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



# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2259 | **OrderDate:** | 6/6/2025 10:57:00 AM |
| **Client:** | Nobis Group | **Project:** | Raymark Superfund Site |
| **Contact:** | Adam Roy | **Location:** | D21,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2259-01** | **OU4-PCS-TC-36-060525** | **SOIL** | | | **06/05/25** | | | **06/06/25** |
| | | | SVOCMS Group3 | 8270E | | 06/09/25 | 06/10/25 | |
| **Q2259-03** | **OU4-PCS-TC-37-060525** | **SOIL** | | | **06/05/25** | | | **06/06/25** |
| | | | SVOCMS Group3 | 8270E | | 06/09/25 | 06/10/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2259

**Client:** Nobis Group

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

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Nobis Group | Date Collected: | 06/05/25 |
| Project: | Raymark Superfund Site | Date Received: | 06/06/25 |
| Client Sample ID: | OU4-PCS-TC-36-060525 | SDG No.: | Q2259 |
| Lab Sample ID: | Q2259-01 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 94.3 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142704.D | 1 | 06/09/25 09:40 | 06/10/25 11:13 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 91-20-3 | Naphthalene | 0.14 | U | 0.024 | 0.14 | 0.18 | mg/Kg |
| 91-57-6 | 2-Methylnaphthalene | 0.14 | U | 0.027 | 0.14 | 0.18 | mg/Kg |
| 208-96-8 | Acenaphthylene | 0.14 | U | 0.031 | 0.14 | 0.18 | mg/Kg |
| 83-32-9 | Acenaphthene | 0.14 | U | 0.023 | 0.14 | 0.18 | mg/Kg |
| 86-73-7 | Fluorene | 0.14 | U | 0.027 | 0.14 | 0.18 | mg/Kg |
| 85-01-8 | Phenanthrene | 0.14 | U | 0.022 | 0.14 | 0.18 | mg/Kg |
| 120-12-7 | Anthracene | 0.14 | U | 0.035 | 0.14 | 0.18 | mg/Kg |
| 206-44-0 | Fluoranthene | 0.14 | U | 0.032 | 0.14 | 0.18 | mg/Kg |
| 129-00-0 | Pyrene | 0.14 | U | 0.038 | 0.14 | 0.18 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 0.14 | U | 0.024 | 0.14 | 0.18 | mg/Kg |
| 218-01-9 | Chrysene | 0.14 | U | 0.021 | 0.14 | 0.18 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 0.14 | U | 0.020 | 0.14 | 0.18 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 0.14 | U | 0.024 | 0.14 | 0.18 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 0.14 | U | 0.031 | 0.14 | 0.18 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.14 | U | 0.031 | 0.14 | 0.18 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.14 | U | 0.029 | 0.14 | 0.18 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 0.14 | U | 0.027 | 0.14 | 0.18 | mg/Kg |
| **SURROGATES** | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 63.1 | | 37 - 122 | | 63% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 64.7 | | 44 - 115 | | 65% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 66.2 | | 54 - 127 | | 66% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 69300 | 6.892 | | | | |
| 1146-65-2 | Naphthalene-d8 | 257000 | 8.175 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 140000 | 9.933 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 225000 | 11.422 | | | | |
| 1719-03-5 | Chrysene-d12 | 141000 | 14.063 | | | | |
| 1520-96-3 | Perylene-d12 | 169000 | 15.557 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Nobis Group | | | Date Collected: | 06/05/25 |
| Project: | Raymark Superfund Site | | | Date Received: | 06/06/25 |
| Client Sample ID: | OU4-PCS-TC-36-060525 | | | SDG No.: | Q2259 |
| Lab Sample ID: | Q2259-01 | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 94.3 |
| Sample Wt/Vol: | 30.01 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142704.D | 1 | 06/09/25 09:40 | 06/10/25 11:13 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 15972608 | Alachlor | N.D | | | | | |
| 82-68-8 | Quintozine | N.D | | | | | |

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Nobis Group | Date Collected: | 06/05/25 |
| Project: | Raymark Superfund Site | Date Received: | 06/06/25 |
| Client Sample ID: | OU4-PCS-TC-37-060525 | SDG No.: | Q2259 |
| Lab Sample ID: | Q2259-03 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 94.3 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142705.D | 1 | 06/09/25 09:40 | 06/10/25 11:42 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 91-20-3 | Naphthalene | 0.14 | U | 0.024 | 0.14 | 0.18 | mg/Kg |
| 91-57-6 | 2-Methylnaphthalene | 0.14 | U | 0.027 | 0.14 | 0.18 | mg/Kg |
| 208-96-8 | Acenaphthylene | 0.14 | U | 0.031 | 0.14 | 0.18 | mg/Kg |
| 83-32-9 | Acenaphthene | 0.14 | U | 0.023 | 0.14 | 0.18 | mg/Kg |
| 86-73-7 | Fluorene | 0.14 | U | 0.027 | 0.14 | 0.18 | mg/Kg |
| 85-01-8 | Phenanthrene | 0.14 | U | 0.022 | 0.14 | 0.18 | mg/Kg |
| 120-12-7 | Anthracene | 0.14 | U | 0.035 | 0.14 | 0.18 | mg/Kg |
| 206-44-0 | Fluoranthene | 0.14 | U | 0.032 | 0.14 | 0.18 | mg/Kg |
| 129-00-0 | Pyrene | 0.14 | U | 0.038 | 0.14 | 0.18 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 0.14 | U | 0.024 | 0.14 | 0.18 | mg/Kg |
| 218-01-9 | Chrysene | 0.14 | U | 0.021 | 0.14 | 0.18 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 0.14 | U | 0.020 | 0.14 | 0.18 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 0.14 | U | 0.024 | 0.14 | 0.18 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 0.14 | U | 0.031 | 0.14 | 0.18 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.14 | U | 0.031 | 0.14 | 0.18 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.14 | U | 0.029 | 0.14 | 0.18 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 0.14 | U | 0.027 | 0.14 | 0.18 | mg/Kg |
| **SURROGATES** | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 53.5 | | 37 - 122 | | 54% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 57.1 | | 44 - 115 | | 57% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 58.1 | | 54 - 127 | | 58% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 75400 | 6.892 | | | | |
| 1146-65-2 | Naphthalene-d8 | 295000 | 8.175 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 163000 | 9.933 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 267000 | 11.422 | | | | |
| 1719-03-5 | Chrysene-d12 | 168000 | 14.063 | | | | |
| 1520-96-3 | Perylene-d12 | 225000 | 15.557 | | | | |

**TENTATIVE IDENTIFIED COMPOUNDS**

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Nobis Group | | | Date Collected: | 06/05/25 |
| Project: | Raymark Superfund Site | | | Date Received: | 06/06/25 |
| Client Sample ID: | OU4-PCS-TC-37-060525 | | | SDG No.: | Q2259 |
| Lab Sample ID: | Q2259-03 | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 94.3 |
| Sample Wt/Vol: | 30.05 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142705.D | 1 | 06/09/25 09:40 | 06/10/25 11:42 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 15972608 | Alachlor | N.D | | | | | |
| 82-68-8 | Quintozine | N.D | | | | | |

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

# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** Q2259

**Client:** Nobis Group

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| PB168351BL | PB168351BL | Nitrobenzene-d5 | 100 | 80.5 | 81 | | 37 | 122 |
| | | 2-Fluorobiphenyl | 100 | 78.5 | 78 | | 44 | 115 |
| | | Terphenyl-d14 | 100 | 72.4 | 72 | | 54 | 127 |
| PB168351BS | PB168351BS | Nitrobenzene-d5 | 100 | 81.6 | 82 | | 37 | 122 |
| | | 2-Fluorobiphenyl | 100 | 78.3 | 78 | | 44 | 115 |
| | | Terphenyl-d14 | 100 | 90.8 | 91 | | 54 | 127 |
| Q2259-01 | OU4-PCS-TC-36-060525 | Nitrobenzene-d5 | 100 | 63.1 | 63 | | 37 | 122 |
| | | 2-Fluorobiphenyl | 100 | 64.7 | 65 | | 44 | 115 |
| | | Terphenyl-d14 | 100 | 66.2 | 66 | | 54 | 127 |
| Q2259-03 | OU4-PCS-TC-37-060525 | Nitrobenzene-d5 | 100 | 53.5 | 54 | | 37 | 122 |
| | | 2-Fluorobiphenyl | 100 | 57.1 | 57 | | 44 | 115 |
| | | Terphenyl-d14 | 100 | 58.1 | 58 | | 54 | 127 |
| Q2266-05MS | WC-5MS | Nitrobenzene-d5 | 100 | 49.8 | 50 | | 37 | 122 |
| | | 2-Fluorobiphenyl | 100 | 50.7 | 51 | | 44 | 115 |
| | | Terphenyl-d14 | 100 | 52.4 | 52 | * | 54 | 127 |
| Q2266-05MSD | WC-5MSD | Nitrobenzene-d5 | 100 | 51.2 | 51 | | 37 | 122 |
| | | 2-Fluorobiphenyl | 100 | 53.3 | 53 | | 44 | 115 |
| | | Terphenyl-d14 | 100 | 54.3 | 54 | | 54 | 127 |

Alliance TECHNICAL GROUP
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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2259 **Analytical Method:** SW8270E

**Client:** Nobis Group **DataFile:** BF142707.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q2266-05MS** | | **Client Sample ID: WC-5MS** | | | | | | | | | |
| Naphthalene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 35 | 123 | |
| 2-Methylnaphthalene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 38 | 122 | |
| Acenaphthylene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 32 | 132 | |
| Acenaphthene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 40 | 123 | |
| Fluorene | 1100 | 0 | 970 | ug/Kg | 88 | | | | 43 | 125 | |
| Phenanthrene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 50 | 121 | |
| Anthracene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 47 | 123 | |
| Fluoranthene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 50 | 127 | |
| Pyrene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 47 | 127 | |
| Benzo(a)anthracene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 49 | 126 | |
| Chrysene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 50 | 124 | |
| Benzo(b)fluoranthene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 45 | 132 | |
| Benzo(k)fluoranthene | 1100 | 0 | 980 | ug/Kg | 89 | | | | 47 | 132 | |
| Benzo(a)pyrene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 45 | 129 | |
| Indeno(1,2,3-cd)pyrene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 45 | 133 | |
| Dibenz(a,h)anthracene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 45 | 134 | |
| Benzo(g,h,i)perylene | 1100 | 0 | 990 | ug/Kg | 90 | | | | 43 | 134 | |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q2259 **Analytical Method:** SW8270E

**Client:** Nobis Group **DataFile:** BF142708.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q2266-05MSD** | | **Client Sample ID: WC-5MSD** | | | | | | | | | |
| Naphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 35 | 123 | 20 |
| 2-Methylnaphthalene | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 38 | 122 | 20 |
| Acenaphthylene | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 32 | 132 | 20 |
| Acenaphthene | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 40 | 123 | 20 |
| Fluorene | 1100 | 0 | 1000 | ug/Kg | 91 | | 3 | | 43 | 125 | 20 |
| Phenanthrene | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 50 | 121 | 20 |
| Anthracene | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 47 | 123 | 20 |
| Fluoranthene | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 50 | 127 | 20 |
| Pyrene | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 47 | 127 | 20 |
| Benzo(a)anthracene | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 49 | 126 | 20 |
| Chrysene | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 50 | 124 | 20 |
| Benzo(b)fluoranthene | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 45 | 132 | 20 |
| Benzo(k)fluoranthene | 1100 | 0 | 1000 | ug/Kg | 91 | | 2 | | 47 | 132 | 20 |
| Benzo(a)pyrene | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 45 | 129 | 20 |
| Indeno(1,2,3-cd)pyrene | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 45 | 133 | 20 |
| Dibenz(a,h)anthracene | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 45 | 134 | 20 |
| Benzo(g,h,i)perylene | 1100 | 0 | 1100 | ug/Kg | 100 | | 11 | | 43 | 134 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2259 **Analytical Method:** 8270E

**Client:** Nobis Group **DataFile:** BF142703.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168351BS | Naphthalene | 1700 | 1600 | ug/Kg | 94 | | | | 35 | 123 | |
| | 2-Methylnaphthalene | 1700 | 1700 | ug/Kg | 100 | | | | 38 | 122 | |
| | Acenaphthylene | 1700 | 1600 | ug/Kg | 94 | | | | 32 | 132 | |
| | Acenaphthene | 1700 | 1700 | ug/Kg | 100 | | | | 40 | 123 | |
| | Fluorene | 1700 | 1500 | ug/Kg | 88 | | | | 43 | 125 | |
| | Phenanthrene | 1700 | 1600 | ug/Kg | 94 | | | | 50 | 121 | |
| | Anthracene | 1700 | 1600 | ug/Kg | 94 | | | | 47 | 123 | |
| | Fluoranthene | 1700 | 1700 | ug/Kg | 100 | | | | 50 | 127 | |
| | Pyrene | 1700 | 1800 | ug/Kg | 106 | | | | 47 | 127 | |
| | Benzo(a)anthracene | 1700 | 1700 | ug/Kg | 100 | | | | 49 | 126 | |
| | Chrysene | 1700 | 1600 | ug/Kg | 94 | | | | 50 | 124 | |
| | Benzo(b)fluoranthene | 1700 | 2100 | ug/Kg | 124 | | | | 45 | 132 | |
| | Benzo(k)fluoranthene | 1700 | 2000 | ug/Kg | 118 | | | | 47 | 132 | |
| | Benzo(a)pyrene | 1700 | 1700 | ug/Kg | 100 | | | | 45 | 129 | |
| | Indeno(1,2,3-cd)pyrene | 1700 | 2100 | ug/Kg | 124 | | | | 45 | 133 | |
| | Dibenz(a,h)anthracene | 1700 | 2100 | ug/Kg | 124 | | | | 45 | 134 | |
| | Benzo(g,h,i)perylene | 1700 | 2100 | ug/Kg | 124 | | | | 43 | 134 | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168351BL

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q2259 SAS No.: Q2259 SDG NO.: Q2259

Lab File ID: BF142702.D Lab Sample ID: PB168351BL

Instrument ID: BNA_F Date Extracted: 06/09/2025

Matrix: (soil/water) SOIL Date Analyzed: 06/10/2025

Level: (low/med) LOW Time Analyzed: 10:08

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB168351BS | PB168351BS | BF142703.D | 06/10/2025 |
| OU4-PCS-TC-36-060525 | Q2259-01 | BF142704.D | 06/10/2025 |
| OU4-PCS-TC-37-060525 | Q2259-03 | BF142705.D | 06/10/2025 |
| WC-5MS | Q2266-05MS | BF142707.D | 06/10/2025 |
| WC-5MSD | Q2266-05MSD | BF142708.D | 06/10/2025 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM SAS No.: Q2259 SDG NO.: Q2259

Lab File ID: BF142687.D DFTPP Injection Date: 06/09/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:37

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 37.5 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 1.7 ) 1 |
| 69 | Mass 69 relative abundance | 33.8 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 46.4 |
| 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 | 28.5 |
| 365 | Greater than 1% of mass 198 | 3.5 |
| 441 | Present, but less than mass 443 | 17.7 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.6 (19.6) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF142689.D | 06/09/2025 | 13:09 |
| SSTDICC005 | SSTDICC005 | BF142690.D | 06/09/2025 | 13:38 |
| SSTDICC010 | SSTDICC010 | BF142691.D | 06/09/2025 | 14:07 |
| SSTDICC020 | SSTDICC020 | BF142692.D | 06/09/2025 | 14:36 |
| SSTDICCC040 | SSTDICCC040 | BF142693.D | 06/09/2025 | 15:05 |
| SSTDICC050 | SSTDICC050 | BF142694.D | 06/09/2025 | 15:34 |
| SSTDICC060 | SSTDICC060 | BF142695.D | 06/09/2025 | 16:03 |
| SSTDICC080 | SSTDICC080 | BF142696.D | 06/09/2025 | 16:32 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM SAS No.: Q2259 SDG NO.: Q2259

Lab File ID: BF142700.D DFTPP Injection Date: 06/10/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:10

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 36.3 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 32.9 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.7 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 45.4 |
| 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 | 6.5 |
| 275 | 10.0 - 60.0% of mass 198 | 27.5 |
| 365 | Greater than 1% of mass 198 | 3.6 |
| 441 | Present, but less than mass 443 | 16.8 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.3 (19.3) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF142701.D | 06/10/2025 | 09:39 |
| PB168351BL | PB168351BL | BF142702.D | 06/10/2025 | 10:08 |
| PB168351BS | PB168351BS | BF142703.D | 06/10/2025 | 10:37 |
| OU4-PCS-TC-36-060525 | Q2259-01 | BF142704.D | 06/10/2025 | 11:13 |
| OU4-PCS-TC-37-060525 | Q2259-03 | BF142705.D | 06/10/2025 | 11:42 |
| WC-5MS | Q2266-05MS | BF142707.D | 06/10/2025 | 12:41 |
| WC-5MSD | Q2266-05MSD | BF142708.D | 06/10/2025 | 13:10 |
| SSTDCCC040EC | SSTDCCC040 | BF142709.D | 06/10/2025 | 13:44 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2259 SAS No.: Q2259 SDG NO.: Q2259

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/10/2025

Lab File ID: BF142701.D Time Analyzed: 09:39

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 82620 | 6.892 | 309806 | 8.18 | 166836 | 9.94 |
| | UPPER LIMIT | 165240 | 7.392 | 619612 | 8.681 | 333672 | 10.439 |
| | LOWER LIMIT | 41310 | 6.392 | 154903 | 7.681 | 83418 | 9.439 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168351BL | 92057 | 6.89 | 355567 | 8.18 | 195730 | 9.93 |
| 02 | PB168351BS | 87982 | 6.89 | 355357 | 8.18 | 234579 | 9.94 |
| 03 | OU4-PCS-TC-36-060525 | 69278 | 6.89 | 257460 | 8.18 | 139574 | 9.93 |
| 04 | OU4-PCS-TC-37-060525 | 75387 | 6.89 | 295072 | 8.18 | 163176 | 9.93 |
| 05 | WC-5MS | 72888 | 6.89 | 273042 | 8.18 | 145075 | 9.93 |
| 06 | WC-5MSD | 72257 | 6.89 | 275500 | 8.18 | 142711 | 9.93 |

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2259 SAS No.: Q2259 SDG NO.: Q2259

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/10/2025

Lab File ID: BF142701.D Time Analyzed: 09:39

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 293543 | 11.427 | 175532 | 14.068 | 161327 | 15.562 |
| | UPPER LIMIT | 587086 | 11.927 | 351064 | 14.568 | 322654 | 16.062 |
| | LOWER LIMIT | 146772 | 10.927 | 87766 | 13.568 | 80663.5 | 15.062 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168351BL | 351690 | 11.42 | 279030 | 14.07 | 202587 | 15.56 |
| 02 | PB168351BS | 361738 | 11.43 | 224252 | 14.07 | 175871 | 15.56 |
| 03 | OU4-PCS-TC-36-060525 | 225221 | 11.42 | 140912 | 14.06 | 168989 | 15.56 |
| 04 | OU4-PCS-TC-37-060525 | 267108 | 11.42 | 167914 | 14.06 | 224529 | 15.56 |
| 05 | WC-5MS | 232310 | 11.42 | 148312 | 14.07 | 175165 | 15.56 |
| 06 | WC-5MSD | 234155 | 11.42 | 165870 | 14.07 | 192181 | 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.

# QC SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Nobis Group | | | Date Collected: | |
| Project: | Raymark Superfund Site | | | Date Received: | |
| Client Sample ID: | PB168351BL | | | SDG No.: | Q2259 |
| Lab Sample ID: | PB168351BL | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142702.D | 1 | 06/09/25 09:40 | 06/10/25 10:08 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 91-20-3 | Naphthalene | 0.13 | U | 0.023 | 0.13 | 0.17 | mg/Kg |
| 91-57-6 | 2-Methylnaphthalene | 0.13 | U | 0.026 | 0.13 | 0.17 | mg/Kg |
| 208-96-8 | Acenaphthylene | 0.13 | U | 0.029 | 0.13 | 0.17 | mg/Kg |
| 83-32-9 | Acenaphthene | 0.13 | U | 0.021 | 0.13 | 0.17 | mg/Kg |
| 86-73-7 | Fluorene | 0.13 | U | 0.025 | 0.13 | 0.17 | mg/Kg |
| 85-01-8 | Phenanthrene | 0.13 | U | 0.021 | 0.13 | 0.17 | mg/Kg |
| 120-12-7 | Anthracene | 0.13 | U | 0.033 | 0.13 | 0.17 | mg/Kg |
| 206-44-0 | Fluoranthene | 0.13 | U | 0.030 | 0.13 | 0.17 | mg/Kg |
| 129-00-0 | Pyrene | 0.13 | U | 0.036 | 0.13 | 0.17 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 0.13 | U | 0.023 | 0.13 | 0.17 | mg/Kg |
| 218-01-9 | Chrysene | 0.13 | U | 0.020 | 0.13 | 0.17 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 0.13 | U | 0.019 | 0.13 | 0.17 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 0.13 | U | 0.022 | 0.13 | 0.17 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 0.13 | U | 0.030 | 0.13 | 0.17 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.13 | U | 0.029 | 0.13 | 0.17 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.13 | U | 0.027 | 0.13 | 0.17 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 0.13 | U | 0.026 | 0.13 | 0.17 | mg/Kg |
| **SURROGATES** | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 80.5 | | 37 - 122 | | 81% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 78.5 | | 44 - 115 | | 78% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 72.4 | | 54 - 127 | | 72% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 92100 | 6.892 | | | | |
| 1146-65-2 | Naphthalene-d8 | 356000 | 8.175 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 196000 | 9.933 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 352000 | 11.422 | | | | |
| 1719-03-5 | Chrysene-d12 | 279000 | 14.068 | | | | |
| 1520-96-3 | Perylene-d12 | 203000 | 15.562 | | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Nobis Group | | | Date Collected: | |
| Project: | Raymark Superfund Site | | | Date Received: | |
| Client Sample ID: | PB168351BL | | | SDG No.: | Q2259 |
| Lab Sample ID: | PB168351BL | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142702.D | 1 | 06/09/25 09:40 | 06/10/25 10:08 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | 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

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Nobis Group | | | Date Collected: | |
| Project: | Raymark Superfund Site | | | Date Received: | |
| Client Sample ID: | PB168351BS | | | SDG No.: | Q2259 |
| Lab Sample ID: | PB168351BS | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142703.D | 1 | 06/09/25 09:40 | 06/10/25 10:37 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 91-20-3 | Naphthalene | 1.60 | | 0.023 | 0.13 | 0.17 | mg/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1.70 | | 0.026 | 0.13 | 0.17 | mg/Kg |
| 208-96-8 | Acenaphthylene | 1.60 | | 0.029 | 0.13 | 0.17 | mg/Kg |
| 83-32-9 | Acenaphthene | 1.70 | | 0.021 | 0.13 | 0.17 | mg/Kg |
| 86-73-7 | Fluorene | 1.50 | | 0.025 | 0.13 | 0.17 | mg/Kg |
| 85-01-8 | Phenanthrene | 1.60 | | 0.021 | 0.13 | 0.17 | mg/Kg |
| 120-12-7 | Anthracene | 1.60 | | 0.033 | 0.13 | 0.17 | mg/Kg |
| 206-44-0 | Fluoranthene | 1.70 | | 0.030 | 0.13 | 0.17 | mg/Kg |
| 129-00-0 | Pyrene | 1.80 | | 0.036 | 0.13 | 0.17 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 1.70 | | 0.023 | 0.13 | 0.17 | mg/Kg |
| 218-01-9 | Chrysene | 1.60 | | 0.020 | 0.13 | 0.17 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 2.10 | | 0.019 | 0.13 | 0.17 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 2.00 | | 0.022 | 0.13 | 0.17 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 1.70 | | 0.030 | 0.13 | 0.17 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 2.10 | | 0.029 | 0.13 | 0.17 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 2.10 | | 0.027 | 0.13 | 0.17 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 2.10 | | 0.026 | 0.13 | 0.17 | mg/Kg |
| **SURROGATES** | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 81.6 | | 37 - 122 | | 82% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 78.3 | | 44 - 115 | | 78% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 90.8 | | 54 - 127 | | 91% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 88000 | 6.893 | | | | |
| 1146-65-2 | Naphthalene-d8 | 355000 | 8.181 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 235000 | 9.939 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 362000 | 11.428 | | | | |
| 1719-03-5 | Chrysene-d12 | 224000 | 14.069 | | | | |
| 1520-96-3 | Perylene-d12 | 176000 | 15.563 | | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Nobis Group | | | Date Collected: | |
| Project: | Raymark Superfund Site | | | Date Received: | |
| Client Sample ID: | PB168351BS | | | SDG No.: | Q2259 |
| Lab Sample ID: | PB168351BS | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142703.D | 1 | 06/09/25 09:40 | 06/10/25 10:37 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | 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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Nobis Group | Date Collected: | 06/06/25 |
| Project: | Raymark Superfund Site | Date Received: | 06/06/25 |
| Client Sample ID: | WC-5MS | SDG No.: | Q2259 |
| Lab Sample ID: | Q2266-05MS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 87.6 |
| Sample Wt/Vol: | 50.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142707.D | 1 | 06/09/25 09:40 | 06/10/25 12:41 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 91-20-3 | Naphthalene | 1.00 | | 0.016 | 0.089 | 0.12 | mg/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1.00 | | 0.018 | 0.089 | 0.12 | mg/Kg |
| 208-96-8 | Acenaphthylene | 1.00 | | 0.020 | 0.089 | 0.12 | mg/Kg |
| 83-32-9 | Acenaphthene | 1.10 | | 0.015 | 0.089 | 0.12 | mg/Kg |
| 86-73-7 | Fluorene | 0.97 | | 0.017 | 0.089 | 0.12 | mg/Kg |
| 85-01-8 | Phenanthrene | 1.00 | | 0.014 | 0.089 | 0.12 | mg/Kg |
| 120-12-7 | Anthracene | 1.00 | | 0.023 | 0.089 | 0.12 | mg/Kg |
| 206-44-0 | Fluoranthene | 1.00 | | 0.021 | 0.089 | 0.12 | mg/Kg |
| 129-00-0 | Pyrene | 1.00 | | 0.025 | 0.089 | 0.12 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 1.10 | | 0.016 | 0.089 | 0.12 | mg/Kg |
| 218-01-9 | Chrysene | 1.10 | | 0.014 | 0.089 | 0.12 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1.10 | | 0.013 | 0.089 | 0.12 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 0.98 | | 0.015 | 0.089 | 0.12 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 1.00 | | 0.020 | 0.089 | 0.12 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.10 | | 0.020 | 0.089 | 0.12 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.10 | | 0.019 | 0.089 | 0.12 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 0.99 | | 0.018 | 0.089 | 0.12 | mg/Kg |
| **SURROGATES** | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 49.8 | | 37 - 122 | | 50% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 50.7 | | 44 - 115 | | 51% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 52.4 | * | 54 - 127 | | 52% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 72900 | 6.892 | | | | |
| 1146-65-2 | Naphthalene-d8 | 273000 | 8.181 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 145000 | 9.933 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 232000 | 11.422 | | | | |
| 1719-03-5 | Chrysene-d12 | 148000 | 14.068 | | | | |
| 1520-96-3 | Perylene-d12 | 175000 | 15.562 | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Nobis Group | Date Collected: | 06/06/25 |
| Project: | Raymark Superfund Site | Date Received: | 06/06/25 |
| Client Sample ID: | WC-5MS | SDG No.: | Q2259 |
| Lab Sample ID: | Q2266-05MS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 87.6 |
| Sample Wt/Vol: | 50.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142707.D | 1 | 06/09/25 09:40 | 06/10/25 12:41 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | 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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Nobis Group | Date Collected: | 06/06/25 |
| Project: | Raymark Superfund Site | Date Received: | 06/06/25 |
| Client Sample ID: | WC-5MSD | SDG No.: | Q2259 |
| Lab Sample ID: | Q2266-05MSD | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 87.6 |
| Sample Wt/Vol: | 50.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group3 |
| 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 |
|---|---|---|---|---|
| BF142708.D | 1 | 06/09/25 09:40 | 06/10/25 13:10 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 91-20-3 | Naphthalene | 1.10 | | 0.016 | 0.089 | 0.12 | mg/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1.00 | | 0.018 | 0.089 | 0.12 | mg/Kg |
| 208-96-8 | Acenaphthylene | 1.10 | | 0.020 | 0.089 | 0.12 | mg/Kg |
| 83-32-9 | Acenaphthene | 1.20 | | 0.015 | 0.089 | 0.12 | mg/Kg |
| 86-73-7 | Fluorene | 1.00 | | 0.017 | 0.089 | 0.12 | mg/Kg |
| 85-01-8 | Phenanthrene | 1.10 | | 0.014 | 0.089 | 0.12 | mg/Kg |
| 120-12-7 | Anthracene | 1.10 | | 0.023 | 0.089 | 0.12 | mg/Kg |
| 206-44-0 | Fluoranthene | 1.20 | | 0.021 | 0.089 | 0.12 | mg/Kg |
| 129-00-0 | Pyrene | 1.10 | | 0.025 | 0.089 | 0.12 | mg/Kg |
| 56-55-3 | Benzo(a)anthracene | 1.10 | | 0.016 | 0.089 | 0.12 | mg/Kg |
| 218-01-9 | Chrysene | 1.10 | | 0.014 | 0.089 | 0.12 | mg/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1.20 | | 0.013 | 0.089 | 0.12 | mg/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 1.00 | | 0.015 | 0.089 | 0.12 | mg/Kg |
| 50-32-8 | Benzo(a)pyrene | 1.20 | | 0.020 | 0.089 | 0.12 | mg/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.20 | | 0.020 | 0.089 | 0.12 | mg/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.20 | | 0.019 | 0.089 | 0.12 | mg/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1.10 | | 0.018 | 0.089 | 0.12 | mg/Kg |
| **SURROGATES** | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 51.2 | | 37 - 122 | | 51% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 53.3 | | 44 - 115 | | 53% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 54.3 | | 54 - 127 | | 54% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 72300 | 6.892 | | | | |
| 1146-65-2 | Naphthalene-d8 | 276000 | 8.181 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 143000 | 9.933 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 234000 | 11.422 | | | | |
| 1719-03-5 | Chrysene-d12 | 166000 | 14.068 | | | | |
| 1520-96-3 | Perylene-d12 | 192000 | 15.562 | | | | |

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# Report of Analysis

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| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF142708.D | 1 | 06/09/25 09:40 | 06/10/25 13:10 | PB168351 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | 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
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D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

# CALIBRATION SUMMARY

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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q2259 SAS No.: Q2259 SDG No.: Q2259

Instrument ID: BNA_F Calibration Date(s): 06/09/2025 06/09/2025

Calibration Time(s): 13:09 16:32

LAB FILE ID: RRF2.5 = BF142689.D RRF005 = BF142690.D RRF010 = BF142691.D
RRF020 = BF142692.D RRF040 = BF142693.D RRF050 = BF142694.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 1.193 | 1.215 | 1.304 | 1.144 | 1.233 | 1.178 | 7.2 |
| Phenol-d6 | | 1.416 | 1.375 | 1.356 | 1.383 | 1.460 | 1.381 | 3.4 |
| Nitrobenzene-d5 | | 0.349 | 0.364 | 0.367 | 0.353 | 0.388 | 0.364 | 4.4 |
| Naphthalene | | 1.064 | 1.003 | 1.008 | 0.971 | 1.005 | 0.986 | 5.4 |
| 2-Methylnaphthalene | | 0.643 | 0.663 | 0.661 | 0.562 | 0.637 | 0.620 | 7.4 |
| 2-Fluorobiphenyl | | 1.689 | 1.612 | 1.526 | 1.372 | 1.423 | 1.462 | 10.8 |
| Acenaphthylene | | 2.008 | 2.000 | 2.035 | 1.894 | 1.980 | 1.931 | 5.6 |
| Acenaphthene | | 1.269 | 1.219 | 1.117 | 1.172 | 1.238 | 1.181 | 5.4 |
| Fluorene | | 1.415 | 1.486 | 1.218 | 1.293 | 1.475 | 1.355 | 8.0 |
| 2,4,6-Tribromophenol | | 0.222 | 0.222 | 0.201 | 0.218 | 0.249 | 0.225 | 6.8 |
| Phenanthrene | | 1.173 | 1.115 | 1.118 | 1.032 | 1.085 | 1.069 | 7.2 |
| Anthracene | | 1.213 | 1.157 | 1.145 | 1.077 | 1.147 | 1.110 | 7.0 |
| Fluoranthene | | 1.261 | 1.136 | 1.045 | 1.180 | 1.025 | 1.071 | 12.1 |
| Pyrene | | 1.743 | 1.587 | 1.588 | 1.466 | 1.723 | 1.630 | 7.7 |
| Terphenyl-d14 | | 1.427 | 1.275 | 1.289 | 1.098 | 1.302 | 1.265 | 9.9 |
| Benzo(a)anthracene | | 1.322 | 1.253 | 1.356 | 1.287 | 1.345 | 1.298 | 4.1 |
| Chrysene | | 1.327 | 1.226 | 1.196 | 1.200 | 1.265 | 1.229 | 4.4 |
| Benzo(b)fluoranthene | | 1.196 | 1.122 | 1.277 | 1.136 | 1.323 | 1.195 | 6.7 |
| Benzo(k)fluoranthene | | 1.396 | 1.063 | 1.092 | 1.185 | 1.086 | 1.124 | 11.8 |
| Benzo(a)pyrene | | 1.193 | 1.101 | 1.120 | 1.103 | 1.162 | 1.120 | 4.1 |
| Indeno(1,2,3-cd)pyrene | | 1.273 | 1.361 | 1.426 | 1.416 | 1.545 | 1.415 | 7.2 |
| Dibenzo(a,h)anthracene | | 0.995 | 1.098 | 1.163 | 1.129 | 1.252 | 1.139 | 8.4 |
| Benzo(g,h,i)perylene | | 1.068 | 1.099 | 1.149 | 1.145 | 1.414 | 1.179 | 10.9 |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q2259 SAS No.: Q2259 SDG No.: Q2259

Instrument ID: BNA_F Calibration Date/Time: 06/10/2025 09:39

Lab File ID: BF142701.D Init. Calib. Date(s): 06/09/2025 06/09/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:09 16:32

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.178 | 1.169 | | -0.8 | |
| Phenol-d6 | 1.381 | 1.389 | | 0.6 | |
| Nitrobenzene-d5 | 0.364 | 0.361 | | -0.8 | |
| Naphthalene | 0.986 | 0.964 | | -2.2 | |
| 2-Methylnaphthalene | 0.620 | 0.597 | | -3.7 | |
| 2-Fluorobiphenyl | 1.462 | 1.415 | | -3.2 | |
| Acenaphthylene | 1.931 | 1.879 | | -2.7 | |
| Acenaphthene | 1.181 | 1.157 | | -2.0 | 20.0 |
| Fluorene | 1.355 | 1.285 | | -5.2 | |
| 2,4,6-Tribromophenol | 0.225 | 0.215 | | -4.4 | |
| Phenanthrene | 1.069 | 1.023 | | -4.3 | |
| Anthracene | 1.110 | 1.066 | | -4.0 | |
| Fluoranthene | 1.071 | 1.067 | | -0.4 | 20.0 |
| Pyrene | 1.630 | 1.770 | | 8.6 | |
| Terphenyl-d14 | 1.265 | 1.356 | | 7.2 | |
| Benzo(a)anthracene | 1.298 | 1.301 | | 0.2 | |
| Chrysene | 1.229 | 1.150 | | -6.4 | |
| Benzo(b)fluoranthene | 1.195 | 1.209 | | 1.2 | |
| Benzo(k)fluoranthene | 1.124 | 1.099 | | -2.2 | |
| Benzo(a)pyrene | 1.120 | 1.103 | | -1.5 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.415 | 1.445 | | 2.1 | |
| Dibenzo(a,h)anthracene | 1.139 | 1.178 | | 3.4 | |
| Benzo(g,h,i)perylene | 1.179 | 1.192 | | 1.1 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q2259 SAS No.: Q2259 SDG No.: Q2259

Instrument ID: BNA_F Calibration Date/Time: 06/10/2025 13:44

Lab File ID: BF142709.D Init. Calib. Date(s): 06/09/2025 06/09/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 13:09 16:32

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.178 | 1.176 | | -0.2 | 50.0 |
| Phenol-d6 | 1.381 | 1.390 | | 0.7 | 50.0 |
| Nitrobenzene-d5 | 0.364 | 0.362 | | -0.5 | 50.0 |
| Naphthalene | 0.986 | 0.968 | | -1.8 | 50.0 |
| 2-Methylnaphthalene | 0.620 | 0.605 | | -2.4 | 50.0 |
| 2-Fluorobiphenyl | 1.462 | 1.453 | | -0.6 | 50.0 |
| Acenaphthylene | 1.931 | 1.886 | | -2.3 | 50.0 |
| Acenaphthene | 1.181 | 1.160 | | -1.8 | 50.0 |
| Fluorene | 1.355 | 1.273 | | -6.1 | 50.0 |
| 2,4,6-Tribromophenol | 0.225 | 0.209 | | -7.1 | 50.0 |
| Phenanthrene | 1.069 | 1.051 | | -1.7 | 50.0 |
| Anthracene | 1.110 | 1.086 | | -2.2 | 50.0 |
| Fluoranthene | 1.071 | 0.973 | | -9.1 | 50.0 |
| Pyrene | 1.630 | 1.723 | | 5.7 | 50.0 |
| Terphenyl-d14 | 1.265 | 1.333 | | 5.4 | 50.0 |
| Benzo(a)anthracene | 1.298 | 1.263 | | -2.7 | 50.0 |
| Chrysene | 1.229 | 1.229 | | 0.0 | 50.0 |
| Benzo(b)fluoranthene | 1.195 | 1.191 | | -0.3 | 50.0 |
| Benzo(k)fluoranthene | 1.124 | 0.977 | | -13.1 | 50.0 |
| Benzo(a)pyrene | 1.120 | 1.099 | | -1.9 | 50.0 |
| Indeno(1,2,3-cd)pyrene | 1.415 | 1.598 | | 12.9 | 50.0 |
| Dibenzo(a,h)anthracene | 1.139 | 1.299 | | 14.0 | 50.0 |
| Benzo(g,h,i)perylene | 1.179 | 1.302 | | 10.4 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.