SDMS DOCID # 1152630

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MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3
USEPA Region 9

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3
USEPA Region 9

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Project Manager
Environmental Services Assistance Team (ESAT) Region 9
ICF International

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106079

DATE: June 9, 2015

SUBJECT: Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

| | |
|---|---|
| Site: | Jervis B. Webb Co. |
| Site Account No.: | 09 WR QB 00 |
| Case No.: | 45139 |
| SDG No.: | Y9SN2 |
| Laboratory: | CompuChem (LIBRTY) |
| Analysis: | Semivolatiles |
| Samples: | 20 Soil Samples |
| Collection Date: | March 9 and 11, 2015 |
| Reviewer: | Santiago Lee, ESAT |

EXES Data Manager has been updated; the dynamic deliverables will be regenerated upon completion of review for the other analyses.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Cynthia Gurley, CLP PO USEPA Region 4
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action
SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - **Tier 3**

Case No.: 45139
SDG No.: Y9SN2
Site: Jervis B. Webb
Laboratory: CompuChem (LIBRTY)
Analysis: Semivolatiles
Reviewer: Santiago Lee, ESAT
Date: June 9, 2015

## I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guidelines (NFG) Report #06, *Analytical Sample Listing*.

Field QC

| | |
|---|---|
| Field Blanks (FB): | Not Collected |
| Equipment Blanks (EB): | Not Collected |
| Background Samples (BG): | Not Collected |
| Field Duplicates (D1): | Y9SN5 and Y9SN6 |
| Field Duplicates (D2): | Y9SP5 and Y9SP6 |
| Field Duplicates (D3): | Y9SP8 and Y9SP9 |

Tables

| | |
|---|---|
| 1A: | Analytical Results with Qualifications |
| 1B: | Data Qualifier Definitions for Organic Data Review |

CLP PO Action

None.

Sampling Issues

Sample Y9SQ0 is not listed on the chain of custody records (COCs).

Additional Comments

The benzo(b)fluoranthene present in sample Y9SN3 was incorrectly reported as nondetected (i.e., a false negatives). The laboratory submitted revised data (Form I and quantitation report) and mass spectra upon request, on 06/01/15 (see Table 1A for concentration). The revised result has been entered into the EXES Data Manager.

The extract for sample Y9SN2 was analyzed at a 10-fold dilution due to a hydrocarbon matrix. The quantitation limits for Y9SN2 in Table 1A have been raised to account for the dilution.

In addition to laboratory artifacts (retention times of 16.6, 17.5, and 27.0 minutes), tentatively identified compounds (TICs) are found in field samples Y9SN2 through Y9SN5, Y9SN7, Y9SP0, Y9SP5 through Y9SP9, Y9SQ1, Y9SQ2, and Y9SX0 through Y9SX2 (see attached Form 1Ks).

The laboratory performed manual peak integration on chromatograms for some calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

## II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

| | Parameter | Acceptable | Comment |
|---|---|---|---|
| 1 | Holding Time/Preservation | Yes | |
| 2 | GC/MS Tune/GC Performance | Yes | |
| 3 | Initial Calibration | No | C |
| 4 | Continuing Calibration Verification (CCV) | No | D |
| 5 | Laboratory Blanks | Yes | B |
| 6 | Field Blanks | N/A | |
| 7 | Deuterated Monitoring Compounds (DMCs) | No | E |
| 8 | Matrix Spike/Matrix Spike Duplicates (MS/MSDs) | Yes | |
| 9 | Internal Standards | Yes | |
| 10 | GPC Performance Check | Yes | |
| 11 | Compound Identification | Yes | |
| 12 | Compound Quantitation | Yes | A |
| 13 | System Performance | Yes | |
| 14 | Field Duplicate Sample Analysis | No | F |

N/A = Not Applicable

## III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged “J” in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following result is qualified as nondetected due to method blank contamination and is flagged “U” in Table 1A.

- Acetophenone in sample Y9SP0.

Acetophenone is present in method blank SBLKSB (see Table 1A for concentration).

C. Results for the following analyte are qualified as estimated due to a large percent relative standard deviation (%RSD) in initial calibration and are flagged "UJ" in Table 1A.

- Pentachlorophenol in samples Y9SN2, Y9SP5, Y9SP6, Y9SQ1, Y9SW9, and Y9SX0.

A %RSD of 35.5% is reported for pentachlorophenol in the 03/19/15 initial calibration, which exceeds the 20.0% validation criterion. In addition, the relative response factor (RRF) for CRQL standard (at 10 µg/L) of 0.053 is below the average RRF of 0.091, indicating low sensitivity at the CRQL.

D. Results for the following analyte are qualified as estimated due to a large percent difference (%D) in associated CCV and are flagged "UJ" in Table 1A.

- Pentachlorophenol in samples Y9SP8, Y9SP9, Y9SQ0, Y9SQ2, Y9SX1, and Y9SX2.

A %D of -30.7% is reported for pentachlorophenol in the 03/17/15 19:22 CCV, which exceeds the ±25.0% validation criterion for opening CCVs.

E. Nondetected results for the following analytes are qualified as estimated due to low DMC recoveries and are flagged "UJ" in Table 1A.

{4-Methylphenol-d8}
- 2-Methylphenol, 4-methylphenol, and 2,4-dimethylphenol in samples Y9SN7, Y9SP7, Y9SP8, Y9SP9, Y9SQ1, and Y9SX0.

The DMC recoveries outside QC limits are shown below.

| Sample | DMC | % Recovery | QC Limit |
|---|---|---|---|
| Y9SN7 | 4-Methylphenol-d8 | 5 | 8-100 |
| Y9SP7 | 4-Methylphenol-d8 | 2 | 8-100 |
| Y9SP8 | 4-Methylphenol-d8 | 2 | 8-100 |
| Y9SP9 | 4-Methylphenol-d8 | 7 | 8-100 |
| Y9SQ1 | 4-Methylphenol-d8 | 1 | 8-100 |
| Y9SX0 | 4-Methylphenol-d8 | 4 | 8-100 |

Since qualified results are nondetected, false negatives may exist. Samples listed above were not re-extracted.

The reviewer notes that the following DMC recoveries are above the lower acceptance limit but below 10%:
(1) 4-Methylphenol-d8 in samples Y9SP0 (8%) and Y9SW9 (8%) and
(2) 4-Chloroaniline-d4 in samples Y9SN3 (7%), Y9SP0 (1%), Y9SP5 (6%), Y9SP6 (4%), Y9SP7 (6%), Y9SW9 (4%), Y9SQ1 (3%), and Y9SX0 (9%).
False negatives may exist for the nondetected results of associated analytes in the samples listed above. Analytes associated with the DMC 4-chloroaniline-d4 are 4-chloroaniline, hexachlorocyclopentadiene, and 3,3'-dichlorobenzidine.

F. In the analysis of the field duplicate pairs, the following outlier (relative percent difference greater than 25%) is reported.

| Analyte | Y9SP5 (D2) Concentration, µg/kg | Y9SP6 (D2) Concentration, µg/kg | RPD |
|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 610 | 94 J | 147 |

Data users should note that bis(2-ehtylhexyl)phthalate is a common laboratory contaminant. The effect on data usability is not known.

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample** | **Y9SN2** | | | **Y9SN3** | | | **Y9SN4** | | | **Y9SN5 (D1)** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | **N/A** | | | **N/A** | | | **N/A** | | | **N/A** | | |
| **Type** | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | |
| **Matrix/Level** | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | |
| **Dilution Factor** | **10.0** | | | **1.0** | | | **1.0** | | | **1.0** | | |
| **% Moisture** | **6.02** | | | **6.55** | | | **13.49** | | | **9.81** | | |
| **Units** | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | |
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| Benzaldehyde | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Phenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Bis (2-Chloroethyl) ether | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2-Chlorophenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2-Methylphenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2,2-Oxybis (1-Chloropropane) | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Acetophenone | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 4-Methylphenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| N-Nitroso-di-n-propylamine | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Hexachloroethane | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Nitrobenzene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Isophorone | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2-Nitrophenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2,4-Dimethylphenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Bis (2-Chloroethoxy) methane | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2,4-Dichlorophenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Naphthalene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 4-Chloroaniline | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Hexachlorobutadiene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Caprolactam | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 4-Chloro-3-methylphenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2-Methylnaphthalene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Hexachlorocyclopentadiene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2,4,6-Trichlorophenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2,4,5-Trichlorophenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 1,1'-Biphenyl | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2-Chloronaphthalene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2-Nitroaniline | 3500 | U | | 350 | U | | 380 | U | | 360 | U | |
| Dimethylphthalate | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2,6-Dinitrotoluene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Acenaphthylene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 3-Nitroaniline | 3500 | U | | 350 | U | | 380 | U | | 360 | U | |
| Acenaphthene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample** | **Y9SN2** | | | **Y9SN3** | | | **Y9SN4** | | | **Y9SN5 (D1)** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | **N/A** | | | **N/A** | | | **N/A** | | | **N/A** | | |
| **Type** | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | |
| **Matrix/Level** | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | |
| **Dilution Factor** | **10.0** | | | **1.0** | | | **1.0** | | | **1.0** | | |
| **% Moisture** | **6.02** | | | **6.55** | | | **13.49** | | | **9.81** | | |
| **Units** | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | |
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| 2,4-Dinitrophenol | 3500 | U | | 350 | U | | 380 | U | | 360 | U | |
| 4-Nitrophenol | 3500 | U | | 350 | U | | 380 | U | | 360 | U | |
| Dibenzofuran | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2,4-Dinitrotoluene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Diethylphthalate | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Fluorene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 4-Chlorophenyl-phenylether | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 4-Nitroaniline | 3500 | U | | 350 | U | | 380 | U | | 360 | U | |
| 4,6-Dinitro-2-methylphenol | 3500 | U | | 350 | U | | 380 | U | | 360 | U | |
| N-Nitrosodiphenylamine | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 1,2,4,5-Tetrachlorobenzene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 4-Bromophenyl-phenylether | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Hexachlorobenzene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Atrazine | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Pentachlorophenol | 3500 | UJ | C | 350 | U | | 380 | U | | 360 | U | |
| Phenanthrene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Anthracene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Carbazole | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Di-n-butylphthalate | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Fluoranthene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Pyrene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Butylbenzylphthalate | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 3,3-Dichlorobenzidine | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Benzo (a) anthracene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Chrysene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Bis (2-Ethylhexyl) phthalate | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Di-n-octylphthalate | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Benzo (b) fluoranthene | 1800 | U | | 19 | J | A | 200 | U | | 190 | U | |
| Benzo (k) fluoranthene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Benzo (a) pyrene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Indeno (1,2,3-cd) pyrene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Dibenzo (a,h) anthracene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| Benzo (g,h,i) perylene | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |
| 2,3,4,6-Tetrachlorophenol | 1800 | U | | 180 | U | | 200 | U | | 190 | U | |

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample** | **Y9SN6 (D1)** | | | **Y9SN7** | | | **Y9SN8** | | | **Y9SP0** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | **N/A** | | | **N/A** | | | **N/A** | | | **JW-SB10-2** | | |
| **Type** | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | |
| **Matrix/Level** | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | |
| **Dilution Factor** | **1.0** | | | **1.0** | | | **1.0** | | | **1.0** | | |
| **% Moisture** | **20.88** | | | **19.93** | | | **7.47** | | | **5.74** | | |
| **Units** | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | |
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| Benzaldehyde | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Phenol | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Bis (2-Chloroethyl) ether | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2-Chlorophenol | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2-Methylphenol | 210 | U | | 210 | UJ | E | 180 | U | | 180 | U | |
| 2,2-Oxybis (1-Chloropropane) | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Acetophenone | 210 | U | | 210 | U | | 180 | U | | 180 | U | B |
| 4-Methylphenol | 210 | U | | 210 | UJ | E | 180 | U | | 180 | U | |
| N-Nitroso-di-n-propylamine | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Hexachloroethane | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Nitrobenzene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Isophorone | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2-Nitrophenol | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2,4-Dimethylphenol | 210 | U | | 210 | UJ | E | 180 | U | | 180 | U | |
| Bis (2-Chloroethoxy) methane | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2,4-Dichlorophenol | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Naphthalene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 4-Chloroaniline | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Hexachlorobutadiene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Caprolactam | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 4-Chloro-3-methylphenol | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2-Methylnaphthalene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Hexachlorocyclopentadiene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2,4,6-Trichlorophenol | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2,4,5-Trichlorophenol | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 1,1'-Biphenyl | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2-Chloronaphthalene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2-Nitroaniline | 420 | U | | 410 | U | | 360 | U | | 350 | U | |
| Dimethylphthalate | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2,6-Dinitrotoluene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Acenaphthylene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 3-Nitroaniline | 420 | U | | 410 | U | | 360 | U | | 350 | U | |
| Acenaphthene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample** | **Y9SN6 (D1)** | | | **Y9SN7** | | | **Y9SN8** | | | **Y9SP0** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | **N/A** | | | **N/A** | | | **N/A** | | | **JW-SB10-2** | | |
| **Type** | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | |
| **Matrix/Level** | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | |
| **Dilution Factor** | **1.0** | | | **1.0** | | | **1.0** | | | **1.0** | | |
| **% Moisture** | **20.88** | | | **19.93** | | | **7.47** | | | **5.74** | | |
| **Units** | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | |
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| 2,4-Dinitrophenol | 420 | U | | 410 | U | | 360 | U | | 350 | U | |
| 4-Nitrophenol | 420 | U | | 410 | U | | 360 | U | | 350 | U | |
| Dibenzofuran | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2,4-Dinitrotoluene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Diethylphthalate | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Fluorene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 4-Chlorophenyl-phenylether | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 4-Nitroaniline | 420 | U | | 410 | U | | 360 | U | | 350 | U | |
| 4,6-Dinitro-2-methylphenol | 420 | U | | 410 | U | | 360 | U | | 350 | U | |
| N-Nitrosodiphenylamine | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 1,2,4,5-Tetrachlorobenzene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 4-Bromophenyl-phenylether | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Hexachlorobenzene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Atrazine | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Pentachlorophenol | 420 | U | | 410 | U | | 360 | U | | 350 | U | |
| Phenanthrene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Anthracene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Carbazole | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Di-n-butylphthalate | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Fluoranthene | 210 | U | | 210 | U | | 180 | U | | 35 | J | A |
| Pyrene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Butylbenzylphthalate | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 3,3-Dichlorobenzidine | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Benzo (a) anthracene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Chrysene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Bis (2-Ethylhexyl) phthalate | 210 | U | | 210 | U | | 180 | U | | 360 | | |
| Di-n-octylphthalate | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Benzo (b) fluoranthene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Benzo (k) fluoranthene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Benzo (a) pyrene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Indeno (1,2,3-cd) pyrene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Dibenzo (a,h) anthracene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| Benzo (g,h,i) perylene | 210 | U | | 210 | U | | 180 | U | | 180 | U | |
| 2,3,4,6-Tetrachlorophenol | 210 | U | | 210 | U | | 180 | U | | 180 | U | |

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample** | **Y9SP5 (D2)** | | | **Y9SP6 (D2)** | | | **Y9SP7** | | | **Y9SP8 (D3)** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | **N/A** | | | **N/A** | | | **N/A** | | | **N/A** | | |
| **Type** | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | |
| **Matrix/Level** | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | |
| **Dilution Factor** | **1.0** | | | **1.0** | | | **1.0** | | | **1.0** | | |
| **% Moisture** | **7.91** | | | **7.71** | | | **6.84** | | | **13.74** | | |
| **Units** | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | |
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| Benzaldehyde | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Phenol | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Bis (2-Chloroethyl) ether | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2-Chlorophenol | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2-Methylphenol | 180 | U | | 180 | U | | 180 | UJ | E | 200 | UJ | E |
| 2,2-Oxybis (1-Chloropropane) | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Acetophenone | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 4-Methylphenol | 180 | U | | 180 | U | | 180 | UJ | E | 200 | UJ | E |
| N-Nitroso-di-n-propylamine | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Hexachloroethane | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Nitrobenzene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Isophorone | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2-Nitrophenol | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2,4-Dimethylphenol | 180 | U | | 180 | U | | 180 | UJ | E | 200 | UJ | E |
| Bis (2-Chloroethoxy) methane | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2,4-Dichlorophenol | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Naphthalene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 4-Chloroaniline | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Hexachlorobutadiene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Caprolactam | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 4-Chloro-3-methylphenol | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2-Methylnaphthalene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Hexachlorocyclopentadiene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2,4,6-Trichlorophenol | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2,4,5-Trichlorophenol | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 1,1'-Biphenyl | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2-Chloronaphthalene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2-Nitroaniline | 360 | U | | 360 | U | | 350 | U | | 380 | U | |
| Dimethylphthalate | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2,6-Dinitrotoluene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Acenaphthylene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 3-Nitroaniline | 360 | U | | 360 | U | | 350 | U | | 380 | U | |
| Acenaphthene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample** | **Y9SP5 (D2)** | | | **Y9SP6 (D2)** | | | **Y9SP7** | | | **Y9SP8 (D3)** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | **N/A** | | | **N/A** | | | **N/A** | | | **N/A** | | |
| **Type** | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | |
| **Matrix/Level** | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | |
| **Dilution Factor** | **1.0** | | | **1.0** | | | **1.0** | | | **1.0** | | |
| **% Moisture** | **7.91** | | | **7.71** | | | **6.84** | | | **13.74** | | |
| **Units** | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | |
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| 2,4-Dinitrophenol | 360 | U | | 360 | U | | 350 | U | | 380 | U | |
| 4-Nitrophenol | 360 | U | | 360 | U | | 350 | U | | 380 | U | |
| Dibenzofuran | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2,4-Dinitrotoluene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Diethylphthalate | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Fluorene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 4-Chlorophenyl-phenylether | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 4-Nitroaniline | 360 | U | | 360 | U | | 350 | U | | 380 | U | |
| 4,6-Dinitro-2-methylphenol | 360 | U | | 360 | U | | 350 | U | | 380 | U | |
| N-Nitrosodiphenylamine | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 1,2,4,5-Tetrachlorobenzene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 4-Bromophenyl-phenylether | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Hexachlorobenzene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Atrazine | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Pentachlorophenol | 360 | UJ | C | 360 | UJ | C | 350 | U | | 380 | UJ | D |
| Phenanthrene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Anthracene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Carbazole | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Di-n-butylphthalate | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Fluoranthene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Pyrene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Butylbenzylphthalate | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 3,3-Dichlorobenzidine | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Benzo (a) anthracene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Chrysene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Bis (2-Ethylhexyl) phthalate | 610 | | F | 94 | J | A,F | 180 | U | | 200 | U | |
| Di-n-octylphthalate | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Benzo (b) fluoranthene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Benzo (k) fluoranthene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Benzo (a) pyrene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Indeno (1,2,3-cd) pyrene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Dibenzo (a,h) anthracene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| Benzo (g,h,i) perylene | 180 | U | | 180 | U | | 180 | U | | 200 | U | |
| 2,3,4,6-Tetrachlorophenol | 180 | U | | 180 | U | | 180 | U | | 200 | U | |

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample** | **Y9SP9 (D3)** | | | **Y9SQ0** | | | **Y9SQ1** | | | **Y9SQ2** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | **N/A** | | | **N/A** | | | **N/A** | | | **N/A** | | |
| **Type** | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | |
| **Matrix/Level** | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | |
| **Dilution Factor** | **1.0** | | | **1.0** | | | **1.0** | | | **1.0** | | |
| **% Moisture** | **13.88** | | | **19.57** | | | **15.44** | | | **6.19** | | |
| **Units** | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | |
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| Benzaldehyde | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Phenol | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Bis (2-Chloroethyl) ether | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2-Chlorophenol | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2-Methylphenol | 190 | UJ | E | 210 | U | | 200 | UJ | E | 180 | U | |
| 2,2-Oxybis (1-Chloropropane) | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Acetophenone | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 4-Methylphenol | 190 | UJ | E | 210 | U | | 200 | UJ | E | 180 | U | |
| N-Nitroso-di-n-propylamine | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Hexachloroethane | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Nitrobenzene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Isophorone | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2-Nitrophenol | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2,4-Dimethylphenol | 190 | UJ | E | 210 | U | | 200 | UJ | E | 180 | U | |
| Bis (2-Chloroethoxy) methane | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2,4-Dichlorophenol | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Naphthalene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 4-Chloroaniline | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Hexachlorobutadiene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Caprolactam | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 4-Chloro-3-methylphenol | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2-Methylnaphthalene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Hexachlorocyclopentadiene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2,4,6-Trichlorophenol | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2,4,5-Trichlorophenol | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 1,1'-Biphenyl | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2-Chloronaphthalene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2-Nitroaniline | 380 | U | | 400 | U | | 390 | U | | 350 | U | |
| Dimethylphthalate | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2,6-Dinitrotoluene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Acenaphthylene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 3-Nitroaniline | 380 | U | | 400 | U | | 390 | U | | 350 | U | |
| Acenaphthene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample** | **Y9SP9 (D3)** | | | **Y9SQ0** | | | **Y9SQ1** | | | **Y9SQ2** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | **N/A** | | | **N/A** | | | **N/A** | | | **N/A** | | |
| **Type** | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | |
| **Matrix/Level** | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | |
| **Dilution Factor** | **1.0** | | | **1.0** | | | **1.0** | | | **1.0** | | |
| **% Moisture** | **13.88** | | | **19.57** | | | **15.44** | | | **6.19** | | |
| **Units** | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | |
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| 2,4-Dinitrophenol | 380 | U | | 400 | U | | 390 | U | | 350 | U | |
| 4-Nitrophenol | 380 | U | | 400 | U | | 390 | U | | 350 | U | |
| Dibenzofuran | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2,4-Dinitrotoluene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Diethylphthalate | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Fluorene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 4-Chlorophenyl-phenylether | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 4-Nitroaniline | 380 | U | | 400 | U | | 390 | U | | 350 | U | |
| 4,6-Dinitro-2-methylphenol | 380 | U | | 400 | U | | 390 | U | | 350 | U | |
| N-Nitrosodiphenylamine | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 1,2,4,5-Tetrachlorobenzene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 4-Bromophenyl-phenylether | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Hexachlorobenzene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Atrazine | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Pentachlorophenol | 380 | UJ | D | 400 | UJ | D | 390 | UJ | C | 350 | UJ | D |
| Phenanthrene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Anthracene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Carbazole | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Di-n-butylphthalate | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Fluoranthene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Pyrene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Butylbenzylphthalate | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 3,3-Dichlorobenzidine | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Benzo (a) anthracene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Chrysene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Bis (2-Ethylhexyl) phthalate | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Di-n-octylphthalate | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Benzo (b) fluoranthene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Benzo (k) fluoranthene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Benzo (a) pyrene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Indeno (1,2,3-cd) pyrene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Dibenzo (a,h) anthracene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| Benzo (g,h,i) perylene | 190 | U | | 210 | U | | 200 | U | | 180 | U | |
| 2,3,4,6-Tetrachlorophenol | 190 | U | | 210 | U | | 200 | U | | 180 | U | |

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample** | **Y9SW9** | | | **Y9SX0** | | | **Y9SX1** | | | **Y9SX2** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | **N/A** | | | **N/A** | | | **N/A** | | | **N/A** | | |
| **Type** | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | |
| **Matrix/Level** | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | |
| **Dilution Factor** | **1.0** | | | **1.0** | | | **1.0** | | | **1.0** | | |
| **% Moisture** | **11.48** | | | **7.06** | | | **11.18** | | | **22.42** | | |
| **Units** | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | |
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| Benzaldehyde | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Phenol | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Bis (2-Chloroethyl) ether | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2-Chlorophenol | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2-Methylphenol | 190 | U | | 180 | UJ | E | 190 | U | | 220 | U | |
| 2,2-Oxybis (1-Chloropropane) | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Acetophenone | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 4-Methylphenol | 190 | U | | 180 | UJ | E | 190 | U | | 220 | U | |
| N-Nitroso-di-n-propylamine | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Hexachloroethane | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Nitrobenzene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Isophorone | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2-Nitrophenol | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2,4-Dimethylphenol | 190 | U | | 180 | UJ | E | 190 | U | | 220 | U | |
| Bis (2-Chloroethoxy) methane | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2,4-Dichlorophenol | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Naphthalene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 4-Chloroaniline | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Hexachlorobutadiene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Caprolactam | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 4-Chloro-3-methylphenol | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2-Methylnaphthalene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Hexachlorocyclopentadiene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2,4,6-Trichlorophenol | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2,4,5-Trichlorophenol | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 1,1'-Biphenyl | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2-Chloronaphthalene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2-Nitroaniline | 370 | U | | 350 | U | | 370 | U | | 420 | U | |
| Dimethylphthalate | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2,6-Dinitrotoluene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Acenaphthylene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 3-Nitroaniline | 370 | U | | 350 | U | | 370 | U | | 420 | U | |
| Acenaphthene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample** | **Y9SW9** | | | **Y9SX0** | | | **Y9SX1** | | | **Y9SX2** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | **N/A** | | | **N/A** | | | **N/A** | | | **N/A** | | |
| **Type** | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | | **Field_Sample** | | |
| **Matrix/Level** | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | | **Soil/Low** | | |
| **Dilution Factor** | **1.0** | | | **1.0** | | | **1.0** | | | **1.0** | | |
| **% Moisture** | **11.48** | | | **7.06** | | | **11.18** | | | **22.42** | | |
| **Units** | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | | **ug/kg** | | |
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| 2,4-Dinitrophenol | 370 | U | | 350 | U | | 370 | U | | 420 | U | |
| 4-Nitrophenol | 370 | U | | 350 | U | | 370 | U | | 420 | U | |
| Dibenzofuran | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2,4-Dinitrotoluene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Diethylphthalate | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Fluorene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 4-Chlorophenyl-phenylether | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 4-Nitroaniline | 370 | U | | 350 | U | | 370 | U | | 420 | U | |
| 4,6-Dinitro-2-methylphenol | 370 | U | | 350 | U | | 370 | U | | 420 | U | |
| N-Nitrosodiphenylamine | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 1,2,4,5-Tetrachlorobenzene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 4-Bromophenyl-phenylether | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Hexachlorobenzene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Atrazine | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Pentachlorophenol | 370 | UJ | C | 350 | UJ | C | 370 | UJ | D | 420 | UJ | D |
| Phenanthrene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Anthracene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Carbazole | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Di-n-butylphthalate | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Fluoranthene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Pyrene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Butylbenzylphthalate | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 3,3-Dichlorobenzidine | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Benzo (a) anthracene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Chrysene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Bis (2-Ethylhexyl) phthalate | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Di-n-octylphthalate | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Benzo (b) fluoranthene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Benzo (k) fluoranthene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Benzo (a) pyrene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Indeno (1,2,3-cd) pyrene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Dibenzo (a,h) anthracene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| Benzo (g,h,i) perylene | 190 | U | | 180 | U | | 190 | U | | 220 | U | |
| 2,3,4,6-Tetrachlorophenol | 190 | U | | 180 | U | | 190 | U | | 220 | U | |

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample**<br>**Location**<br>**Type**<br>**Matrix/Level**<br>**Dilution Factor**<br>**% Moisture**<br>**Units** | **SBLKSB**<br><br>**Method_Blank**<br>**Soil/Low**<br>**1.0**<br>**0**<br>**ug/kg** | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| Benzaldehyde | 170 | U | | | | | | | | | | |
| Phenol | 170 | U | | | | | | | | | | |
| Bis (2-Chloroethyl) ether | 170 | U | | | | | | | | | | |
| 2-Chlorophenol | 170 | U | | | | | | | | | | |
| 2-Methylphenol | 170 | U | | | | | | | | | | |
| 2,2-Oxybis (1-Chloropropane) | 170 | U | | | | | | | | | | |
| Acetophenone | 85 | J | A | | | | | | | | | |
| 4-Methylphenol | 170 | U | | | | | | | | | | |
| N-Nitroso-di-n-propylamine | 170 | U | | | | | | | | | | |
| Hexachloroethane | 170 | U | | | | | | | | | | |
| Nitrobenzene | 170 | U | | | | | | | | | | |
| Isophorone | 170 | U | | | | | | | | | | |
| 2-Nitrophenol | 170 | U | | | | | | | | | | |
| 2,4-Dimethylphenol | 170 | U | | | | | | | | | | |
| Bis (2-Chloroethoxy) methane | 170 | U | | | | | | | | | | |
| 2,4-Dichlorophenol | 170 | U | | | | | | | | | | |
| Naphthalene | 170 | U | | | | | | | | | | |
| 4-Chloroaniline | 170 | U | | | | | | | | | | |
| Hexachlorobutadiene | 170 | U | | | | | | | | | | |
| Caprolactam | 170 | U | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 170 | U | | | | | | | | | | |
| 2-Methylnaphthalene | 170 | U | | | | | | | | | | |
| Hexachlorocyclopentadiene | 170 | U | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 170 | U | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 170 | U | | | | | | | | | | |
| 1,1'-Biphenyl | 170 | U | | | | | | | | | | |
| 2-Chloronaphthalene | 170 | U | | | | | | | | | | |
| 2-Nitroaniline | 330 | U | | | | | | | | | | |
| Dimethylphthalate | 170 | U | | | | | | | | | | |
| 2,6-Dinitrotoluene | 170 | U | | | | | | | | | | |
| Acenaphthylene | 170 | U | | | | | | | | | | |
| 3-Nitroaniline | 330 | U | | | | | | | | | | |
| Acenaphthene | 170 | U | | | | | | | | | | |

**Lab** CompuChem (LIBRTY) **SDG** Y9SN2 **Case** 45139 **Site** Jervis B. Webb **SOW** SOM01.2

| **Sample<br>Location<br>Type<br>Matrix/Level<br>Dilution Factor<br>% Moisture<br>Units** | **SBLKSB<br><br>Method_Blank<br>Soil/Low<br>1.0<br>0<br>ug/kg** | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Compound** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** | **Result** | **Flag** | **Com** |
| 2,4-Dinitrophenol | 330 | U | | | | | | | | | | |
| 4-Nitrophenol | 330 | U | | | | | | | | | | |
| Dibenzofuran | 170 | U | | | | | | | | | | |
| 2,4-Dinitrotoluene | 170 | U | | | | | | | | | | |
| Diethylphthalate | 170 | U | | | | | | | | | | |
| Fluorene | 170 | U | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 170 | U | | | | | | | | | | |
| 4-Nitroaniline | 330 | U | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 330 | U | | | | | | | | | | |
| N-Nitrosodiphenylamine | 170 | U | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 170 | U | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 170 | U | | | | | | | | | | |
| Hexachlorobenzene | 170 | U | | | | | | | | | | |
| Atrazine | 170 | U | | | | | | | | | | |
| Pentachlorophenol | 330 | U | | | | | | | | | | |
| Phenanthrene | 170 | U | | | | | | | | | | |
| Anthracene | 170 | U | | | | | | | | | | |
| Carbazole | 170 | U | | | | | | | | | | |
| Di-n-butylphthalate | 170 | U | | | | | | | | | | |
| Fluoranthene | 170 | U | | | | | | | | | | |
| Pyrene | 170 | U | | | | | | | | | | |
| Butylbenzylphthalate | 170 | U | | | | | | | | | | |
| 3,3-Dichlorobenzidine | 170 | U | | | | | | | | | | |
| Benzo (a) anthracene | 170 | U | | | | | | | | | | |
| Chrysene | 170 | U | | | | | | | | | | |
| Bis (2-Ethylhexyl) phthalate | 170 | U | | | | | | | | | | |
| Di-n-octylphthalate | 170 | U | | | | | | | | | | |
| Benzo (b) fluoranthene | 170 | U | | | | | | | | | | |
| Benzo (k) fluoranthene | 170 | U | | | | | | | | | | |
| Benzo (a) pyrene | 170 | U | | | | | | | | | | |
| Indeno (1,2,3-cd) pyrene | 170 | U | | | | | | | | | | |
| Dibenzo (a,h) anthracene | 170 | U | | | | | | | | | | |
| Benzo (g,h,i) perylene | 170 | U | | | | | | | | | | |
| 2,3,4,6-Tetrachlorophenol | 170 | U | | | | | | | | | | |

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

## TABLE 1B

## DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SN2

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-01

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1503023-01D70.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/20/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 26.10 | 1800 | J |
| 02 | | Unknown-02 | 26.44 | 2600 | J |
| 03 | | Unknown-03 | 26.74 | 3000 | J |
| 04 | | Unknown-04 | 26.97 | 3800 | J |
| 05 | | Unknown-05 | 27.25 | 4700 | J |
| 06 | | Unknown-06 | 27.44 | 3900 | J |
| 07 | | Unknown-07 | 27.56 | 3500 | J |
| 08 | | Unknown-08 | 27.73 | 3400 | J |
| 09 | | Unknown-09 | 27.85 | 3300 | J |
| 10 | | Unknown-10 | 27.95 | 2200 | J |
| 11 | | Unknown-11 | 28.39 | 1600 | J |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
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| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[a] | Total Alkanes | N/A | | |

[a]EPA-designated Registry Number.

SOM01.2 (8/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SN3

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-02

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1503023-0270.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 11.24 | 390 | J |
| 02 | | Unknown-02 | 13.41 | 770 | J |
| 03 | 301-02-0 | 9-Octadecenamide, (Z)- | 26.65 | 310 | JN |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
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| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
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| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[a] | Total Alkanes | N/A | 180 | J |

[a]EPA-designated Registry Number.

AMENDED DATA

SOM01.2 (8/2007)

4B

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SN4

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-03

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1503023-0370.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 13.42 | 300 | J |
| 02 | 301-02-0 | 9-Octadecenamide, (Z)- | 26.65 | 200 | JN |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
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| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[a] | Total Alkanes | N/A | 330 | J |

[a]EPA-designated Registry Number.

SOM01.2 (8/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SN5

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-04

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 1503023-0470.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 ($C_6H_{12}O_3$) | 12.34 | 400 | J |
| 02 | | Unknown-02 | 16.61 | 130 | J |
| 03 | | Unknown-03 | 16.70 | 210 | J |
| 04 | | Unknown-04 | 17.17 | 1400 | J |
| 05 | | Unknown-05 | 17.22 | 3500 | J |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | SL, 5/16/15. | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
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| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[a] | Total Alkanes | N/A | | |

[a]EPA-designated Registry Number.

SOM01.2 (8/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SN7

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-06

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1503023-0670.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 9.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 13.42 | 280 | J |
| 02 | | ~~Unknown-02~~ | ~~17.49~~ | ~~87~~ | ~~JB~~ |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | SL 5/16/15. | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
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| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[2] | Total Alkanes | N/A | | |

[2]EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP0

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-21

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1503023-2170.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 03/12/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 9.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 13.40 | 360 | J |
| 02 | | Unknown-02 | 14.64 | 120 | J |
| 03 | | Unknown-03 | 26.36 | 100 | J |
| 04 | 301-02-0 | 9-Octadecenamide, (Z)- | 26.65 | 110 | JN |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
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| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[2] | Total Alkanes | N/A | 130 | J |

[2]EPA-designated Registry Number.

SOM01.2 (8/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP5

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-08

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 1503023-0870.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/20/2015

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 10.11 | 840 | J |
| 02 | | Unknown-02 | 10.31 | 1400 | J |
| 03 | | Unknown-03 | 12.96 | 2300 | J |
| 04 | | Unknown-04 | 14.40 | 430 | J |
| 05 | ~~80-07-9~~ Unknown | ~~Benzene, 1,1'-sulfonylbis(4-chloro-~~ | 23.72 | 86 | ~~JN~~ |
| 06 | | Unknown-05 | 26.10 | 92 | J |
| 07 | | Unknown-06 | 26.44 | 140 | J |
| 08 | ~~112-84-5~~ | ~~13-Docosenamide, (Z)-~~ Unknown | 26.49 | 450 | ~~JN~~ |
| 09 | ~~112-84-9~~ | ~~Silane, trichlorooctadecyl~~ | ~~27.05~~ | ~~160~~ | ~~JN~~ |
| 10 | | Unknown-07 | 27.55 | 530 | J |
| 11 | | Unknown-08 | 27.72 | 550 | J |
| 12 | | Unknown-09 | 27.97 | 670 | J |
| 13 | | Unknown-10 | 28.39 | 290 | J |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | SL 5/16/15 | | | |
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| | E966796[2] | Total Alkanes | N/A | | |

[2]EPA-designated Registry Number.

SOM01.2 (B/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP6

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-09

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1503023-0970.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 8 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/20/2015

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 10.06 | 600 | J |
| 02 | | Unknown-02 | 10.30 | 760 | J |
| 03 | | Unknown-03 | 12.94 | 1300 | J |
| 04 | | Unknown-04 | 14.39 | 410 | J |
| 05 | 301-02-0 | 9-Octadecenamide, (Z)- | 26.47 | 280 | JN |
| 06 | | Unknown-05 | 27.72 | 150 | J |
| 07 | | Unknown-06 | 27.97 | 250 | J |
| 08 | | Unknown-07 | 28.37 | 120 | J |
| 09 | | | | | |
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| 30 | | | | | |
| | E966796[a] | Total Alkanes | N/A | 99 | J |

[a]EPA-designated Registry Number.

SOM01.2 (8/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP7

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-10

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 1503023-1070.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 10.98 | 410 | J |
| 02 | | Unknown-02 | 13.41 | 370 | J |
| 03 | | Unknown-03 | 14.65 | 160 | J |
| 04 | ~~112-84-5~~ 301-02-0 | ~~13-Docosenamide~~, (Z)- | 26.65 | 780 | JN |
| 05 | | 9-Octadecenamide | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | SL 5/18/15. | | | |
| 09 | | | | | |
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| | E966796* | Total Alkanes | N/A | 89 | J |

*EPA-designated Registry Number.

SOM01.2 (8/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP8

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-11

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1503023-1170.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 10.94 | 360 | J |
| 02 | | Unknown-02 | 13.39 | 340 | J |
| 03 | 301-02-0 | 9-Octadecenamide, (Z)- | 26.64 | 100 | JN |
| 04 | | | | | |
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| | E966796* | Total Alkanes | N/A | 110 | J |

*EPA-designated Registry Number.

SOM01.2 (8/2007)

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SP9

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-12

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 1503023-1270.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 10.93 | 450 | J |
| 02 | | Unknown-02 | 11.18 | 330 | J |
| 03 | | Unknown-03 | 13.38 | 570 | J |
| 04 | | Unknown-04 | 14.63 | 160 | J |
| 05 | | Unknown-05 | 18.18 | 81 | J |
| 06 | 301-02-0 | ~~Unknown-06~~ 9-Octadecenamide, (Z)- | 26.64 | 130 | J/N |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | SL, 5/16/15. | | | |
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| | E966796[a] | Total Alkanes | N/A | 120 | J |

[a]EPA-designated Registry Number.

SOM01.2 (8/2007)

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SQ1

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-14

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1503023-1470.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/20/2015

GPC Cleanup: (Y/N) Y pH: 8.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 10.08 | 1400 | J |
| 02 | | Unknown-02 | 10.31 | 1100 | J |
| 03 | | Unknown-03 | 12.95 | 2000 | J |
| 04 | | Unknown-04 | 13.45 | 250 | J |
| 05 | | Unknown-05 | 14.40 | 700 | J |
| 06 | | Unknown-06 | 15.62 | 260 | J |
| 07 | | Unknown-07 | 16.37 | 250 | J |
| 08 | | Unknown-08 | 18.05 | 99 | J |
| 09 | | Unknown-09 | 22.11 | 110 | J |
| 10 | | Unknown-10 | 27.41 | 130 | J |
| 11 | | Unknown-11 | 27.72 | 170 | J |
| 12 | | Unknown-12 | 27.97 | 200 | J |
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| | E966796[a] | Total Alkanes | N/A | | |

[a]EPA-designated Registry Number.

SOM01.2 (8/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SQ2

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-15

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 1503023-1570.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 6 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 9.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 17.73 | 190 | J |
| 02 | | | | | |
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| | E966796[2] | Total Alkanes | N/A | | |

[2]EPA-designated Registry Number.

SOM01.2 (8/2007)

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SX0

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-17

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1503023-1770.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 7 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/20/2015

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 10.11 | 770 | J |
| 02 | | Unknown-02 | 10.32 | 600 | J |
| 03 | | Unknown-03 | 12.96 | 1000 | J |
| 04 | | Unknown-04 | 13.46 | 160 | J |
| 05 | | Unknown-05 | 14.40 | 470 | J |
| 06 | 301-02-0 | 9-Octadecenamide, (Z)- | 26.48 | 420 | JN |
| 07 | | Unknown-06 | 27.55 | 170 | J |
| 08 | | Unknown-07 | 27.72 | 120 | J |
| 09 | ~~1000195-40-9~~ | ~~2,4,5,5,8a-Pentamethyl-6,7,8,8a-tet~~ | 28.38 | 90 | JN |
| 10 | | Unknown | | | |
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| 30 | | | | | |
| | E966796[a] | Total Alkanes | N/A | 610 | J |

[a]EPA-designated Registry Number.

SOM01.2 (8/2007)

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SX1

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-18

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1503023-1870.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 8.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 13.37 | 240 | J |
| 02 | | Unknown-02 | 15.89 | 190 | J |
| 03 | 301-02-0 | 9-Octadecenamide, (Z)- | 26.64 | 99 | JN |
| 04 | | | | | |
| 05 | | | | | |
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| 30 | | | | | |
| | E966796[Z] | Total Alkanes | N/A | 120 | J |

[Z]EPA-designated Registry Number.

SOM01.2 (8/2007)

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9SX2

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 45139 Mod. Ref No.: SDG No.: Y9SN2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 1503023-19

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 1503023-1970.d

Level: (LOW/MED) LOW Extraction: (Type): SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 03/10/2015

Concentrated Extract Volume: 500 (uL) Date Extracted: 03/12/2015

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Date Analyzed: 03/17/2015

GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 13.39 | 190 | J |
| 02 | | | | | |
| 03 | | | | | |
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| 30 | | | | | |
| | E966796* | Total Alkanes | N/A | | |

*EPA-designated Registry Number.

SOM01.2 (8/2007)

766