



LAB CHRONICLE

|          |              |            |                                        |
|----------|--------------|------------|----------------------------------------|
| OrderID: | P4871        | OrderDate: | 11/15/2024 9:09:00 AM                  |
| Client:  | AECOM        | Project:   | Meeker Ave Plumes Superfund Site RI FS |
| Contact: | Amit Haryani | Location:  | M11                                    |

| LabID    | ClientID       | Matrix | Test     | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|----------------|--------|----------|--------|-------------|-----------|-----------|----------|
| P4871-01 | WC-10-A-202411 | TCLP   | TCLP BNA | 8270E  | 11/13/24    | 11/18/24  | 11/18/24  | 11/14/24 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** P4871  
**Client:** AECOM

| Sample ID            | Client ID | Matrix | Parameter | Concentration | C    | MDL | RDL | Units |
|----------------------|-----------|--------|-----------|---------------|------|-----|-----|-------|
| Client ID :          |           |        |           | 0.000         |      |     |     |       |
| Total Svoc :         |           |        |           |               | 0.00 |     |     |       |
| Total Concentration: |           |        |           |               | 0.00 |     |     |       |



# SAMPLE DATA

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: | 11/13/24 |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  | 11/14/24 |      |
| Client Sample ID:  | WC-10-A-202411                         |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | P4871-01                               |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 100                                    | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3541                                 |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140460.D        | 1         | 11/18/24 08:35 | 11/18/24 18:06 | PB165052      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|------------------------|--------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                        |        |           |          |            |          |
| 110-86-1                  | Pyridine               | 15.5   | UQ        | 15.5     | 50.0       | ug/L     |
| 106-46-7                  | 1,4-Dichlorobenzene    | 8.40   | U         | 8.40     | 50.0       | ug/L     |
| 95-48-7                   | 2-Methylphenol         | 11.3   | U         | 11.3     | 50.0       | ug/L     |
| 65794-96-9                | 3+4-Methylphenols      | 11.5   | U         | 11.5     | 100        | ug/L     |
| 67-72-1                   | Hexachloroethane       | 10.1   | U         | 10.1     | 50.0       | ug/L     |
| 98-95-3                   | Nitrobenzene           | 12.7   | U         | 12.7     | 50.0       | ug/L     |
| 87-68-3                   | Hexachlorobutadiene    | 12.7   | U         | 12.7     | 50.0       | ug/L     |
| 88-06-2                   | 2,4,6-Trichlorophenol  | 8.90   | U         | 8.90     | 50.0       | ug/L     |
| 95-95-4                   | 2,4,5-Trichlorophenol  | 10.1   | U         | 10.1     | 50.0       | ug/L     |
| 121-14-2                  | 2,4-Dinitrotoluene     | 15.2   | U         | 15.2     | 50.0       | ug/L     |
| 118-74-1                  | Hexachlorobenzene      | 11.4   | U         | 11.4     | 50.0       | ug/L     |
| 87-86-5                   | Pentachlorophenol      | 18.5   | U         | 18.5     | 100        | ug/L     |
| <b>SURROGATES</b>         |                        |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol         | 129    |           | 10 - 139 | 86%        | SPK: 150 |
| 13127-88-3                | Phenol-d6              | 106    |           | 10 - 134 | 71%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5        | 97.8   |           | 49 - 133 | 98%        | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl       | 123    |           | 52 - 132 | 123%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol   | 195    |           | 44 - 137 | 130%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14          | 122    |           | 48 - 125 | 122%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 133000 | 6.875     |          |            |          |
| 1146-65-2                 | Naphthalene-d8         | 502000 | 8.151     |          |            |          |
| 15067-26-2                | Acenaphthene-d10       | 224000 | 9.904     |          |            |          |
| 1517-22-2                 | Phenanthrene-d10       | 534000 | 11.398    |          |            |          |
| 1719-03-5                 | Chrysene-d12           | 279000 | 14.039    |          |            |          |
| 1520-96-3                 | Perylene-d12           | 12400  | 15.533    |          |            |          |

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: | 11/13/24 |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  | 11/14/24 |      |
| Client Sample ID:  | WC-10-A-202411                         |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | P4871-01                               |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 100                                    | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3541                                 |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140460.D        | 1         | 11/18/24 08:35 | 11/18/24 18:06 | PB165052      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: | 11/18/24 |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  | 11/18/24 |      |
| Client Sample ID:  | PB165019TB                             |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | PB165019TB                             |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 100                                    | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3541                                 |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140464.D        | 1         | 11/18/24 08:35 | 11/19/24 11:00 | PB165052      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|------------------------|--------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                        |        |           |          |            |          |
| 110-86-1                  | Pyridine               | 15.5   | UQ        | 15.5     | 50.0       | ug/L     |
| 106-46-7                  | 1,4-Dichlorobenzene    | 8.40   | U         | 8.40     | 50.0       | ug/L     |
| 95-48-7                   | 2-Methylphenol         | 11.3   | U         | 11.3     | 50.0       | ug/L     |
| 65794-96-9                | 3+4-Methylphenols      | 11.5   | U         | 11.5     | 100        | ug/L     |
| 67-72-1                   | Hexachloroethane       | 10.1   | U         | 10.1     | 50.0       | ug/L     |
| 98-95-3                   | Nitrobenzene           | 12.7   | U         | 12.7     | 50.0       | ug/L     |
| 87-68-3                   | Hexachlorobutadiene    | 12.7   | U         | 12.7     | 50.0       | ug/L     |
| 88-06-2                   | 2,4,6-Trichlorophenol  | 8.90   | U         | 8.90     | 50.0       | ug/L     |
| 95-95-4                   | 2,4,5-Trichlorophenol  | 10.1   | U         | 10.1     | 50.0       | ug/L     |
| 121-14-2                  | 2,4-Dinitrotoluene     | 15.2   | U         | 15.2     | 50.0       | ug/L     |
| 118-74-1                  | Hexachlorobenzene      | 11.4   | U         | 11.4     | 50.0       | ug/L     |
| 87-86-5                   | Pentachlorophenol      | 18.5   | U         | 18.5     | 100        | ug/L     |
| <b>SURROGATES</b>         |                        |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol         | 126    |           | 10 - 139 | 84%        | SPK: 150 |
| 13127-88-3                | Phenol-d6              | 121    |           | 10 - 134 | 81%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5        | 86.6   |           | 49 - 133 | 87%        | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl       | 87.6   |           | 52 - 132 | 88%        | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol   | 124    |           | 44 - 137 | 83%        | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14          | 85.9   |           | 48 - 125 | 86%        | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 144000 | 6.869     |          |            |          |
| 1146-65-2                 | Naphthalene-d8         | 545000 | 8.151     |          |            |          |
| 15067-26-2                | Acenaphthene-d10       | 303000 | 9.904     |          |            |          |
| 1517-22-2                 | Phenanthrene-d10       | 577000 | 11.398    |          |            |          |
| 1719-03-5                 | Chrysene-d12           | 370000 | 14.057    |          |            |          |
| 1520-96-3                 | Perylene-d12           | 302000 | 15.574    |          |            |          |

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: | 11/18/24 |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  | 11/18/24 |      |
| Client Sample ID:  | PB165019TB                             |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | PB165019TB                             |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 100                                    | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3541                                 |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140464.D        | 1         | 11/18/24 08:35 | 11/19/24 11:00 | PB165052      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

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E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



# QC SUMMARY

## Surrogate Summary

SW-846

SDG No.: P4871

Client: AECOM

Analytical Method: 8270E

| Lab Sample ID | Client ID      | Parameter            | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|----------------|----------------------|-------------|--------------|--------------|------|------------|------|
|               |                |                      |             |              |              |      | Low        | High |
| P4848-02MS    | TP-1MS         | 2-Fluorophenol       | 150         | 140          | 93           |      | 10         | 139  |
|               |                | Phenol-d6            | 150         | 136          | 91           |      | 10         | 134  |
|               |                | Nitrobenzene-d5      | 100         | 101          | 101          |      | 49         | 133  |
|               |                | 2-Fluorobiphenyl     | 100         | 99.0         | 99           |      | 52         | 132  |
|               |                | 2,4,6-Tribromophenol | 150         | 159          | 106          |      | 44         | 137  |
|               |                | Terphenyl-d14        | 100         | 110          | 110          |      | 48         | 125  |
| P4848-02MSD   | TP-1MSD        | 2-Fluorophenol       | 150         | 144          | 96           |      | 10         | 139  |
|               |                | Phenol-d6            | 150         | 138          | 92           |      | 10         | 134  |
|               |                | Nitrobenzene-d5      | 100         | 104          | 104          |      | 49         | 133  |
|               |                | 2-Fluorobiphenyl     | 100         | 100          | 100          |      | 52         | 132  |
|               |                | 2,4,6-Tribromophenol | 150         | 159          | 106          |      | 44         | 137  |
|               |                | Terphenyl-d14        | 100         | 113          | 113          |      | 48         | 125  |
| P4871-01      | WC-10-A-202411 | 2-Fluorophenol       | 150         | 129          | 86           |      | 10         | 139  |
|               |                | Phenol-d6            | 150         | 106          | 71           |      | 10         | 134  |
|               |                | Nitrobenzene-d5      | 100         | 97.8         | 98           |      | 49         | 133  |
|               |                | 2-Fluorobiphenyl     | 100         | 123          | 123          |      | 52         | 132  |
|               |                | 2,4,6-Tribromophenol | 150         | 195          | 130          |      | 44         | 137  |
|               |                | Terphenyl-d14        | 100         | 122          | 122          |      | 48         | 125  |
| PB165019TB    | PB165019TB     | 2-Fluorophenol       | 150         | 126          | 84           |      | 10         | 139  |
|               |                | Phenol-d6            | 150         | 121          | 81           |      | 10         | 134  |
|               |                | Nitrobenzene-d5      | 100         | 86.6         | 87           |      | 49         | 133  |
|               |                | 2-Fluorobiphenyl     | 100         | 87.6         | 88           |      | 52         | 132  |
|               |                | 2,4,6-Tribromophenol | 150         | 124          | 83           |      | 44         | 137  |
|               |                | Terphenyl-d14        | 100         | 85.9         | 86           |      | 48         | 125  |
| PB165052BL    | PB165052BL     | 2-Fluorophenol       | 150         | 138          | 92           |      | 10         | 139  |
|               |                | Phenol-d6            | 150         | 132          | 88           |      | 10         | 134  |
|               |                | Nitrobenzene-d5      | 100         | 92.2         | 92           |      | 49         | 133  |
|               |                | 2-Fluorobiphenyl     | 100         | 92.9         | 93           |      | 52         | 132  |
|               |                | 2,4,6-Tribromophenol | 150         | 133          | 88           |      | 44         | 137  |
|               |                | Terphenyl-d14        | 100         | 102          | 102          |      | 48         | 125  |
| PB165052BS    | PB165052BS     | 2-Fluorophenol       | 150         | 136          | 91           |      | 10         | 139  |
|               |                | Phenol-d6            | 150         | 133          | 89           |      | 10         | 134  |
|               |                | Nitrobenzene-d5      | 100         | 90.2         | 90           |      | 49         | 133  |
|               |                | 2-Fluorobiphenyl     | 100         | 91.1         | 91           |      | 52         | 132  |
|               |                | 2,4,6-Tribromophenol | 150         | 143          | 95           |      | 44         | 137  |
|               |                | Terphenyl-d14        | 100         | 89.0         | 89           |      | 48         | 125  |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** P4871

**Client:** AECOM

**Analytical Method:** SW8270E

| Parameter             | Spike             | Sample<br>Result         | Result        | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual      | Low               | Limits<br>High | RPD |
|-----------------------|-------------------|--------------------------|---------------|-------|-----|-------------|-----|------------------|-------------------|----------------|-----|
| <b>Lab Sample ID:</b> | <b>P4848-02MS</b> | <b>Client Sample ID:</b> | <b>TP-1MS</b> |       |     |             |     | <b>DataFile:</b> | <b>BF140465.D</b> |                |     |
| Pyridine              | 500               | 0                        | 320           | ug/L  | 64  |             |     |                  | 10                | 109            |     |
| 1,4-Dichlorobenzene   | 500               | 0                        | 400           | ug/L  | 80  |             |     |                  | 55                | 125            |     |
| 2-Methylphenol        | 500               | 0                        | 500           | ug/L  | 100 |             |     |                  | 37                | 126            |     |
| 3+4-Methylphenols     | 500               | 0                        | 510           | ug/L  | 102 |             |     |                  | 31                | 127            |     |
| Hexachloroethane      | 500               | 0                        | 400           | ug/L  | 80  |             |     |                  | 49                | 110            |     |
| Nitrobenzene          | 500               | 0                        | 460           | ug/L  | 92  |             |     |                  | 62                | 112            |     |
| Hexachlorobutadiene   | 500               | 0                        | 430           | ug/L  | 86  |             |     |                  | 52                | 125            |     |
| 2,4,6-Trichlorophenol | 500               | 0                        | 530           | ug/L  | 106 |             |     |                  | 78                | 112            |     |
| 2,4,5-Trichlorophenol | 500               | 0                        | 520           | ug/L  | 104 |             |     |                  | 71                | 111            |     |
| 2,4-Dinitrotoluene    | 500               | 0                        | 530           | ug/L  | 106 |             |     |                  | 50                | 142            |     |
| Hexachlorobenzene     | 500               | 0                        | 530           | ug/L  | 106 |             |     |                  | 72                | 115            |     |
| Pentachlorophenol     | 1000              | 0                        | 1100          | ug/L  | 110 |             |     |                  | 25                | 139            |     |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** P4871

**Client:** AECOM

**Analytical Method:** SW8270E

| Parameter             | Spike              | Sample Result            | Result         | Units | Rec | Rec Qual | RPD | RPD Qual         | Low               | Limits High | RPD |
|-----------------------|--------------------|--------------------------|----------------|-------|-----|----------|-----|------------------|-------------------|-------------|-----|
| <b>Lab Sample ID:</b> | <b>P4848-02MSD</b> | <b>Client Sample ID:</b> | <b>TP-1MSD</b> |       |     |          |     | <b>DataFile:</b> | <b>BF140466.D</b> |             |     |
| Pyridine              | 500                | 0                        | 320            | ug/L  | 64  | 0        |     |                  | 10                | 109         | 20  |
| 1,4-Dichlorobenzene   | 500                | 0                        | 410            | ug/L  | 82  | 2        |     |                  | 55                | 125         | 20  |
| 2-Methylphenol        | 500                | 0                        | 510            | ug/L  | 102 | 2        |     |                  | 37                | 126         | 20  |
| 3+4-Methylphenols     | 500                | 0                        | 520            | ug/L  | 104 | 2        |     |                  | 31                | 127         | 20  |
| Hexachloroethane      | 500                | 0                        | 410            | ug/L  | 82  | 2        |     |                  | 49                | 110         | 20  |
| Nitrobenzene          | 500                | 0                        | 460            | ug/L  | 92  | 0        |     |                  | 62                | 112         | 20  |
| Hexachlorobutadiene   | 500                | 0                        | 440            | ug/L  | 88  | 2        |     |                  | 52                | 125         | 20  |
| 2,4,6-Trichlorophenol | 500                | 0                        | 550            | ug/L  | 110 | 4        |     |                  | 78                | 112         | 20  |
| 2,4,5-Trichlorophenol | 500                | 0                        | 520            | ug/L  | 104 | 0        |     |                  | 71                | 111         | 20  |
| 2,4-Dinitrotoluene    | 500                | 0                        | 540            | ug/L  | 108 | 2        |     |                  | 50                | 142         | 20  |
| Hexachlorobenzene     | 500                | 0                        | 540            | ug/L  | 108 | 2        |     |                  | 72                | 115         | 20  |
| Pentachlorophenol     | 1000               | 0                        | 1100           | ug/L  | 110 | 0        |     |                  | 25                | 139         | 20  |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4871

Client: AECOM

Analytical Method: 8270E DataFile: BF140596.D

| Lab Sample ID | Parameter             | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Limits |      |     |
|---------------|-----------------------|-------|--------|------|-----|-----|------|------|--------|------|-----|
|               |                       |       |        |      |     |     |      | Qual | Low    | High | RPD |
| PB165052BS    | Pyridine              | 50    | 49.3   | ug/L | 99  |     | *    |      | 29     | 97   |     |
|               | 1,4-Dichlorobenzene   | 50    | 46.6   | ug/L | 93  |     |      |      | 76     | 103  |     |
|               | 2-Methylphenol        | 50    | 49.4   | ug/L | 99  |     |      |      | 69     | 109  |     |
|               | 3+4-Methylphenols     | 50    | 49.2   | ug/L | 98  |     |      |      | 67     | 106  |     |
|               | Hexachloroethane      | 50    | 46.3   | ug/L | 93  |     |      |      | 76     | 118  |     |
|               | Nitrobenzene          | 50    | 44.6   | ug/L | 89  |     |      |      | 58     | 106  |     |
|               | Hexachlorobutadiene   | 50    | 44.9   | ug/L | 90  |     |      |      | 69     | 101  |     |
|               | 2,4,6-Trichlorophenol | 50    | 48.0   | ug/L | 96  |     |      |      | 61     | 110  |     |
|               | 2,4,5-Trichlorophenol | 50    | 47.2   | ug/L | 94  |     |      |      | 70     | 106  |     |
|               | 2,4-Dinitrotoluene    | 50    | 48.7   | ug/L | 97  |     |      |      | 60     | 115  |     |
|               | Hexachlorobenzene     | 50    | 46.6   | ug/L | 93  |     |      |      | 73     | 106  |     |
|               | Pentachlorophenol     | 100   | 100    | ug/L | 100 |     |      |      | 47     | 114  |     |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165052BL

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM Case No.: P4871

SAS No.: P4871 SDG NO.: P4871

Lab File ID: BF140605.D

Lab Sample ID: PB165052BL

Instrument ID: BNA\_F

Date Extracted: 11/18/2024

Matrix: (soil/water) water

Date Analyzed: 11/25/2024

Level: (low/med) LOW

Time Analyzed: 16:17

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| WC-10-A-202411    | P4871-01         | BF140460.D     | 11/18/2024       |
| TP-1MS            | P4848-02MS       | BF140465.D     | 11/19/2024       |
| PB165019TB        | PB165019TB       | BF140464.D     | 11/19/2024       |
| TP-1MSD           | P4848-02MSD      | BF140466.D     | 11/19/2024       |
| PB165052BS        | PB165052BS       | BF140596.D     | 11/25/2024       |

COMMENTS: \_\_\_\_\_

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM

SAS No.: P4871 SDG NO.: P4871

Lab File ID: BF140331.D

DFTPP Injection Date: 11/13/2024

Instrument ID: BNA\_F

DFTPP Injection Time: 08:35

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 36.9                 |
| 68  | Less than 2.0% of mass 69          | 0.7 ( 1.8 ) 1        |
| 69  | Mass 69 relative abundance         | 38                   |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.6 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 48.6                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.4                  |
| 275 | 10.0 - 60.0% of mass 198           | 28.3                 |
| 365 | Greater than 1% of mass 198        | 3.5                  |
| 441 | Present, but less than mass 443    | 14                   |
| 442 | Greater than 50% of mass 198       | 88.6                 |
| 443 | 15.0 - 24.0% of mass 442           | 16.7 ( 18.8 ) 2      |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC2.5        | SSTDICC2.5       | BF140332.D     | 11/13/2024       | 09:01            |
| SSTDICC005        | SSTDICC005       | BF140333.D     | 11/13/2024       | 09:27            |
| SSTDICC010        | SSTDICC010       | BF140334.D     | 11/13/2024       | 09:53            |
| SSTDICC020        | SSTDICC020       | BF140335.D     | 11/13/2024       | 10:29            |
| SSTDICC050        | SSTDICC050       | BF140337.D     | 11/13/2024       | 11:21            |
| SSTDICC060        | SSTDICC060       | BF140338.D     | 11/13/2024       | 11:47            |
| SSTDICC080        | SSTDICC080       | BF140339.D     | 11/13/2024       | 12:13            |
| SSTDICCC040       | SSTDICCC040      | BF140340.D     | 11/13/2024       | 12:48            |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM

SAS No.: P4871

SDG NO.: P4871

Lab File ID: BF140455.D

DFTPP Injection Date: 11/18/2024

Instrument ID: BNA\_F

DFTPP Injection Time: 15:48

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 33.7                 |
| 68  | Less than 2.0% of mass 69          | 0.7 ( 1.9 ) 1        |
| 69  | Mass 69 relative abundance         | 34.7                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 45.8                 |
| 197 | Less than 2.0% of mass 198         | 0.2                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.4                  |
| 275 | 10.0 - 60.0% of mass 198           | 27.9                 |
| 365 | Greater than 1% of mass 198        | 3.5                  |
| 441 | Present, but less than mass 443    | 16.1                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 18.2 ( 18.2 ) 2      |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDCCC040        | SSTDCCC040       | BF140456.D     | 11/18/2024       | 16:14            |
| WC-10-A-202411    | P4871-01         | BF140460.D     | 11/18/2024       | 18:06            |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM

SAS No.: P4871 SDG NO.: P4871

Lab File ID: BF140462.D

DFTPP Injection Date: 11/19/2024

Instrument ID: BNA\_F

DFTPP Injection Time: 09:32

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 37.8                 |
| 68  | Less than 2.0% of mass 69          | 0.7 ( 1.9 ) 1        |
| 69  | Mass 69 relative abundance         | 38.6                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 49.9                 |
| 197 | Less than 2.0% of mass 198         | 0.8                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.9                  |
| 275 | 10.0 - 60.0% of mass 198           | 27.6                 |
| 365 | Greater than 1% of mass 198        | 3.4                  |
| 441 | Present, but less than mass 443    | 14.7                 |
| 442 | Greater than 50% of mass 198       | 91.9                 |
| 443 | 15.0 - 24.0% of mass 442           | 17 ( 18.5 ) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDCCC040        | SSTDCCC040       | BF140463.D     | 11/19/2024       | 10:34            |
| PB165019TB        | PB165019TB       | BF140464.D     | 11/19/2024       | 11:00            |
| TP-1MS            | P4848-02MS       | BF140465.D     | 11/19/2024       | 11:36            |
| TP-1MSD           | P4848-02MSD      | BF140466.D     | 11/19/2024       | 12:02            |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM

SAS No.: P4871 SDG NO.: P4871

Lab File ID: BF140526.D

DFTPP Injection Date: 11/21/2024

Instrument ID: BNA\_F

DFTPP Injection Time: 10:17

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 33.3                 |
| 68  | Less than 2.0% of mass 69          | 0.6 ( 1.8 ) 1        |
| 69  | Mass 69 relative abundance         | 35.5                 |
| 70  | Less than 2.0% of mass 69          | 0.3 ( 0.7 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 48                   |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.8                  |
| 275 | 10.0 - 60.0% of mass 198           | 29.2                 |
| 365 | Greater than 1% of mass 198        | 3.8                  |
| 441 | Present, but less than mass 443    | 15.7                 |
| 442 | Greater than 50% of mass 198       | 99.8                 |
| 443 | 15.0 - 24.0% of mass 442           | 18.1 ( 18.1 ) 2      |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC2.5        | SSTDICC2.5       | BF140528.D     | 11/21/2024       | 11:13            |
| SSTDICC005        | SSTDICC005       | BF140529.D     | 11/21/2024       | 11:39            |
| SSTDICC010        | SSTDICC010       | BF140530.D     | 11/21/2024       | 12:05            |
| SSTDICC020        | SSTDICC020       | BF140531.D     | 11/21/2024       | 12:32            |
| SSTDICCC040       | SSTDICCC040      | BF140532.D     | 11/21/2024       | 12:58            |
| SSTDICC050        | SSTDICC050       | BF140533.D     | 11/21/2024       | 13:25            |
| SSTDICC060        | SSTDICC060       | BF140534.D     | 11/21/2024       | 13:51            |
| SSTDICC080        | SSTDICC080       | BF140535.D     | 11/21/2024       | 14:18            |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM

SAS No.: P4871

SDG NO.: P4871

Lab File ID: BF140589.D

DFTPP Injection Date: 11/25/2024

Instrument ID: BNA\_F

DFTPP Injection Time: 09:07

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 34.8                 |
| 68  | Less than 2.0% of mass 69          | 0.7 ( 1.9 ) 1        |
| 69  | Mass 69 relative abundance         | 36.7                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.6 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 48.2                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.4                  |
| 275 | 10.0 - 60.0% of mass 198           | 28.6                 |
| 365 | Greater than 1% of mass 198        | 3.7                  |
| 441 | Present, but less than mass 443    | 15.5                 |
| 442 | Greater than 50% of mass 198       | 98.2                 |
| 443 | 15.0 - 24.0% of mass 442           | 18.5 ( 18.9 ) 2      |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDCCC040        | SSTDCCC040       | BF140590.D     | 11/25/2024       | 09:33            |
| PB165052BS        | PB165052BS       | BF140596.D     | 11/25/2024       | 12:09            |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM

SAS No.: P4871

SDG NO.: P4871

Lab File ID: BF140603.D

DFTPP Injection Date: 11/25/2024

Instrument ID: BNA\_F

DFTPP Injection Time: 15:23

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 32.9                 |
| 68  | Less than 2.0% of mass 69          | 0.6 ( 1.8 ) 1        |
| 69  | Mass 69 relative abundance         | 34.8                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 46.5                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.9                  |
| 275 | 10.0 - 60.0% of mass 198           | 28                   |
| 365 | Greater than 1% of mass 198        | 3.8                  |
| 441 | Present, but less than mass 443    | 15.3                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 18.4 ( 18.4 ) 2      |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDCCC040        | SSTDCCC040       | BF140604.D     | 11/25/2024       | 15:49            |
| PB165052BL        | PB165052BL       | BF140605.D     | 11/25/2024       | 16:17            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140456.D Time Analyzed: 16:14

Instrument ID: BNA\_F GC Column: DB-UI ID: 0.18 (mm)

|                   | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #  | IS3 (ANT)<br>AREA # | RT #  |
|-------------------|---------------------|-------|---------------------|-------|---------------------|-------|
| 12 HOUR STD       | 136246              | 6.875 | 509583              | 8.16  | 277583              | 9.91  |
| UPPER LIMIT       | 272492              | 7.375 | 1019170             | 8.657 | 555166              | 10.41 |
| LOWER LIMIT       | 68123               | 6.375 | 254792              | 7.657 | 138792              | 9.41  |
| EPA SAMPLE NO.    |                     |       |                     |       |                     |       |
| 01 WC-10-A-202411 | 133008              | 6.88  | 502386              | 8.15  | 224448              | 9.90  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140456.D Time Analyzed: 16:14

Instrument ID: BNA\_F GC Column: DB-UI ID: 0.18 (mm)

|                   | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|-------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD       | 499315              | 11.398 | 237967              | 14.045 | 262467              | 15.533 |
| UPPER LIMIT       | 998630              | 11.898 | 475934              | 14.545 | 524934              | 16.033 |
| LOWER LIMIT       | 249658              | 10.898 | 118984              | 13.545 | 131234              | 15.033 |
| EPA SAMPLE NO.    |                     |        |                     |        |                     |        |
| 01 WC-10-A-202411 | 533842              | 11.40  | 279485              | 14.04  | 12426 *             | 15.53  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/19/2024

Lab File ID: BF140463.D Time Analyzed: 10:34

Instrument ID: BNA\_F GC Column: DB-UI ID: 0.18 (mm)

|                | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #  | IS3 (ANT)<br>AREA # | RT #  |
|----------------|---------------------|-------|---------------------|-------|---------------------|-------|
| 12 HOUR STD    | 137275              | 6.875 | 502770              | 8.16  | 278131              | 9.91  |
| UPPER LIMIT    | 274550              | 7.375 | 1005540             | 8.657 | 556262              | 10.41 |
| LOWER LIMIT    | 68637.5             | 6.375 | 251385              | 7.657 | 139066              | 9.41  |
| EPA SAMPLE NO. |                     |       |                     |       |                     |       |
| 01 PB165019TB  | 144350              | 6.87  | 545389              | 8.15  | 303191              | 9.90  |
| 02 TP-1MS      | 148608              | 6.88  | 566127              | 8.15  | 313272              | 9.91  |
| 03 TP-1MSD     | 147727              | 6.88  | 561678              | 8.15  | 311833              | 9.91  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/19/2024

Lab File ID: BF140463.D Time Analyzed: 10:34

Instrument ID: BNA\_F GC Column: DB-UI ID: 0.18 (mm)

|                | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|----------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD    | 524892              | 11.398 | 344697              | 14.069 | 292973              | 15.592 |
| UPPER LIMIT    | 1049780             | 11.898 | 689394              | 14.569 | 585946              | 16.092 |
| LOWER LIMIT    | 262446              | 10.898 | 172349              | 13.569 | 146487              | 15.092 |
| EPA SAMPLE NO. |                     |        |                     |        |                     |        |
| 01 PB165019TB  | 576588              | 11.40  | 369743              | 14.06  | 301857              | 15.57  |
| 02 TP-1MS      | 585294              | 11.40  | 347810              | 14.06  | 308234              | 15.57  |
| 03 TP-1MSD     | 573421              | 11.40  | 332365              | 14.06  | 278980              | 15.58  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140590.D Time Analyzed: 09:33

Instrument ID: BNA\_F GC Column: DB-UI ID: 0.18 (mm)

|                | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #  | IS3 (ANT)<br>AREA # | RT #  |
|----------------|---------------------|-------|---------------------|-------|---------------------|-------|
| 12 HOUR STD    | 105131              | 6.869 | 390145              | 8.15  | 212616              | 9.91  |
| UPPER LIMIT    | 210262              | 7.369 | 780290              | 8.651 | 425232              | 10.41 |
| LOWER LIMIT    | 52565.5             | 6.369 | 195073              | 7.651 | 106308              | 9.41  |
| EPA SAMPLE NO. |                     |       |                     |       |                     |       |
| 01 PB165052BS  | 94726               | 6.87  | 366046              | 8.15  | 205183              | 9.91  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140590.D Time Analyzed: 09:33

Instrument ID: BNA\_F GC Column: DB-UI ID: 0.18 (mm)

01

|                | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|----------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD    | 399326              | 11.398 | 244297              | 14.051 | 211888              | 15.545 |
| UPPER LIMIT    | 798652              | 11.898 | 488594              | 14.551 | 423776              | 16.045 |
| LOWER LIMIT    | 199663              | 10.898 | 122149              | 13.551 | 105944              | 15.045 |
| EPA SAMPLE NO. |                     |        |                     |        |                     |        |
| PB165052BS     | 398573              | 11.40  | 258584              | 14.06  | 208347              | 15.56  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

Instrument ID: BNA\_F GC Column: DB-UI ID: 0.18 (mm)

|                | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #  | IS3 (ANT)<br>AREA # | RT #  |
|----------------|---------------------|-------|---------------------|-------|---------------------|-------|
| 12 HOUR STD    | 106607              | 6.869 | 393427              | 8.15  | 218835              | 9.91  |
| UPPER LIMIT    | 213214              | 7.369 | 786854              | 8.651 | 437670              | 10.41 |
| LOWER LIMIT    | 53303.5             | 6.369 | 196714              | 7.651 | 109418              | 9.41  |
| EPA SAMPLE NO. |                     |       |                     |       |                     |       |
| 01 PB165052BL  | 100879              | 6.87  | 377922              | 8.15  | 213827              | 9.90  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

Instrument ID: BNA\_F GC Column: DB-UI ID: 0.18 (mm)

|                | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|----------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD    | 396344              | 11.398 | 217927              | 14.051 | 192376              | 15.551 |
| UPPER LIMIT    | 792688              | 11.898 | 435854              | 14.551 | 384752              | 16.051 |
| LOWER LIMIT    | 198172              | 10.898 | 108964              | 13.551 | 96188               | 15.051 |
| EPA SAMPLE NO. |                     |        |                     |        |                     |        |
| 01 PB165052BL  | 407609              | 11.40  | 220442              | 14.05  | 187220              | 15.55  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.



# QC SAMPLE DATA

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: |          |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  |          |      |
| Client Sample ID:  | PB165052BL                             |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | PB165052BL                             |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 1000                                   | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3510C                                |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140605.D        | 1         | 11/18/24 08:35 | 11/25/24 16:17 | PB165052      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|------------------------|--------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                        |        |           |          |            |          |
| 110-86-1                  | Pyridine               | 1.60   | U         | 1.60     | 5.00       | ug/L     |
| 106-46-7                  | 1,4-Dichlorobenzene    | 0.84   | U         | 0.84     | 5.00       | ug/L     |
| 95-48-7                   | 2-Methylphenol         | 1.10   | U         | 1.10     | 5.00       | ug/L     |
| 65794-96-9                | 3+4-Methylphenols      | 1.20   | U         | 1.20     | 10.0       | ug/L     |
| 67-72-1                   | Hexachloroethane       | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 98-95-3                   | Nitrobenzene           | 1.30   | U         | 1.30     | 5.00       | ug/L     |
| 87-68-3                   | Hexachlorobutadiene    | 1.30   | U         | 1.30     | 5.00       | ug/L     |
| 88-06-2                   | 2,4,6-Trichlorophenol  | 0.89   | U         | 0.89     | 5.00       | ug/L     |
| 95-95-4                   | 2,4,5-Trichlorophenol  | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 121-14-2                  | 2,4-Dinitrotoluene     | 1.50   | U         | 1.50     | 5.00       | ug/L     |
| 118-74-1                  | Hexachlorobenzene      | 1.10   | U         | 1.10     | 5.00       | ug/L     |
| 87-86-5                   | Pentachlorophenol      | 1.90   | U         | 1.90     | 10.0       | ug/L     |
| <b>SURROGATES</b>         |                        |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol         | 138    |           | 10 - 139 | 92%        | SPK: 150 |
| 13127-88-3                | Phenol-d6              | 132    |           | 10 - 134 | 88%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5        | 92.2   |           | 49 - 133 | 92%        | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl       | 92.9   |           | 52 - 132 | 93%        | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol   | 133    |           | 44 - 137 | 88%        | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14          | 102    |           | 48 - 125 | 102%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 101000 | 6.869     |          |            |          |
| 1146-65-2                 | Naphthalene-d8         | 378000 | 8.151     |          |            |          |
| 15067-26-2                | Acenaphthene-d10       | 214000 | 9.904     |          |            |          |
| 1517-22-2                 | Phenanthrene-d10       | 408000 | 11.398    |          |            |          |
| 1719-03-5                 | Chrysene-d12           | 220000 | 14.045    |          |            |          |
| 1520-96-3                 | Perylene-d12           | 187000 | 15.545    |          |            |          |

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: |          |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  |          |      |
| Client Sample ID:  | PB165052BL                             |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | PB165052BL                             |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 1000                                   | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3510C                                |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140605.D        | 1         | 11/18/24 08:35 | 11/25/24 16:17 | PB165052      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: |          |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  |          |      |
| Client Sample ID:  | PB165052BS                             |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | PB165052BS                             |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 1000                                   | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3510C                                |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140596.D        | 1         | 11/18/24 08:35 | 11/25/24 12:09 | PB165052      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|------------------------|--------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                        |        |           |          |            |          |
| 110-86-1                  | Pyridine               | 49.3   |           | 1.60     | 5.00       | ug/L     |
| 106-46-7                  | 1,4-Dichlorobenzene    | 46.6   |           | 0.84     | 5.00       | ug/L     |
| 95-48-7                   | 2-Methylphenol         | 49.4   |           | 1.10     | 5.00       | ug/L     |
| 65794-96-9                | 3+4-Methylphenols      | 49.2   |           | 1.20     | 10.0       | ug/L     |
| 67-72-1                   | Hexachloroethane       | 46.3   |           | 1.00     | 5.00       | ug/L     |
| 98-95-3                   | Nitrobenzene           | 44.6   |           | 1.30     | 5.00       | ug/L     |
| 87-68-3                   | Hexachlorobutadiene    | 44.9   |           | 1.30     | 5.00       | ug/L     |
| 88-06-2                   | 2,4,6-Trichlorophenol  | 48.0   |           | 0.89     | 5.00       | ug/L     |
| 95-95-4                   | 2,4,5-Trichlorophenol  | 47.2   |           | 1.00     | 5.00       | ug/L     |
| 121-14-2                  | 2,4-Dinitrotoluene     | 48.7   |           | 1.50     | 5.00       | ug/L     |
| 118-74-1                  | Hexachlorobenzene      | 46.6   |           | 1.10     | 5.00       | ug/L     |
| 87-86-5                   | Pentachlorophenol      | 100    | E         | 1.90     | 10.0       | ug/L     |
| <b>SURROGATES</b>         |                        |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol         | 136    |           | 10 - 139 | 91%        | SPK: 150 |
| 13127-88-3                | Phenol-d6              | 133    |           | 10 - 134 | 89%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5        | 90.2   |           | 49 - 133 | 90%        | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl       | 91.1   |           | 52 - 132 | 91%        | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol   | 143    |           | 44 - 137 | 95%        | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14          | 89.0   |           | 48 - 125 | 89%        | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 94700  |           | 6.869    |            |          |
| 1146-65-2                 | Naphthalene-d8         | 366000 |           | 8.151    |            |          |
| 15067-26-2                | Acenaphthene-d10       | 205000 |           | 9.91     |            |          |
| 1517-22-2                 | Phenanthrene-d10       | 399000 |           | 11.398   |            |          |
| 1719-03-5                 | Chrysene-d12           | 259000 |           | 14.057   |            |          |
| 1520-96-3                 | Perylene-d12           | 208000 |           | 15.556   |            |          |

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: |          |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  |          |      |
| Client Sample ID:  | PB165052BS                             |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | PB165052BS                             |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 1000                                   | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3510C                                |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140596.D        | 1         | 11/18/24 08:35 | 11/25/24 12:09 | PB165052      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: | 11/14/24 |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  | 11/14/24 |      |
| Client Sample ID:  | TP-1MS                                 |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | P4848-02MS                             |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 100                                    | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3510C                                |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140465.D        | 1         | 11/18/24 08:35 | 11/19/24 11:36 | PB165052      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|------------------------|--------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                        |        |           |          |            |          |
| 110-86-1                  | Pyridine               | 320    |           | 15.5     | 50.0       | ug/L     |
| 106-46-7                  | 1,4-Dichlorobenzene    | 400    |           | 8.40     | 50.0       | ug/L     |
| 95-48-7                   | 2-Methylphenol         | 500    |           | 11.3     | 50.0       | ug/L     |
| 65794-96-9                | 3+4-Methylphenols      | 510    |           | 11.5     | 100        | ug/L     |
| 67-72-1                   | Hexachloroethane       | 400    |           | 10.1     | 50.0       | ug/L     |
| 98-95-3                   | Nitrobenzene           | 460    |           | 12.7     | 50.0       | ug/L     |
| 87-68-3                   | Hexachlorobutadiene    | 430    |           | 12.7     | 50.0       | ug/L     |
| 88-06-2                   | 2,4,6-Trichlorophenol  | 530    |           | 8.90     | 50.0       | ug/L     |
| 95-95-4                   | 2,4,5-Trichlorophenol  | 520    |           | 10.1     | 50.0       | ug/L     |
| 121-14-2                  | 2,4-Dinitrotoluene     | 530    |           | 15.2     | 50.0       | ug/L     |
| 118-74-1                  | Hexachlorobenzene      | 530    |           | 11.4     | 50.0       | ug/L     |
| 87-86-5                   | Pentachlorophenol      | 1100   | E         | 18.5     | 100        | ug/L     |
| <b>SURROGATES</b>         |                        |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol         | 140    |           | 10 - 139 | 93%        | SPK: 150 |
| 13127-88-3                | Phenol-d6              | 136    |           | 10 - 134 | 91%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5        | 101    |           | 49 - 133 | 101%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl       | 99.0   |           | 52 - 132 | 99%        | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol   | 159    |           | 44 - 137 | 106%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14          | 110    |           | 48 - 125 | 110%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 149000 |           | 6.875    |            |          |
| 1146-65-2                 | Naphthalene-d8         | 566000 |           | 8.151    |            |          |
| 15067-26-2                | Acenaphthene-d10       | 313000 |           | 9.91     |            |          |
| 1517-22-2                 | Phenanthrene-d10       | 585000 |           | 11.404   |            |          |
| 1719-03-5                 | Chrysene-d12           | 348000 |           | 14.057   |            |          |
| 1520-96-3                 | Perylene-d12           | 308000 |           | 15.568   |            |          |

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: | 11/14/24 |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  | 11/14/24 |      |
| Client Sample ID:  | TP-1MS                                 |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | P4848-02MS                             |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 100                                    | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3510C                                |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140465.D        | 1         | 11/18/24 08:35 | 11/19/24 11:36 | PB165052      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: | 11/14/24 |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  | 11/14/24 |      |
| Client Sample ID:  | TP-1MSD                                |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | P4848-02MSD                            |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 100                                    | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3510C                                |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140466.D        | 1         | 11/18/24 08:35 | 11/19/24 12:02 | PB165052      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|------------------------|--------|-----------|----------|------------|----------|
| <b>TARGETS</b>            |                        |        |           |          |            |          |
| 110-86-1                  | Pyridine               | 320    |           | 15.5     | 50.0       | ug/L     |
| 106-46-7                  | 1,4-Dichlorobenzene    | 410    |           | 8.40     | 50.0       | ug/L     |
| 95-48-7                   | 2-Methylphenol         | 510    |           | 11.3     | 50.0       | ug/L     |
| 65794-96-9                | 3+4-Methylphenols      | 520    |           | 11.5     | 100        | ug/L     |
| 67-72-1                   | Hexachloroethane       | 410    |           | 10.1     | 50.0       | ug/L     |
| 98-95-3                   | Nitrobenzene           | 460    |           | 12.7     | 50.0       | ug/L     |
| 87-68-3                   | Hexachlorobutadiene    | 440    |           | 12.7     | 50.0       | ug/L     |
| 88-06-2                   | 2,4,6-Trichlorophenol  | 550    |           | 8.90     | 50.0       | ug/L     |
| 95-95-4                   | 2,4,5-Trichlorophenol  | 520    |           | 10.1     | 50.0       | ug/L     |
| 121-14-2                  | 2,4-Dinitrotoluene     | 540    |           | 15.2     | 50.0       | ug/L     |
| 118-74-1                  | Hexachlorobenzene      | 540    |           | 11.4     | 50.0       | ug/L     |
| 87-86-5                   | Pentachlorophenol      | 1100   | E         | 18.5     | 100        | ug/L     |
| <b>SURROGATES</b>         |                        |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol         | 144    |           | 10 - 139 | 96%        | SPK: 150 |
| 13127-88-3                | Phenol-d6              | 138    |           | 10 - 134 | 92%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5        | 104    |           | 49 - 133 | 104%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl       | 100    |           | 52 - 132 | 100%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol   | 159    |           | 44 - 137 | 106%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14          | 113    |           | 48 - 125 | 113%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 148000 |           | 6.875    |            |          |
| 1146-65-2                 | Naphthalene-d8         | 562000 |           | 8.151    |            |          |
| 15067-26-2                | Acenaphthene-d10       | 312000 |           | 9.91     |            |          |
| 1517-22-2                 | Phenanthrene-d10       | 573000 |           | 11.398   |            |          |
| 1719-03-5                 | Chrysene-d12           | 332000 |           | 14.063   |            |          |
| 1520-96-3                 | Perylene-d12           | 279000 |           | 15.58    |            |          |

## Report of Analysis

|                    |                                        |                  |                 |          |      |
|--------------------|----------------------------------------|------------------|-----------------|----------|------|
| Client:            | AECOM                                  |                  | Date Collected: | 11/14/24 |      |
| Project:           | Meeker Ave Plumes Superfund Site RI FS |                  | Date Received:  | 11/14/24 |      |
| Client Sample ID:  | TP-1MSD                                |                  | SDG No.:        | P4871    |      |
| Lab Sample ID:     | P4848-02MSD                            |                  | Matrix:         | TCLP     |      |
| Analytical Method: | SW8270                                 |                  | % Solid:        | 0        |      |
| Sample Wt/Vol:     | 100                                    | Units: mL        | Final Vol:      | 1000     | uL   |
| Soil Aliquot Vol:  |                                        | uL               | Test:           | TCLP BNA |      |
| Extraction Type :  |                                        | Decanted : N     | Level :         | LOW      |      |
| Injection Volume : |                                        | GPC Factor : 1.0 | GPC Cleanup :   | N        | PH : |
| Prep Method :      | SW3510C                                |                  |                 |          |      |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF140466.D        | 1         | 11/18/24 08:35 | 11/19/24 12:02 | PB165052      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



# CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\  
Method File : 8270-BF111324.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Nov 13 14:40:06 2024  
Response Via : Initial Calibration

## Calibration Files

2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF140339.D

| Compound |                       | 2.5            | 5     | 10    | 20    | 40    | 50    | 60    | 80    | Avg   | %RSD |
|----------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| -----    |                       |                |       |       |       |       |       |       |       |       |      |
| 1) I     | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |      |
| 2)       | 1,4-Dioxane           | 0.582          | 0.546 | 0.530 | 0.515 | 0.495 | 0.506 | 0.480 | 0.522 | 6.53  |      |
| 3)       | Pyridine              | 1.430          | 1.343 | 1.323 | 1.316 | 1.189 | 1.237 | 1.147 | 1.283 | 7.61  |      |
| 4)       | n-Nitrosodimet...     | 0.658          | 0.632 | 0.651 | 0.659 | 0.644 | 0.671 | 0.627 | 0.649 | 2.39  |      |
| 5) S     | 2-Fluorophenol        | 1.329          | 1.257 | 1.223 | 1.150 | 1.090 | 1.118 | 1.032 | 1.171 | 8.84  |      |
| 6)       | Aniline               | 1.587          | 1.527 | 1.495 | 1.451 | 1.267 | 1.270 | 1.066 | 1.381 | 13.42 |      |
| 7) S     | Phenol-d6             | 1.773          | 1.691 | 1.643 | 1.605 | 1.483 | 1.507 | 1.407 | 1.587 | 8.09  |      |
| 8)       | 2-Chlorophenol        | 1.397          | 1.349 | 1.332 | 1.263 | 1.176 | 1.184 | 1.106 | 1.258 | 8.49  |      |
| 9)       | Benzaldehyde          | 1.101          | 1.087 | 1.017 | 0.891 | 0.828 | 0.783 | 0.951 | 14.32 |       |      |
| 10) C    | Phenol                | 1.799          | 1.793 | 1.743 | 1.724 | 1.582 | 1.597 | 1.478 | 1.674 | 7.31  |      |
| 11)      | bis(2-Chloroet...     | 1.359          | 1.294 | 1.306 | 1.263 | 1.227 | 1.249 | 1.179 | 1.268 | 4.60  |      |
| 12)      | 1,3-Dichlorobe...     | 1.585          | 1.475 | 1.454 | 1.374 | 1.291 | 1.317 | 1.221 | 1.388 | 8.98  |      |
| 13) C    | 1,4-Dichlorobe...     | 1.590          | 1.534 | 1.486 | 1.391 | 1.306 | 1.326 | 1.221 | 1.408 | 9.49  |      |
| 14)      | 1,2-Dichlorobe...     | 1.494          | 1.429 | 1.398 | 1.294 | 1.212 | 1.214 | 1.108 | 1.307 | 10.63 |      |
| 15)      | Benzyl Alcohol        | 1.172          | 1.193 | 1.199 | 1.211 | 1.100 | 1.108 | 1.020 | 1.143 | 6.10  |      |
| 16)      | 2,2'-oxybis(1-...     | 1.906          | 1.826 | 1.815 | 1.816 | 1.666 | 1.684 | 1.549 | 1.752 | 7.01  |      |
| 17)      | 2-Methylphenol        | 1.092          | 1.062 | 1.072 | 1.064 | 0.998 | 1.016 | 0.942 | 1.035 | 5.07  |      |
| 18)      | Hexachloroethane      | 0.562          | 0.543 | 0.550 | 0.514 | 0.500 | 0.506 | 0.468 | 0.520 | 6.30  |      |
| 19) P    | n-Nitroso-di-n...     | 1.032          | 1.029 | 1.003 | 0.986 | 0.982 | 0.883 | 0.905 | 0.848 | 0.959 | 7.30 |
| 20)      | 3+4-Methylphenols     | 1.436          | 1.427 | 1.359 | 1.351 | 1.200 | 1.198 | 1.091 | 1.294 | 10.21 |      |
|          |                       |                |       |       |       |       |       |       |       |       |      |
| 21) I    | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |      |
| 22)      | Acetophenone          | 0.532          | 0.508 | 0.481 | 0.450 | 0.434 | 0.441 | 0.411 | 0.465 | 9.35  |      |
| 23) S    | Nitrobenzene-d5       | 0.411          | 0.401 | 0.399 | 0.375 | 0.368 | 0.379 | 0.354 | 0.384 | 5.28  |      |
| 24)      | Nitrobenzene          | 0.423          | 0.421 | 0.406 | 0.393 | 0.390 | 0.394 | 0.371 | 0.400 | 4.61  |      |
| 25)      | Isophorone            | 0.736          | 0.702 | 0.692 | 0.674 | 0.654 | 0.671 | 0.634 | 0.680 | 4.87  |      |
| 26) C    | 2-Nitrophenol         | 0.175          | 0.179 | 0.181 | 0.179 | 0.175 | 0.181 | 0.171 | 0.177 | 1.99  |      |
| 27)      | 2,4-Dimethylph...     | 0.238          | 0.236 | 0.232 | 0.223 | 0.221 | 0.227 | 0.214 | 0.227 | 3.86  |      |
| 28)      | bis(2-Chloroet...     | 0.461          | 0.442 | 0.430 | 0.407 | 0.398 | 0.404 | 0.379 | 0.417 | 6.80  |      |
| 29) C    | 2,4-Dichloroph...     | 0.307          | 0.296 | 0.287 | 0.275 | 0.272 | 0.272 | 0.255 | 0.281 | 6.20  |      |
| 30)      | 1,2,4-Trichlor...     | 0.346          | 0.331 | 0.325 | 0.302 | 0.298 | 0.301 | 0.283 | 0.312 | 7.15  |      |
| 31)      | Naphthalene           | 1.160          | 1.105 | 1.064 | 0.982 | 0.950 | 0.955 | 0.886 | 1.015 | 9.60  |      |
| 32)      | Benzoic acid          | 0.162          | 0.178 | 0.180 | 0.212 | 0.215 | 0.226 | 0.226 | 0.200 | 13.01 |      |
| 33)      | 4-Chloroaniline       | 0.390          | 0.386 | 0.370 | 0.340 | 0.333 | 0.340 | 0.311 | 0.353 | 8.36  |      |
| 34) C    | Hexachlorobuta...     | 0.220          | 0.214 | 0.210 | 0.193 | 0.188 | 0.190 | 0.178 | 0.199 | 7.73  |      |
| 35)      | Caprolactam           | 0.098          | 0.093 | 0.094 | 0.092 | 0.091 | 0.095 | 0.089 | 0.093 | 3.27  |      |
| 36) C    | 4-Chloro-3-met...     | 0.331          | 0.327 | 0.320 | 0.309 | 0.299 | 0.304 | 0.287 | 0.311 | 5.14  |      |
| 37)      | 2-Methylnaphth...     | 0.751          | 0.706 | 0.683 | 0.632 | 0.610 | 0.607 | 0.565 | 0.651 | 10.01 |      |
| 38)      | 1-Methylnaphth...     | 0.734          | 0.696 | 0.673 | 0.625 | 0.589 | 0.592 | 0.550 | 0.637 | 10.39 |      |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\  
 Method File : 8270-BF111324.M

|       |                   |                |       |       |       |       |       |       |       |       |  |
|-------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 39) I | Acenaphthene-d10  | -----ISTD----- |       |       |       |       |       |       |       |       |  |
| 40)   | 1,2,4,5-Tetrac... | 0.646          | 0.585 | 0.583 | 0.531 | 0.524 | 0.517 | 0.485 | 0.553 | 9.85  |  |
| 41) P | Hexachlorocycl... | 0.111          | 0.143 | 0.139 | 0.156 | 0.159 | 0.145 | 0.142 | 12.04 |       |  |
| 42) S | 2,4,6-Tribromo... | 0.220          | 0.211 | 0.207 | 0.193 | 0.191 | 0.189 | 0.182 | 0.199 | 6.88  |  |
| 43) C | 2,4,6-Trichlor... | 0.380          | 0.374 | 0.374 | 0.360 | 0.360 | 0.352 | 0.341 | 0.363 | 3.87  |  |
| 44)   | 2,4,5-Trichlor... | 0.421          | 0.417 | 0.412 | 0.389 | 0.387 | 0.390 | 0.361 | 0.397 | 5.41  |  |
| 45) S | 2-Fluorobiphenyl  | 1.524          | 1.396 | 1.351 | 1.172 | 1.125 | 1.110 | 1.031 | 1.244 | 14.50 |  |
| 46)   | 1,1'-Biphenyl     | 1.690          | 1.571 | 1.565 | 1.404 | 1.368 | 1.343 | 1.244 | 1.455 | 10.80 |  |
| 47)   | 2-Chloronaphth... | 1.279          | 1.182 | 1.149 | 1.065 | 1.064 | 1.049 | 0.971 | 1.108 | 9.20  |  |
| 48)   | 2-Nitroaniline    | 0.378          | 0.365 | 0.384 | 0.364 | 0.365 | 0.366 | 0.351 | 0.368 | 2.91  |  |
| 49)   | Acenaphthylene    | 1.940          | 1.802 | 1.786 | 1.636 | 1.582 | 1.552 | 1.441 | 1.677 | 10.29 |  |
| 50)   | Dimethylphthalate | 1.464          | 1.358 | 1.371 | 1.261 | 1.246 | 1.244 | 1.181 | 1.304 | 7.47  |  |
| 51)   | 2,6-Dinitrotol... | 0.317          | 0.303 | 0.313 | 0.297 | 0.291 | 0.289 | 0.268 | 0.297 | 5.57  |  |
| 52) C | Acenaphthene      | 1.259          | 1.204 | 1.192 | 1.096 | 1.091 | 1.079 | 1.006 | 1.133 | 7.78  |  |
| 53)   | 3-Nitroaniline    | 0.333          | 0.327 | 0.335 | 0.310 | 0.307 | 0.298 | 0.275 | 0.312 | 6.92  |  |
| 54) P | 2,4-Dinitrophenol | 0.109          | 0.148 | 0.147 | 0.178 | 0.170 | 0.168 | 0.153 | 16.27 |       |  |
| 55)   | Dibenzofuran      | 1.904          | 1.736 | 1.715 | 1.558 | 1.502 | 1.466 | 1.344 | 1.603 | 11.92 |  |
| 56) P | 4-Nitrophenol     | 0.199          | 0.217 | 0.239 | 0.236 | 0.240 | 0.237 | 0.225 | 0.228 | 6.67  |  |
| 57)   | 2,4-Dinitrotol... | 0.414          | 0.400 | 0.417 | 0.387 | 0.387 | 0.382 | 0.351 | 0.391 | 5.77  |  |
| 58)   | Fluorene          | 1.525          | 1.403 | 1.365 | 1.202 | 1.168 | 1.137 | 1.066 | 1.267 | 13.14 |  |
| 59)   | 2,3,4,6-Tetrac... | 0.322          | 0.328 | 0.326 | 0.318 | 0.308 | 0.302 | 0.288 | 0.313 | 4.61  |  |
| 60)   | Diethylphthalate  | 1.525          | 1.417 | 1.398 | 1.287 | 1.272 | 1.246 | 1.185 | 1.333 | 8.85  |  |
| 61)   | 4-Chlorophenyl... | 0.739          | 0.688 | 0.669 | 0.604 | 0.583 | 0.567 | 0.528 | 0.625 | 12.01 |  |
| 62)   | 4-Nitroaniline    | 0.335          | 0.325 | 0.328 | 0.319 | 0.316 | 0.313 | 0.297 | 0.319 | 3.86  |  |
| 63)   | Azobenzene        | 1.498          | 1.391 | 1.380 | 1.293 | 1.251 | 1.244 | 1.163 | 1.317 | 8.55  |  |
| 64) I | Phenanthrene-d10  | -----ISTD----- |       |       |       |       |       |       |       |       |  |
| 65)   | 4,6-Dinitro-2-... | 0.080          | 0.098 | 0.113 | 0.109 | 0.117 | 0.120 | 0.116 | 0.108 | 13.00 |  |
| 66) c | n-Nitrosodiphe... | 0.651          | 0.630 | 0.600 | 0.559 | 0.541 | 0.541 | 0.522 | 0.578 | 8.57  |  |
| 67)   | 4-Bromophenyl-... | 0.227          | 0.210 | 0.209 | 0.194 | 0.191 | 0.188 | 0.180 | 0.200 | 8.14  |  |
| 68)   | Hexachlorobenzene | 0.251          | 0.242 | 0.232 | 0.218 | 0.209 | 0.215 | 0.208 | 0.225 | 7.54  |  |
| 69)   | Atrazine          | 0.191          | 0.183 | 0.135 | 0.145 | 0.155 | 0.205 | 0.209 | 0.175 | 17.03 |  |
| 70) C | Pentachlorophenol | 0.097          | 0.108 | 0.124 | 0.127 | 0.131 | 0.130 | 0.130 | 0.121 | 10.87 |  |
| 71)   | Phenanthrene      | 1.096          | 1.053 | 0.986 | 0.903 | 0.868 | 0.851 | 0.820 | 0.940 | 11.33 |  |
| 72)   | Anthracene        | 1.071          | 1.018 | 0.966 | 0.889 | 0.860 | 0.839 | 0.803 | 0.921 | 10.81 |  |
| 73)   | Carbazole         | 1.053          | 1.009 | 0.963 | 0.876 | 0.846 | 0.834 | 0.783 | 0.909 | 11.02 |  |
| 74)   | Di-n-butylphth... | 1.214          | 1.177 | 1.150 | 1.074 | 1.036 | 1.023 | 0.964 | 1.091 | 8.37  |  |
| 75) C | Fluoranthene      | 1.256          | 1.201 | 1.141 | 1.018 | 0.962 | 0.933 | 0.867 | 1.054 | 13.92 |  |
| 76) I | Chrysene-d12      | -----ISTD----- |       |       |       |       |       |       |       |       |  |
| 77)   | Benzidine         | 0.634          | 0.684 | 0.653 | 0.742 | 0.953 | 0.939 | 0.768 | 18.64 |       |  |
| 78)   | Pyrene            | 1.748          | 1.706 | 1.643 | 1.679 | 1.728 | 1.800 | 1.672 | 1.711 | 3.08  |  |
| 79) S | Terphenyl-d14     | 1.226          | 1.185 | 1.108 | 1.123 | 1.139 | 1.190 | 1.093 | 1.152 | 4.26  |  |
| 80)   | Butylbenzylpht... | 0.640          | 0.638 | 0.654 | 0.690 | 0.670 | 0.681 | 0.628 | 0.657 | 3.56  |  |
| 81)   | Benzo(a)anthra... | 1.451          | 1.418 | 1.351 | 1.263 | 1.229 | 1.294 | 1.195 | 1.314 | 7.31  |  |
| 82)   | 3,3'-Dichlorob... | 0.438          | 0.431 | 0.433 | 0.402 | 0.406 | 0.416 | 0.399 | 0.418 | 3.79  |  |
| 83)   | Chrysene          | 1.394          | 1.241 | 1.235 | 1.168 | 1.137 | 1.123 | 1.099 | 1.199 | 8.44  |  |
| 84)   | Bis(2-ethylhex... | 0.886          | 0.890 | 0.897 | 0.927 | 0.858 | 0.869 | 0.813 | 0.877 | 4.07  |  |
| 85) c | Di-n-octyl pht... | 1.231          | 1.217 | 1.270 | 1.290 | 1.187 | 1.241 | 1.212 | 1.235 | 2.86  |  |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\  
Method File : 8270-BF111324.M

|       |                   |                |       |       |       |       |       |       |       |       |
|-------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 86) I | Perylene-d12      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 87)   | Indeno(1,2,3-c... | 1.116          | 1.150 | 1.138 | 1.258 | 1.316 | 1.354 | 1.317 | 1.235 | 8.02  |
| 88)   | Benzo(b)fluora... | 1.405          | 1.352 | 1.471 | 1.263 | 1.235 | 1.233 | 1.199 | 1.308 | 7.82  |
| 89)   | Benzo(k)fluora... | 1.286          | 1.241 | 1.120 | 1.060 | 0.952 | 0.935 | 0.888 | 1.069 | 14.47 |
| 90) C | Benzo(a)pyrene    | 1.100          | 1.053 | 1.054 | 1.005 | 0.970 | 0.980 | 0.948 | 1.016 | 5.40  |
| 91)   | Dibenzo(a,h)an... | 0.941          | 0.952 | 0.944 | 1.039 | 1.074 | 1.121 | 1.077 | 1.021 | 7.30  |
| 92)   | Benzo(g,h,i)pe... | 0.941          | 0.963 | 0.954 | 1.063 | 1.122 | 1.146 | 1.120 | 1.044 | 8.55  |

-----  
(#) = Out of Range

Method Path : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\  
 Method File : 8270-BF112124.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Thu Nov 21 15:23:48 2024  
 Response Via : Initial Calibration

## Calibration Files

2.5 =BF140528.D 5 =BF140529.D 10 =BF140530.D 20 =BF140531.D 40 =BF140532.D 50 =BF140533.D 60 =BF140534.D 80 =BF140535.D

| Compound                   | 2.5            | 5     | 10    | 20    | 40    | 50    | 60    | 80    | Avg   | %RSD  |
|----------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                      |                |       |       |       |       |       |       |       |       |       |
| 1) I 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |       |
| 2) 1,4-Dioxane             |                | 0.501 | 0.502 | 0.576 | 0.489 | 0.452 | 0.454 | 0.477 | 0.493 | 8.46  |
| 3) Pyridine                |                | 0.981 | 1.019 | 1.121 | 1.192 | 1.062 | 1.087 | 1.128 | 1.084 | 6.54  |
| 4) n-Nitrosodimet...       |                | 0.616 | 0.611 | 0.661 | 0.648 | 0.632 | 0.632 | 0.660 | 0.637 | 3.15  |
| 5) S 2-Fluorophenol        |                | 1.261 | 1.233 | 1.202 | 1.174 | 1.117 | 1.127 | 1.091 | 1.172 | 5.40  |
| 6) Aniline                 |                | 1.159 | 1.195 | 1.133 | 1.251 | 1.042 | 1.020 | 0.835 | 1.091 | 12.73 |
| 7) S Phenol-d6             |                | 1.729 | 1.617 | 1.559 | 1.602 | 1.465 | 1.470 | 1.407 | 1.550 | 7.14  |
| 8) 2-Chlorophenol          |                | 1.385 | 1.328 | 1.278 | 1.283 | 1.201 | 1.208 | 1.145 | 1.261 | 6.51  |
| 9) Benzaldehyde            |                |       | 1.007 | 0.970 | 0.738 | 0.752 | 0.635 |       | 0.820 | 19.55 |
| 10) C Phenol               |                | 1.723 | 1.648 | 1.620 | 1.667 | 1.514 | 1.490 | 1.417 | 1.583 | 6.98  |
| 11) bis(2-Chloroet...      |                | 1.292 | 1.242 | 1.214 | 1.246 | 1.146 | 1.200 | 1.138 | 1.211 | 4.56  |
| 12) 1,3-Dichlorobe...      |                | 1.600 | 1.493 | 1.433 | 1.399 | 1.345 | 1.361 | 1.288 | 1.417 | 7.31  |
| 13) C 1,4-Dichlorobe...    |                | 1.613 | 1.501 | 1.456 | 1.428 | 1.358 | 1.372 | 1.314 | 1.435 | 7.04  |
| 14) 1,2-Dichlorobe...      |                | 1.503 | 1.434 | 1.375 | 1.355 | 1.268 | 1.266 | 1.210 | 1.344 | 7.71  |
| 15) Benzyl Alcohol         |                | 1.234 | 1.174 | 1.161 | 1.224 | 1.113 | 1.090 | 1.048 | 1.149 | 5.98  |
| 16) 2,2'-oxybis(1-...      |                | 1.650 | 1.480 | 1.434 | 1.463 | 1.335 | 1.377 | 1.276 | 1.431 | 8.43  |
| 17) 2-Methylphenol         |                | 1.121 | 1.034 | 1.033 | 1.042 | 0.956 | 0.959 | 0.922 | 1.009 | 6.74  |
| 18) Hexachloroethane       |                | 0.598 | 0.545 | 0.549 | 0.537 | 0.514 | 0.510 | 0.499 | 0.536 | 6.17  |
| 19) P n-Nitroso-di-n...    | 0.972          | 1.002 | 0.949 | 0.916 | 0.946 | 0.856 | 0.857 | 0.829 | 0.916 | 6.82  |
| 20) 3+4-Methylphenols      |                | 1.495 | 1.362 | 1.305 | 1.347 | 1.211 | 1.209 | 1.154 | 1.298 | 8.98  |
|                            |                |       |       |       |       |       |       |       |       |       |
| 21) I Naphthalene-d8       | -----ISTD----- |       |       |       |       |       |       |       |       |       |
| 22) Acetophenone           |                | 0.536 | 0.511 | 0.494 | 0.481 | 0.463 | 0.460 | 0.468 | 0.488 | 5.75  |
| 23) S Nitrobenzene-d5      |                | 0.409 | 0.403 | 0.395 | 0.392 | 0.377 | 0.377 | 0.383 | 0.391 | 3.21  |
| 24) Nitrobenzene           |                | 0.439 | 0.409 | 0.409 | 0.401 | 0.388 | 0.391 | 0.392 | 0.404 | 4.35  |
| 25) Isophorone             |                | 0.694 | 0.654 | 0.657 | 0.662 | 0.629 | 0.634 | 0.635 | 0.652 | 3.44  |
| 26) C 2-Nitrophenol        |                | 0.178 | 0.172 | 0.185 | 0.180 | 0.178 | 0.180 | 0.180 | 0.179 | 2.17  |
| 27) 2,4-Dimethylph...      |                | 0.221 | 0.214 | 0.213 | 0.224 | 0.204 | 0.207 | 0.218 | 0.214 | 3.40  |
| 28) bis(2-Chloroet...      |                | 0.428 | 0.408 | 0.403 | 0.397 | 0.378 | 0.384 | 0.383 | 0.397 | 4.37  |
| 29) C 2,4-Dichloroph...    |                | 0.301 | 0.291 | 0.290 | 0.282 | 0.277 | 0.274 | 0.271 | 0.284 | 3.82  |
| 30) 1,2,4-Trichlor...      |                | 0.342 | 0.338 | 0.332 | 0.317 | 0.317 | 0.312 | 0.312 | 0.324 | 3.91  |
| 31) Naphthalene            |                | 1.116 | 1.075 | 1.062 | 1.013 | 0.993 | 0.983 | 0.970 | 1.030 | 5.32  |
| 32) Benzoic acid           |                |       | 0.101 | 0.126 | 0.177 | 0.185 | 0.192 | 0.202 | 0.164 | 24.72 |
| 33) 4-Chloroaniline        |                | 0.308 | 0.318 | 0.309 | 0.325 | 0.303 | 0.308 | 0.289 | 0.308 | 3.71  |
| 34) C Hexachlorobuta...    |                | 0.227 | 0.225 | 0.219 | 0.212 | 0.209 | 0.207 | 0.204 | 0.215 | 4.15  |
| 35) Caprolactam            |                | 0.091 | 0.091 | 0.091 | 0.090 | 0.085 | 0.085 | 0.083 | 0.088 | 3.99  |
| 36) C 4-Chloro-3-met...    |                | 0.348 | 0.318 | 0.317 | 0.327 | 0.307 | 0.307 | 0.301 | 0.318 | 4.95  |
| 37) 2-Methylnaphth...      |                | 0.724 | 0.680 | 0.669 | 0.650 | 0.623 | 0.620 | 0.615 | 0.654 | 6.09  |
| 38) 1-Methylnaphth...      |                | 0.707 | 0.665 | 0.659 | 0.638 | 0.611 | 0.608 | 0.601 | 0.641 | 5.98  |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\  
 Method File : 8270-BF112124.M

|       |                    |                |       |       |       |       |       |       |       |       |
|-------|--------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 39) I | Acenaphthene-d10   | -----ISTD----- |       |       |       |       |       |       |       |       |
| 40)   | 1,2,4,5-Tetrac...  | 0.635          | 0.604 | 0.606 | 0.563 | 0.561 | 0.565 | 0.565 | 0.586 | 5.02  |
| 41) P | Hexachlorocycl...  |                | 0.055 | 0.090 | 0.114 | 0.121 | 0.129 | 0.133 | 0.107 | 27.80 |
| 42) S | 2,4,6-Tribromo...  | 0.222          | 0.209 | 0.220 | 0.216 | 0.210 | 0.210 | 0.211 | 0.214 | 2.52  |
| 43) C | 2,4,6-Trichlor...  | 0.384          | 0.358 | 0.375 | 0.366 | 0.364 | 0.360 | 0.365 | 0.367 | 2.45  |
| 44)   | 2,4,5-Trichlor...  | 0.402          | 0.396 | 0.410 | 0.404 | 0.390 | 0.397 | 0.392 | 0.399 | 1.80  |
| 45) S | 2-Fluorobiphenyl   | 1.550          | 1.402 | 1.423 | 1.291 | 1.255 | 1.240 | 1.235 | 1.342 | 8.90  |
| 46)   | 1,1'-Biphenyl      | 1.666          | 1.530 | 1.563 | 1.447 | 1.427 | 1.418 | 1.403 | 1.493 | 6.50  |
| 47)   | 2-Chloronaphth...  | 1.251          | 1.145 | 1.162 | 1.106 | 1.082 | 1.084 | 1.091 | 1.131 | 5.39  |
| 48)   | 2-Nitroaniline     | 0.367          | 0.351 | 0.379 | 0.367 | 0.363 | 0.357 | 0.359 | 0.363 | 2.50  |
| 49)   | Acenaphthylene     | 1.890          | 1.765 | 1.808 | 1.662 | 1.628 | 1.623 | 1.590 | 1.710 | 6.58  |
| 50)   | Dimethylphthalate  | 1.455          | 1.329 | 1.346 | 1.299 | 1.267 | 1.270 | 1.254 | 1.317 | 5.28  |
| 51)   | 2,6-Dinitrotol...  | 0.314          | 0.299 | 0.307 | 0.301 | 0.291 | 0.293 | 0.286 | 0.299 | 3.24  |
| 52) C | Acenaphthene       | 1.182          | 1.110 | 1.134 | 1.063 | 1.052 | 1.037 | 1.026 | 1.086 | 5.29  |
| 53)   | 3-Nitroaniline     | 0.307          | 0.297 | 0.309 | 0.300 | 0.289 | 0.281 | 0.262 | 0.292 | 5.71  |
| 54) P | 2,4-Dinitrophenol  |                | 0.057 | 0.089 | 0.140 | 0.145 | 0.150 | 0.154 | 0.122 | 32.70 |
| 55)   | Dibenzofuran       | 1.898          | 1.739 | 1.739 | 1.622 | 1.559 | 1.531 | 1.509 | 1.657 | 8.53  |
| 56) P | 4-Nitrophenol      |                | 0.160 | 0.195 | 0.207 | 0.212 | 0.214 | 0.208 | 0.199 | 10.31 |
| 57)   | 2,4-Dinitrotol...  | 0.403          | 0.403 | 0.416 | 0.404 | 0.386 | 0.389 | 0.379 | 0.397 | 3.24  |
| 58)   | Fluorene           | 1.509          | 1.409 | 1.399 | 1.295 | 1.263 | 1.224 | 1.210 | 1.330 | 8.37  |
| 59)   | 2,3,4,6-Tetrac...  | 0.307          | 0.296 | 0.308 | 0.312 | 0.305 | 0.305 | 0.312 | 0.306 | 1.72  |
| 60)   | Diethylphthalate   | 1.495          | 1.375 | 1.393 | 1.311 | 1.292 | 1.268 | 1.234 | 1.338 | 6.66  |
| 61)   | 4-Chlorophenyl...  | 0.739          | 0.682 | 0.685 | 0.639 | 0.619 | 0.605 | 0.599 | 0.653 | 7.90  |
| 62)   | 4-Nitroaniline     | 0.307          | 0.301 | 0.315 | 0.312 | 0.310 | 0.309 | 0.291 | 0.306 | 2.67  |
| 63)   | Azobenzene         | 1.406          | 1.320 | 1.320 | 1.235 | 1.205 | 1.206 | 1.179 | 1.267 | 6.55  |
| 64) I | Phenanthrene-d10   | -----ISTD----- |       |       |       |       |       |       |       |       |
| 65)   | 4,6-Dinitro-2-...  |                | 0.073 | 0.090 | 0.110 | 0.110 | 0.117 | 0.113 | 0.102 | 16.74 |
| 66) c | n-Nitrosodiphe...  | 0.632          | 0.618 | 0.597 | 0.578 | 0.577 | 0.580 | 0.558 | 0.591 | 4.39  |
| 67)   | 4-Bromophenyl-...  | 0.218          | 0.215 | 0.206 | 0.200 | 0.200 | 0.205 | 0.198 | 0.206 | 3.79  |
| 68)   | Hexachlorobenzene  | 0.257          | 0.240 | 0.239 | 0.233 | 0.232 | 0.236 | 0.232 | 0.238 | 3.65  |
| 69)   | Atrazine           | 0.181          | 0.171 | 0.131 | 0.140 | 0.147 | 0.196 | 0.198 | 0.166 | 16.37 |
| 70) C | Pentachlorophenol  |                | 0.071 | 0.090 | 0.116 | 0.115 | 0.121 | 0.118 | 0.105 | 19.24 |
| 71)   | Phenanthrene       | 1.074          | 1.020 | 0.970 | 0.944 | 0.925 | 0.916 | 0.881 | 0.961 | 6.87  |
| 72)   | Anthracene         | 1.038          | 0.994 | 0.958 | 0.925 | 0.905 | 0.904 | 0.859 | 0.940 | 6.47  |
| 73)   | Carbazole          | 1.004          | 0.949 | 0.930 | 0.889 | 0.876 | 0.862 | 0.821 | 0.905 | 6.75  |
| 74)   | Di-n-butylphth...  | 1.144          | 1.075 | 1.074 | 1.023 | 1.021 | 1.007 | 0.967 | 1.044 | 5.56  |
| 75) C | Fluoranthene       | 1.186          | 1.111 | 1.114 | 1.014 | 0.999 | 0.962 | 0.921 | 1.044 | 9.11  |
| 76) I | Chrysene-d12       | -----ISTD----- |       |       |       |       |       |       |       |       |
| 77)   | Benzidine          | 0.268          | 0.422 | 0.296 | 0.575 | 0.734 | 1.025 | 0.751 | 0.581 | 47.31 |
| 78)   | Pyrene             | 1.905          | 1.801 | 1.897 | 1.853 | 1.791 | 1.898 | 1.799 | 1.849 | 2.79  |
| 79) S | Terphenyl-d14      | 1.351          | 1.254 | 1.308 | 1.283 | 1.228 | 1.313 | 1.254 | 1.284 | 3.31  |
| 80)   | Butylbenzylphth... | 0.676          | 0.644 | 0.694 | 0.679 | 0.655 | 0.674 | 0.641 | 0.666 | 2.96  |
| 81)   | Benzo(a)anthra...  | 1.409          | 1.319 | 1.379 | 1.286 | 1.295 | 1.338 | 1.242 | 1.324 | 4.30  |
| 82)   | 3,3'-Dichlorob...  | 0.375          | 0.383 | 0.393 | 0.413 | 0.406 | 0.419 | 0.394 | 0.397 | 4.03  |
| 83)   | Chrysene           | 1.354          | 1.263 | 1.218 | 1.201 | 1.137 | 1.173 | 1.128 | 1.211 | 6.50  |
| 84)   | Bis(2-ethylhex...  | 0.904          | 0.828 | 0.862 | 0.833 | 0.824 | 0.841 | 0.797 | 0.841 | 4.00  |
| 85) c | Di-n-octyl pht...  | 1.198          | 1.133 | 1.147 | 1.132 | 1.147 | 1.169 | 1.121 | 1.150 | 2.29  |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\  
Method File : 8270-BF112124.M

|       |                   |                |       |       |       |       |       |       |       |      |
|-------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|------|
| 86) I | Perylene-d12      | -----ISTD----- |       |       |       |       |       |       |       |      |
| 87)   | Indeno(1,2,3-c... | 1.209          | 1.283 | 1.299 | 1.304 | 1.306 | 1.409 | 1.313 | 1.303 | 4.51 |
| 88)   | Benzo(b)fluora... | 1.347          | 1.256 | 1.380 | 1.186 | 1.248 | 1.207 | 1.168 | 1.256 | 6.41 |
| 89)   | Benzo(k)fluora... | 1.243          | 1.236 | 1.059 | 1.101 | 1.022 | 1.055 | 0.980 | 1.099 | 9.34 |
| 90) C | Benzo(a)pyrene    | 1.062          | 1.050 | 1.063 | 1.007 | 0.998 | 1.014 | 0.957 | 1.021 | 3.81 |
| 91)   | Dibenzo(a,h)an... | 1.015          | 1.038 | 1.063 | 1.068 | 1.075 | 1.149 | 1.064 | 1.067 | 3.90 |
| 92)   | Benzo(g,h,i)pe... | 1.033          | 1.090 | 1.078 | 1.085 | 1.094 | 1.161 | 1.083 | 1.089 | 3.48 |

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG No.: P4871

Instrument ID: BNA\_F Calibration Date/Time: 11/18/2024 16:14

Lab File ID: BF140456.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND              | RRF   | RRF040 | MIN<br>RRF | %D   | MAX%D |
|-----------------------|-------|--------|------------|------|-------|
| Pyridine              | 1.283 | 1.283  |            | 0.0  |       |
| 2-Fluorophenol        | 1.171 | 1.145  |            | -2.2 |       |
| Phenol-d6             | 1.587 | 1.518  |            | -4.3 |       |
| 1,4-Dichlorobenzene   | 1.408 | 1.381  |            | -1.9 | 20.0  |
| 2-Methylphenol        | 1.035 | 0.997  |            | -3.7 |       |
| 3+4-Methylphenols     | 1.295 | 1.232  |            | -4.9 |       |
| Nitrobenzene-d5       | 0.384 | 0.371  |            | -3.4 |       |
| Hexachloroethane      | 0.520 | 0.518  |            | -0.4 |       |
| Nitrobenzene          | 0.400 | 0.389  |            | -2.8 |       |
| Hexachlorobutadiene   | 0.199 | 0.198  |            | -0.5 | 20.0  |
| 2,4,6-Trichlorophenol | 0.363 | 0.357  |            | -1.7 | 20.0  |
| 2-Fluorobiphenyl      | 1.244 | 1.247  |            | 0.2  |       |
| 2,4,5-Trichlorophenol | 0.397 | 0.402  |            | 1.3  |       |
| 2,4-Dinitrotoluene    | 0.391 | 0.388  |            | -0.8 |       |
| 2,4,6-Tribromophenol  | 0.199 | 0.196  |            | -1.5 |       |
| Hexachlorobenzene     | 0.225 | 0.232  |            | 3.1  |       |
| Pentachlorophenol     | 0.121 | 0.115  |            | -5.0 | 20.0  |
| Terphenyl-d14         | 1.152 | 1.275  |            | 10.7 |       |

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG No.: P4871

Instrument ID: BNA\_F Calibration Date/Time: 11/19/2024 10:34

Lab File ID: BF140463.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND              | RRF   | RRF040 | MIN<br>RRF | %D   | MAX%D |
|-----------------------|-------|--------|------------|------|-------|
| Pyridine              | 1.283 | 1.308  |            | 1.9  |       |
| 2-Fluorophenol        | 1.171 | 1.209  |            | 3.2  |       |
| Phenol-d6             | 1.587 | 1.607  |            | 1.3  |       |
| 1,4-Dichlorobenzene   | 1.408 | 1.437  |            | 2.1  | 20.0  |
| 2-Methylphenol        | 1.035 | 1.061  |            | 2.5  |       |
| 3+4-Methylphenols     | 1.295 | 1.288  |            | -0.5 |       |
| Nitrobenzene-d5       | 0.384 | 0.393  |            | 2.3  |       |
| Hexachloroethane      | 0.520 | 0.523  |            | 0.6  |       |
| Nitrobenzene          | 0.400 | 0.412  |            | 3.0  |       |
| Hexachlorobutadiene   | 0.199 | 0.203  |            | 2.0  | 20.0  |
| 2,4,6-Trichlorophenol | 0.363 | 0.376  |            | 3.6  | 20.0  |
| 2-Fluorobiphenyl      | 1.244 | 1.257  |            | 1.0  |       |
| 2,4,5-Trichlorophenol | 0.397 | 0.420  |            | 5.8  |       |
| 2,4-Dinitrotoluene    | 0.391 | 0.413  |            | 5.6  |       |
| 2,4,6-Tribromophenol  | 0.199 | 0.209  |            | 5.0  |       |
| Hexachlorobenzene     | 0.225 | 0.231  |            | 2.7  |       |
| Pentachlorophenol     | 0.121 | 0.124  |            | 2.5  | 20.0  |
| Terphenyl-d14         | 1.152 | 1.112  |            | -3.5 |       |

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG No.: P4871

Instrument ID: BNA\_F Calibration Date/Time: 11/25/2024 09:33

Lab File ID: BF140590.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND              | RRF   | RRF040 | MIN<br>RRF | %D   | MAX%D |
|-----------------------|-------|--------|------------|------|-------|
| Pyridine              | 1.084 | 1.124  |            | 3.7  |       |
| 2-Fluorophenol        | 1.172 | 1.119  |            | -4.5 |       |
| Phenol-d6             | 1.550 | 1.507  |            | -2.8 |       |
| 1,4-Dichlorobenzene   | 1.435 | 1.399  |            | -2.5 | 20.0  |
| 2-Methylphenol        | 1.010 | 0.988  |            | -2.2 |       |
| 3+4-Methylphenols     | 1.298 | 1.252  |            | -3.5 |       |
| Nitrobenzene-d5       | 0.391 | 0.377  |            | -3.6 |       |
| Hexachloroethane      | 0.536 | 0.520  |            | -3.0 |       |
| Nitrobenzene          | 0.404 | 0.386  |            | -4.5 |       |
| Hexachlorobutadiene   | 0.215 | 0.212  |            | -1.4 | 20.0  |
| 2,4,6-Trichlorophenol | 0.367 | 0.368  |            | 0.3  | 20.0  |
| 2-Fluorobiphenyl      | 1.342 | 1.315  |            | -2.0 |       |
| 2,4,5-Trichlorophenol | 0.399 | 0.405  |            | 1.5  |       |
| 2,4-Dinitrotoluene    | 0.397 | 0.407  |            | 2.5  |       |
| 2,4,6-Tribromophenol  | 0.214 | 0.210  |            | -1.9 |       |
| Hexachlorobenzene     | 0.238 | 0.233  |            | -2.1 |       |
| Pentachlorophenol     | 0.105 | 0.110  |            | 4.8  | 20.0  |
| Terphenyl-d14         | 1.284 | 1.204  |            | -6.2 |       |

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG No.: P4871

Instrument ID: BNA\_F Calibration Date/Time: 11/25/2024 15:49

Lab File ID: BF140604.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND              | RRF   | RRF040 | MIN<br>RRF | %D   | MAX%D |
|-----------------------|-------|--------|------------|------|-------|
| Pyridine              | 1.084 | 1.248  |            | 15.1 |       |
| 2-Fluorophenol        | 1.172 | 1.153  |            | -1.6 |       |
| Phenol-d6             | 1.550 | 1.521  |            | -1.9 |       |
| 1,4-Dichlorobenzene   | 1.435 | 1.401  |            | -2.4 | 20.0  |
| 2-Methylphenol        | 1.010 | 1.019  |            | 0.9  |       |
| 3+4-Methylphenols     | 1.298 | 1.259  |            | -3.0 |       |
| Nitrobenzene-d5       | 0.391 | 0.378  |            | -3.3 |       |
| Hexachloroethane      | 0.536 | 0.521  |            | -2.8 |       |
| Nitrobenzene          | 0.404 | 0.392  |            | -3.0 |       |
| Hexachlorobutadiene   | 0.215 | 0.210  |            | -2.3 | 20.0  |
| 2,4,6-Trichlorophenol | 0.367 | 0.358  |            | -2.5 | 20.0  |
| 2-Fluorobiphenyl      | 1.342 | 1.282  |            | -4.5 |       |
| 2,4,5-Trichlorophenol | 0.399 | 0.395  |            | -1.0 |       |
| 2,4-Dinitrotoluene    | 0.397 | 0.389  |            | -2.0 |       |
| 2,4,6-Tribromophenol  | 0.214 | 0.206  |            | -3.7 |       |
| Hexachlorobenzene     | 0.238 | 0.236  |            | -0.8 |       |
| Pentachlorophenol     | 0.105 | 0.106  |            | 1.0  | 20.0  |
| Terphenyl-d14         | 1.284 | 1.258  |            | -2.0 |       |

All other compounds must meet a minimum RRF of 0.010.