-Jul | 09:42:21 | 0.01                     |
| 12    | 10-Jul | 09:57:21 | 0.01                     |
| 13    | 10-Jul | 10:12:21 | 0.009                    |
| 14    | 10-Jul | 10:27:21 | 0.01                     |
| 15    | 10-Jul | 10:42:21 | 0.015                    |
| 16    | 10-Jul | 10:57:21 | 0.035                    |
| 17    | 10-Jul | 11:12:21 | 0.012                    |
| 18    | 10-Jul | 11:27:21 | 0.014                    |
| 19    | 10-Jul | 11:42:21 | 0.029                    |
| 20    | 10-Jul | 11:57:21 | 0.01                     |
| 21    | 10-Jul | 12:12:21 | 0.022                    |
| 22    | 10-Jul | 12:27:21 | 0.025                    |
| 23    | 10-Jul | 12:42:21 | 0.014                    |
| 24    | 10-Jul | 12:57:21 | 0.019                    |
| 25    | 10-Jul | 13:12:21 | 0.007                    |
| 26    | 10-Jul | 13:27:21 | 0.014                    |
| 27    | 10-Jul | 13:42:21 | 0.016                    |
| 28    | 10-Jul | 13:57:21 | 0.01                     |
| 29    | 10-Jul | 14:12:21 | 0.015                    |

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