



September 22, 2016

Mr. Christopher Bonsignore, P.E.  
Principal Engineer  
Environmental Compliance Section  
Bureau of Engineering and Highway Operations  
State of Connecticut Department of Transportation  
2800 Berlin Turnpike, P.O. Box 317546  
Newington, CT 06131-7546

Attention: Judy Nemecek, P.E. / Robert Reilly

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance  
Agreement No. 04.27-01(15)  
HazMat Inspection – Sign Supports at Seven (7) Sites, I-84, Farmington & Plainville, CT  
ConnDOT Assignment No. 514-5214  
ConnDOT Project No. 173-304  
TRC Project No. 222165.5214.00710

Dear Mr. Bonsignore:

TRC performed a limited survey for hazardous building materials associated with sign support removals at 7 Sites on I-84 in Farmington and Plainville, Connecticut. Results of the survey identified the following on the sign support surfaces at the following Sign Support Nos.:

- Detectable amounts of lead in paint were confirmed present at Sign Support Nos. 21688 & 21693.
- No detectable amounts of lead in paint were confirmed present at Sign Support Nos. 21558, 21571, 21573, 21574 & 21575.
- Projected paint waste debris was characterized as non-hazardous, non-RCRA waste at Sign Support Nos. 21688 & 21693. Since no detectable amounts of lead were identified at Sign Support Nos. 21558, 21571, 21573, 21574 & 21575, any paint waste debris generated would be considered non-hazardous, non-RCRA waste.
- Black tar coating at the base (pole, cross support & base plate) of Sign Support No. 21573 and tan caulking beneath baseplates at Sign Support Nos. 21558, 21571, 21573, 21574, 21575, 21688 & 21693 were found to contain asbestos.
- No pigeon/bird guano accumulations were identified at any of the Sites.

Laboratory data, Site No. information and inspector notes are attached.

If you have any questions, please call TRC at (860) 298-9692.

Very Truly Yours,

TRC

Handwritten signature of Erik R. Plimpton.

Erik R. Plimpton, P.E., CHMM, CMC  
Vice President - Program Manager

Handwritten signature of Edmund J. Burke.

Edmund J. Burke, P.E.  
Engineer-in-Charge



**Lead Based Paint Measurement Summary Table**

Device(s): Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer  
 Site: Sign Supports - Eighteen (7) Sites, Plainville & Farmington  
 Project #: 222165.5214.0710  
 Date(s): 9/13/2016  
 Inspector: Bryce Aston (Lead Inspector/RA #001838)

| Number | Interior/<br>Exterior | Location   | Sign Support No. | Structure     | Feature | Material | Color | Condition | Reading<br>(mg/cm2) | Precision<br>(mg/cm2) | Depth<br>Index | Duration<br>(sec) | Date/Time       |
|--------|-----------------------|------------|------------------|---------------|---------|----------|-------|-----------|---------------------|-----------------------|----------------|-------------------|-----------------|
| 1      |                       |            |                  |               |         |          |       |           |                     |                       |                | 112.2             | 9/13/2016 8:49  |
| 2      |                       |            | Self-Calibration |               |         |          |       |           | 0.0                 | 0.0                   | 1.0            | 3.3               | 9/13/2016 8:53  |
| 3      |                       |            | 0.0 calibration  |               |         |          |       |           | 0.3                 | 0.0                   | 1.0            | 8.5               | 9/13/2016 8:53  |
| 4      |                       |            | 0.3 calibration  |               |         |          |       |           | 1.5                 | 0.1                   | 1.1            | 6.0               | 9/13/2016 8:54  |
| 5      | Exterior              | Farmington | 1.6 calibration  | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 4.8            | 5.0               | 9/13/2016 9:14  |
| 6      |                       |            | 84 21693         |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 7      |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 8      |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 9      | Exterior              | Farmington | 84 21693         | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.1                   | 4.9            | 4.3               | 9/13/2016 9:21  |
| 10     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 11     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 12     | Exterior              | Farmington | 84 21693         | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 2.3               | 9/13/2016 9:23  |
| 13     | Exterior              | Farmington | 84 21693         | Baseplate     |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 1.5               | 9/13/2016 9:23  |
| 14     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 15     | Exterior              | Farmington | 84 21693         | Cross Support |         | Metal    | Grey  | Intact    | 0.0                 | 0.1                   | 2.6            | 1.8               | 9/13/2016 9:25  |
| 16     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 17     | Exterior              | Farmington | 84 21693         | Cross Support |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 1.5               | 9/13/2016 9:26  |
| 18     | Exterior              | Plainville | 84 21558         | Cross Support |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 4.0               | 9/13/2016 9:51  |
| 19     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 20     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 21     | Exterior              | Plainville | 84 21558         | Cross Support |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.3            | 3.0               | 9/13/2016 9:52  |
| 22     | Exterior              | Plainville | 84 21558         | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.2            | 3.3               | 9/13/2016 9:52  |
| 23     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 24     | Exterior              | Plainville | 84 21558         | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 1.8               | 9/13/2016 9:53  |
| 25     | Exterior              | Plainville | 84 21558         | Base          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 3.3               | 9/13/2016 9:53  |
| 26     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 27     | Exterior              | Farmington | 84 21571         | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 3.2               | 9/13/2016 10:19 |
| 28     | Exterior              | Farmington | 84 21571         | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 2.2            | 3.3               | 9/13/2016 10:19 |
| 29     | Exterior              | Farmington | 84 21571         | Cross Support |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 3.3               | 9/13/2016 10:20 |
| 30     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 31     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 32     | Exterior              | Farmington | 84 21573         | Cross Support |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.2            | 1.8               | 9/13/2016 10:38 |
| 33     | Exterior              | Farmington | 84 21573         | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 6.3               | 9/13/2016 10:38 |
| 34     | Exterior              | Farmington | 84 21573         | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.2            | 1.8               | 9/13/2016 10:38 |
| 35     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 36     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 37     | Exterior              | Farmington | 84 21574         | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.7            | 1.7               | 9/13/2016 10:58 |
| 38     | Exterior              | Farmington | 84 21574         | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 2.0               | 9/13/2016 10:59 |
| 39     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 40     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 41     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 42     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |

Lead paint includes paint found to contain any detectable amount of lead by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).



**Lead Based Paint Measurement Summary Table**

Device(s): Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer  
 Site: Sign Supports - Eighteen (7) Sites, Plainville & Farmington  
 Project #: 222165.5214.0710  
 Date(s): 9/13/2016  
 Inspector: Bryce Aston (Lead Inspector/RA #001838)

| Number | Interior/<br>Exterior | Location   | Sign Support No. | Structure     | Feature | Material | Color | Condition | Reading<br>(mg/cm2) | Precision<br>(mg/cm2) | Depth<br>Index | Duration<br>(sec) | Date/Time       |
|--------|-----------------------|------------|------------------|---------------|---------|----------|-------|-----------|---------------------|-----------------------|----------------|-------------------|-----------------|
| 43     | Exterior              | Farmington | i84 21575        | Base          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 3.3               | 9/13/2016 11:17 |
| 44     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 45     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 46     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 47     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 48     | Exterior              | Farmington | i84 21575        | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.1                   | 2.9            | 2.3               | 9/13/2016 11:19 |
| 49     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 50     | Exterior              | Farmington | i84 21575        | Cross Support |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 2.1            | 2.5               | 9/13/2016 11:20 |
| 51     |                       |            |                  |               | VOID    |          |       |           |                     |                       |                |                   |                 |
| 52     | Exterior              | Farmington | i84 21688        | Cross Support |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.3            | 2.3               | 9/13/2016 12:24 |
| 53     | Exterior              | Farmington | i84 21688        | Cross Support |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 2.3               | 9/13/2016 12:24 |
| 54     | Exterior              | Farmington | i84 21688        | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.1                   | 5.3            | 2.8               | 9/13/2016 12:24 |
| 55     | Exterior              | Farmington | i84 21688        | Pole          |         | Metal    | Grey  | Intact    | 0.0                 | 0.0                   | 1.0            | 3.3               | 9/13/2016 12:25 |
| 56     |                       |            | 3.5 calibration  |               |         | Metal    | Grey  | Intact    | 3.5                 | 0.6                   | 1.3            | 2.5               | 9/13/2016 12:43 |
| 57     |                       |            | 1.6 calibration  |               |         | Metal    | Grey  | Intact    | 1.5                 | 0.1                   | 1.1            | 5.0               | 9/13/2016 12:43 |
| 58     |                       |            | 0.3 calibration  |               |         | Metal    | Grey  | Intact    | 0.3                 | 0.1                   | 1.1            | 5.3               | 9/13/2016 12:43 |

Lead paint includes paint found to contain any detectable amount of lead by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

80 Lupes Drive  
Stratford, CT 06615



Tel: (203) 377-9984  
Fax: (203) 377-9952  
e-mail: cet1@cetlabs.com

Client: Mr. Stephen Arienti  
TRC Environmental Consultants  
21 Griffin Rd., North  
Windsor, CT 06095

# Analytical Report

## CET# 6090328

Report Date: September 16, 2016  
Project: DOT I84  
Project Number: 222165.5214.0710

Connecticut Laboratory Certificate: PH 0116  
Massachusetts laboratory Certificate: M-CT903



New York Certification: 11982  
Rhode Island Certification: 199

CET #: 6090328

Project: DOT I84

Project Number: 222165.5214.0710

**SAMPLE SUMMARY**

The sample(s) were received at 26.1°C.

This report contains analytical data associated with following samples only.

| Sample ID     | Laboratory ID | Matrix     | Collection Date/Time | Receipt Date |
|---------------|---------------|------------|----------------------|--------------|
| 1 Sign 21688  | 6090328-01    | Paint Chip | 9/13/2016 13:47      | 09/14/2016   |
| 3 Sign 21575  | 6090328-02    | Paint Chip | 9/13/2016 12:18      | 09/14/2016   |
| 5 Sign 21573  | 6090328-03    | Paint Chip | 9/13/2016 11:55      | 09/14/2016   |
| 7 Sign 21574  | 6090328-04    | Paint Chip | 9/13/2016 12:06      | 09/14/2016   |
| 9 Sign 21693  | 6090328-05    | Paint Chip | 9/13/2016 10:15      | 09/14/2016   |
| 11 Sign 21558 | 6090328-06    | Paint Chip | 9/13/2016 10:55      | 09/14/2016   |
| 13 Sign 21571 | 6090328-07    | Paint Chip | 9/13/2016 11:20      | 09/14/2016   |

**Analyte: Total Lead [EPA 6010C]**

**Analyst: SS**

**Prep: EPA 3050B**

**Matrix: Paint Chip**

| Laboratory ID | Client Sample ID | Result | RL   | Units | Dilution | Batch   | Prepared   | Date/Time Analyzed | Notes |
|---------------|------------------|--------|------|-------|----------|---------|------------|--------------------|-------|
| 6090328-01    | 1 Sign 21688     | 0.10   | 0.10 | %     | 1        | B611607 | 09/16/2016 | 09/16/2016 15:21   |       |
| 6090328-02    | 3 Sign 21575     | ND     | 0.10 | %     | 1        | B611607 | 09/16/2016 | 09/16/2016 15:25   |       |
| 6090328-03    | 5 Sign 21573     | ND     | 0.10 | %     | 1        | B611607 | 09/16/2016 | 09/16/2016 15:30   |       |
| 6090328-04    | 7 Sign 21574     | ND     | 0.10 | %     | 1        | B611607 | 09/16/2016 | 09/16/2016 15:34   |       |
| 6090328-05    | 9 Sign 21693     | 0.18   | 0.10 | %     | 1        | B611607 | 09/16/2016 | 09/16/2016 15:39   |       |
| 6090328-06    | 11 Sign 21558    | ND     | 0.10 | %     | 1        | B611607 | 09/16/2016 | 09/16/2016 15:43   |       |
| 6090328-07    | 13 Sign 21571    | ND     | 0.10 | %     | 1        | B611607 | 09/16/2016 | 09/16/2016 15:56   |       |

CET #: 6090328

Project: DOT 184

Project Number: 222165.5214.0710

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,



David Ditta  
Laboratory Director

Report Comments:

Sample Result Flags:

E- The result is estimated, above the calibration range.

H- The surrogate recovery is above the control limits.

L- The surrogate recovery is below the control limits.

B- The compound was detected in the laboratory blank.

P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.

D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.

+ - The Surrogate was diluted out.

\*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.

\*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.

\*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.

\*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.

I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at the specified detection limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET #: 6090328  
Project: DOT I84  
Project Number: 222165.5214.0710

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte                   | Certifications |
|---------------------------|----------------|
| <i>EPA 6010C in Solid</i> |                |
| Lead                      | CT             |

Complete Environmental Testing operates under the following certifications and accreditations:

| Code | Description               | Number | Expires    |
|------|---------------------------|--------|------------|
| CT   | Connecticut Public Health | PH0116 | 09/30/2016 |



21 Griffin Road North  
Windsor, Connecticut 06095  
Telephone 860-298-9692

CHAIN OF CUSTODY



6090328

Edition: September 2000  
Supersede Previous Edition

PROJECT NO. 229165-5214  
PROJECT NAME IScy - Farmington/Plainville - 7599HS  
SAMPLERS: (Signature) - Mike Costrobs - 860-817-2413 (Printed)  
Mike Costrobs

| FIELD SAMPLE NUMBER          | DATE    | TIME         | COMP. | GRAB                                    | STATION LOCATION | NO. OF CONTAINERS            |         | REMARKS                                 |  |  |  |
|------------------------------|---------|--------------|-------|---|------------------|------------------------------|---------|---|--|--|--|
|                              |         |              |       |   |                  | Total Pb                     | TELP Pb |   |  |  |  |
| 1                            | 9/13/16 | 1347         |       | X                                       | Sign 216881      | 1                            | X       | Gray Paint                              |  |  |  |
| 2                            |         | 1345         |       | X                                       |                  |                              | X       | only analyze if #1 has detectable lead  |  |  |  |
| 3                            |         | 1218         |       | X                                       | Sign 215751      |                              | X       | Gray Paint                              |  |  |  |
| 4                            |         | 1220         |       | X                                       |                  |                              | X       | only analyze if #3 has detectable lead  |  |  |  |
| 5                            |         | 1155         |       | X                                       | Sign 215731      |                              | X       | Gray Paint                              |  |  |  |
| 6                            |         | 1145         |       | X                                       |                  |                              | X       | only analyze if #5 has detectable lead  |  |  |  |
| 7                            |         | 1206         |       | X                                       | Sign 215741      |                              | X       | Gray Paint                              |  |  |  |
| 8                            |         | 1205         |       | X                                       |                  |                              | X       | only analyze if #7 has detectable lead  |  |  |  |
| 9                            |         | 1015         |       | X                                       | Sign 216931      |                              | X       | Gray Paint                              |  |  |  |
| 10                           |         | 1020         |       | X                                       |                  |                              | X       | only analyze if #9 has detectable lead  |  |  |  |
| 11                           |         | 1055         |       | X                                       | Sign 215581      |                              | X       | Gray Paint                              |  |  |  |
| 12                           |         | 1057         |       | X                                       |                  |                              | X       | only analyze if #11 has detectable lead |  |  |  |
| Relinquished by: (Signature) |         | Date / Time  |       | Received by: (Signature)                |                  | Relinquished by: (Signature) |         | Date / Time                             |  | Received by: (Signature)                                 |  |
| (Printed) Mike Costrobs      |         | 9/13/16 1600 |       | (Printed) Robert Valeriani              |                  | (Printed) Robert Valeriani   |         | 9/14/16 1630                            |  | (Printed) [Signature]                                    |  |
| Relinquished by: (Signature) |         | Date / Time  |       | Received for Laboratory by: (Signature) |                  | Date / Time                  |         | Condition of Sample Acceptable Y _ N _  |  | Remarks  |  |
| (Printed)                    |         |              |       | (Printed)                               |                  |                              |         |   |  | Send Results to Steve Trenti. Sartenti@trcsolutions.com. |  |

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).





21 Griffin Road North  
Windsor, Connecticut 06095  
Telephone 860-298-9892

CHAIN OF CUSTODY



6090328

Edition: September 2000  
Supersede Previous Editions

PROJECT NO. 222165, S214, I84-Farmingska/Plainville - 7519HS  
0210  
PROJECT NAME DOT  
SAMPLERS: (Signature) *[Signature]* (Printed) 860-817-2415  
Mike Kostrobsky

TERS

24HCTAT

| FIELD SAMPLE NUMBER | DATE    | TIME | COMP. | GRAB | STATION LOCATION | NO. OF CONTAINERS |         | REMARKS  |
|---------------------|---------|------|-------|------|------------------|-------------------|---------|--|
|                     |         |      |       |      |                  | Total / Pb        | TRCP Pb |  |
| 13                  | 9/13/16 | 1120 | X     | X    | SIGN 215711      | 1                 | X       | Gray paint<br>only negative, #13<br>has detectable lead. |
| 14                  |         | 1120 | X     | X    |                  |                   |         |  |

| Relinquished by: (Signature) | Date / Time  | Received by: (Signature)                | Date / Time | Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Date / Time | Remarks    |
|------------------------------|--------------|---|-------------|------------------------------|-------------|--------------------------|-------------|------------|
| <i>[Signature]</i>           | 9/13/16 1600 | <i>[Signature]</i> 9-14-16 1330         |             | <i>[Signature]</i>           | 9-14-16     | <i>[Signature]</i>       |             |            |
| <i>[Signature]</i>           |              | <i>[Signature]</i>                      |             | <i>[Signature]</i>           |             | <i>[Signature]</i>       |             |            |
| Relinquished by: (Signature) | Date / Time  | Received for Laboratory by: (Signature) | Date / Time | Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Date / Time | Remarks    |
| Mike Kostrobsky              |              | Robert Penney                           |             | Robert Penney                |             |                          |             | 11 Same 11 |
| (Printed)                    | (Printed)    | (Printed)                               | (Printed)   | (Printed)                    | (Printed)   | (Printed)                | (Printed)   | (Printed)  |

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

80 Lupes Drive  
Stratford, CT 06615



Tel: (203) 377-9984  
Fax: (203) 377-9952  
e-mail: cet1@cetlabs.com

Client: Mr. Stephen Arienti  
TRC Environmental Consultants  
21 Griffin Rd., North  
Windsor, CT 06095

# Analytical Report

## CET# 6090408

Report Date: September 20, 2016  
Project: DOT I84  
Project Number: 222165.5214.0710

Connecticut Laboratory Certificate: PH 0116  
Massachusetts laboratory Certificate: M-CT903



New York Certification: 11982  
Rhode Island Certification: 199

CET #: 6090408

Project: DOT I84

Project Number: 222165.5214.0710

**SAMPLE SUMMARY**

The sample(s) were received at 26.1°C.

This report contains analytical data associated with following samples only.

| Sample ID     | Laboratory ID | Matrix     | Collection Date/Time | Receipt Date |
|---------------|---------------|------------|----------------------|--------------|
| 2 Sign 21688  | 6090408-01    | Paint Chip | 9/13/2016 13:45      | 09/14/2016   |
| 10 Sign 21693 | 6090408-02    | Paint Chip | 9/13/2016 10:20      | 09/14/2016   |

**Analyte: TCLP Lead [EPA 6020A]**

**Analyst: SS**

**Prep: EPA 3005A-1311**

**Matrix: Extract**

| Laboratory ID | Client Sample ID | Result       | RL    | Units | Dilution | Batch   | Prepared   | Date/Time Analyzed | Notes |
|---------------|------------------|--------------|-------|-------|----------|---------|------------|--------------------|-------|
| 6090408-01    | 2 Sign 21688     | ND           | 0.013 | mg/L  | 1        | B612021 | 09/20/2016 | 09/20/2016 16:08   |       |
| 6090408-02    | 10 Sign 21693    | <b>0.013</b> | 0.013 | mg/L  | 1        | B612021 | 09/20/2016 | 09/20/2016 16:12   |       |

CET #: 6090408

Project: DOT I84

Project Number: 222165.5214.0710

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,



David Ditta  
Laboratory Director

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at the specified detection limit  
All analyses were performed in house unless a Reference Laboratory is listed.  
Samples will be disposed of 30 days after the report date.

CET # : 6090408  
Project: DOT I84  
Project Number: 222165.5214.0710

**CERTIFICATIONS**

**Certified Analyses included in this Report**

| <b>Analyte</b> | <b>Certifications</b> |
|----------------|-----------------------|
|----------------|-----------------------|

**No certified Analyses included in this Report**

Complete Environmental Testing operates under the following certifications and accreditations:

| <b>Code</b> | <b>Description</b> | <b>Number</b> | <b>Expires</b> |
|-------------|--------------------|---------------|----------------|
|-------------|--------------------|---------------|----------------|



21 Griffin Road North  
Windsor, Connecticut 06095  
Telephone 860-298-9692

CHAIN OF CUSTODY



6090408

Edition: September 2005  
Supersede Previous Edition

PROJECT NO. 22165-5214  
PROJECT NAME DOT  
F84-Farmington/Plainville - 759HS  
SAMPLERS: (Signature) - 860-817-2413  
Mike Kostub

STATION LOCATION  
SIGN 21688  
SIGN 21575  
SIGN 21573  
SIGN 21574  
SIGN 21693  
SIGN 21558

DATE  
9/13/16  
1345  
1218  
1200  
1155  
1145  
1206  
1205  
1015  
1020  
1055  
1057

COMP  
X

GRAB

NO. OF CONTAINERS  
Total 16  
TCL 96

FIELD SAMPLE NUMBER  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12

REMARKS  
Gray paint  
only Analyze if #1 has detectable lead  
Gray paint  
only Analyze if #3 has detectable lead  
Gray paint  
only Analyze if #5 has detectable lead  
Gray paint  
only Analyze if #7 has detectable lead  
Gray paint  
only Analyze if #9 has detectable lead  
Gray paint  
only Analyze if #11 has detectable lead

Relinquished by: (Signature)  
Mike Kostub

Date / Time  
9/13/16 1600

Received by: (Signature)  
Robert Valcarlos

Date / Time  
9/14/16 1635

Received by: (Signature)  
Robert Valcarlos

Date / Time  
9/26/16

Remarks  
Send results to Steve Arment.  
SArment1@trcsolutions.com

Condition of Sample Acceptable Y \_ N \_  
Comments



21 GRIFFIN ROAD NORTH  
WINDSOR, CONNECTICUT 06095  
TELEPHONE (860) 298-9692  
FAX (860) 298-6380

## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009  
Supersedes Previous Edition

LAB ID #. 49032

| PROJECT NUMBER   | PROJECT NAME                               |      | INSPECTOR        |      | PARAMETERS             |                                     |  |                  | TURNAROUND TIME             |                                      |      |      |     |      |      |      |      |
|------------------|--|------|------------------|------|------------------------|-------------------------------------|--|------------------|-----------------------------|--------------------------------------|------|------|-----|------|------|------|------|
|                  | DATE                                       | TIME | TYPE             | GRAB | SAMPLE LOCATION        | PLM EPA 600/R93/116 (POSITIVE STOP) | PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP) | ANALYZE BY LAYER | POINT COUNT (IF >1% & <10%) | TEM NY NOB 198.4 (IF PLM SERIES NEG) | PLM: | TEM: | 8hr | 24hr | 48hr | 3day | 5day |
| 222165.5214.0710 | DOT-1 84 Sign posts-Plainville, Farmington |      | Michael Kostruba |      |                        |                                     |  |                  |                             |                                      |      |      |     |      |      |      |      |
| 1                | 9-13-16                                    | 1116 | X                |      | Sign 21571-south side  | X                                   |  |                  |                             |                                      |      | X    |     |      |      |      |      |
| 2                | 9-13-16                                    | 1118 | X                |      | Sign 21571- south side | X                                   |  | X                |                             |                                      |      | X    |     |      |      |      |      |
| 3                | 9-13-16                                    | 1216 | X                |      | Sign 21575- south side | X                                   |  |                  |                             |                                      |      | X    |     |      |      |      |      |
| 4                | 9-13-16                                    | 1220 | X                |      | Sign 21575- south side | X                                   |  |                  |                             |                                      |      | X    |     |      |      |      |      |
| 5                | 9-13-16                                    | 1148 | X                |      | Sign 21573- south side | X                                   |  |                  |                             |                                      |      | X    |     |      |      |      |      |
| 6                | 9-13-16                                    | 1145 | X                |      | Sign 21573- south side | X                                   |  |                  |                             |                                      |      | X    |     |      |      |      |      |
| 7                | 9-13-16                                    | 1209 | X                |      | Sign 21574- south side | X                                   |  |                  |                             |                                      |      | X    |     |      |      |      |      |
| 8                | 9-13-16                                    | 1210 | X                |      | Sign 21574- south side | X                                   |  |                  |                             |                                      |      | X    |     |      |      |      |      |
| 9                | 9-13-16                                    | 1100 | X                |      | Sign 21558- south side | X                                   |  |                  |                             |                                      |      | X    |     |      |      |      |      |
| 10               | 9-13-16                                    | 1050 | X                |      | Sign 21558 south side  | X                                   |  |                  |                             |                                      |      | X    |     |      |      |      |      |
| 11               | 9-13-16                                    | 1011 | X                |      | Sign 21693-north side  | X                                   |  |                  |                             |                                      |      | X    |     |      |      |      |      |

|   |                  |   |                  |   |                                       |
|---|------------------|---|------------------|---|---------------------------------------|
| Relinquished by: (Signature)<br>  | Date:<br>9-13-16 | Received by: (Signature)<br>Kathleen Williamson<br> | Date:<br>9/13/16 | Relinquished by: (Signature)<br>(Printed) | Received by: (Signature)<br>(Printed) |
| (Printed)<br>Michael Kostruba   | Time:<br>1515    | (Printed)<br>                                       | Time:<br>1575    | (Printed)                                 | (Printed)                             |
| Send results to Steve Arienti   |                  |   |                  |   |                                       |
| Condition of Samples:<br>Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Comments: |                  |   |                  |   |                                       |



## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

21 GRIFFIN ROAD NORTH  
WINDSOR, CONNECTICUT 06095  
TELEPHONE (860) 298-9692  
FAX (860) 298-6380

LAB ID #. 47032

|   |             |  |             |                                    |   |  |  |                               |  |   |                               |                               |                               |             |
|---|-------------|--|-------------|------------------------------------|---|--|--|-------------------------------|--|---|-------------------------------|-------------------------------|-------------------------------|-------------|
| <b>PROJECT NUMBER</b><br>222165.5214.0710 |             | <b>PROJECT NAME</b><br>DOT-I 84 Sign posts-Plainville,<br>Farmington |             | <b>PARAMETERS</b>                  |   | <b>TURNAROUND TIME</b>                       |  |                               |  |   |                               |                               |                               |             |
| <b>SIGNATURE</b><br>                      |             | <b>INSPECTOR</b><br>Michael Kostruba                                 |             |                                    |   | PLM: <input checked="" type="checkbox"/> 8hr | <input type="checkbox"/> 24hr  | <input type="checkbox"/> 48hr | <input type="checkbox"/> 3day                | TEM: <input checked="" type="checkbox"/> 24hr | <input type="checkbox"/> 48hr | <input type="checkbox"/> 3day | <input type="checkbox"/> 5day |             |
| <b>FIELD SAMPLE NUMBER</b>                | <b>DATE</b> | <b>TIME</b>  | <b>TYPE</b> | <b>SAMPLE LOCATION</b>             |   | <b>PLM EPA 600/R93/116 (POSITIVE STOP)</b>   | <b>PLM EPA 600/R93/116 (W/gravimetric reduction) (POSITIVE STOP)</b> | <b>ANALYZE BY LAYER</b>       | <b>POINT COUNT (IF &gt;1% &amp; &lt;10%)</b> | <b>TEM NY NOB 198.4 (IF PLM SERIES NEG)</b>   | <b>MATERIAL</b>               |                               |                               |             |
|   |             |  |             |                                    |   |  |  |                               |  |   |                               |                               | <b>COMP</b>                   | <b>GRAB</b> |
| 12  | 9-13-16     | 1014   | X           | Sign 21693-north side              | X | X  | X  |                               |  |   |                               |                               |                               |             |
| 13  | 9-13-16     | 1332   | X           | Sign 21688-north side              | X | X  | X  |                               |  |   |                               |                               |                               |             |
| 14  | 9-13-16     | 1347   | X           | Sign 21688-north side              | X | X  | X  |                               |  |   |                               |                               |                               |             |
| 15  | 9-13-16     | 1200   | X           | Sign 21573-baseplate-south side    | X | X  | X  |                               |  |   |                               |                               |                               |             |
| 16  | 9-13-16     | 1202   | X           | Sign 21573-cross support-southside | X | X  | X  |                               |  |   |                               |                               |                               |             |

|   |                         |   |                         |
|---|-------------------------|---|-------------------------|
| <b>Relinquished by: (Signature)</b><br>   | <b>Date:</b><br>9-13-16 | <b>Received by: (Signature)</b><br>     | <b>Date:</b><br>9/13/16 |
| <b>(Printed)</b><br>Michael Kostruba  | <b>Time:</b><br>1515    | <b>(Printed)</b><br>Kathleen Williamson | <b>Time:</b><br>1575    |
| <b>Relinquished by: (Signature)</b>   |                         | <b>Received by: (Signature)</b>         |                         |
| <b>(Printed)</b>  |                         | <b>(Printed)</b>                        |                         |
| <b>Condition of Samples:</b><br>Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                         | <b>Comments:</b>                        |                         |
| <b>Send results to Steve Arienti</b>  |                         |   |                         |
| Page 2 of 2   |                         |   |                         |



**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: CT Department of Transportation

Lab Log #: 0049032  
 Project #: 222165.5214.0710  
 Date Received: 09/13/2016  
 Date Analyzed: 09/13/2016

Site: I-84 Sign posts, Plainville & Farmington, CT

**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|-------|------------|---------------|-----------|------------------------|------------|---------------|
| 1          | Tan   | Yes        | No            | --        | ---                    | 3%         | Chrysotile    |
| 2          | --    | --         | --            | --        | --                     | NA/PS      | --            |
| 3          | Tan   | Yes        | No            | --        | ---                    | 3%         | Chrysotile    |
| 4          | --    | --         | --            | --        | --                     | NA/PS      | --            |
| 5          | Tan   | Yes        | No            | --        | ---                    | 5%         | Chrysotile    |
| 6          | --    | --         | --            | --        | --                     | NA/PS      | --            |
| 7          | Tan   | Yes        | No            | --        | ---                    | 5%         | Chrysotile    |
| 8          | --    | --         | --            | --        | --                     | NA/PS      | --            |
| 9          | Tan   | Yes        | No            | --        | ---                    | 5%         | Chrysotile    |
| 10         | --    | --         | --            | --        | --                     | NA/PS      | --            |
| 11         | Tan   | Yes        | No            | --        | ---                    | 5%         | Chrysotile    |
| 12         | --    | --         | --            | --        | --                     | NA/PS      | --            |
| 13         | Tan   | Yes        | No            | --        | ---                    | 5%         | Chrysotile    |
| 14         | --    | --         | --            | --        | --                     | NA/PS      | --            |
| 15         | Black | Yes        | No            | --        | 10% cellulose          | 5%         | Chrysotile    |
| 16         | --    | --         | --            | --        | --                     | NA/PS      | --            |

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0    AIHA-LAP,LLC #100122    CT #PH-0426    ME LA-0075, LB-0071    MA #AA000052    NY #10980    WV#LT000411  
 RI #AAL-007    TX #300354    VT #AL014538 LA#05011    VA #3333 000283    AZ #A20944    HI #I-09-004    NJ #CT004    CA #2907  
 CO# AL-15020    PHIL# 461    PA#68-03387



**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|-------|------------|---------------|-----------|------------------------|------------|---------------|
|------------|-------|------------|---------------|-----------|------------------------|------------|---------------|

Reporting limit- asbestos present at 1%  
 ND - asbestos was not detected  
 Trace - asbestos was observed at level of less than 1%  
 NA/PS - Not Analyzed / Positive Stop  
 SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2017. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2016. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: K. Williamson      Reviewed by: Cathryn Lemire      Date Issued  
 Kathleen Williamson, Laboratory Manager      Cathryn Lemire, Approved Signatory      09/13/2016

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0    AIHA-LAP,LLC #100122    CT #PH-0426    ME LA-0075, LB-0071    MA #AA000052    NY #10980    WV#LT000411  
 RI #AAL-007    TX #300354    VT #AL014538 LA#05011    VA #3333 000283    AZ #A20944    HI #L-09-004    NJ #CT004    CA #2907  
 CO# AL-15020    PHIL# 461    PA#68-03387



SUBJECT IS4 signs - Plainville  
Farm system

SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

DATE \_\_\_\_\_

BY NK/BA

CHK'D \_\_\_\_\_

21693 - painted - gray paint only, - caulk/sealant - CI under  
mostly null or 0.0 4 baseplates  
1SF each.

21558 - same ↑

21571 - same ↑

21573 - painted-gray paint only - base plate and bottom cross support  
has black for coatings - CI also on bottom 1' of poles only on South side  
CI - North + South (4) baseplates  
- Sporadic Silicone fillings in Holes

21574 - painted Gray only - CI under base plates on South side - North  
side too dense to verify  
Sporadic Silicone fillings Holes

21575 - Same as 21574

21688 - painted - Gray paint only. - CI under baseplates.  
South side too dense to verify.

Submitted #2? 9/12/16 from RR/JG

**PROJECT 171-304 LIST OF OVERHEAD SIGN SUPPORT REMOVAL SITES**

(type of coating on existing supports as stated in bridge safety inspection report)

| SITE NO. | TOWN/CITY  | ROUTE   | MILEAGE | SUPPORT NO. | TYPE OF COATING | YEAR BUILT |
|----------|------------|---------|---------|-------------|-----------------|------------|
| 1        | PLAINVILLE | 84 E.B. | 48.66   | 21558       | PAINT           | UNKNOWN    |
| 2        | FARMINGTON | 84 E.B. | 53.57   | 21571       | PAINT           | UNKNOWN    |
| 3        | FARMINGTON | 84 E.B. | 54.29   | 21573       | PAINT           | UNKNOWN    |
| 4        | FARMINGTON | 84 E.B. | 52.78   | 21574       | PAINT           | UNKNOWN    |
| 5        | FARMINGTON | 84 E.B. | 54.96   | 21575       | PAINT           | UNKNOWN    |
| 6        | FARMINGTON | 84 W.B. | 54.86   | 21688       | PAINT           | UNKNOWN    |
| 7        | FARMINGTON | 84 W.B. | 51.63   | 21693       | PAINT           | UNKNOWN    |

