BUREAU OF WATER

South Carolina Department of Health and Environmental Control

Okatee River Environmental Condition Assessment 2019 Volume 2 - Raw Data

Technical Report No. 012-2020

S.C. Department of Health and Environmental Control

Okatee River Environmental Condition Assessment

Volume 2 – Raw Data

Technical Report No. 012-2020

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SCDHEC – Bureau of Water, Aquatic Science Programs

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Note: This Technical Report is a companion document to the South Carolina Department of Health and Environmental Control 2020 Technical Report 011-2020 *Okatee River Environmental Condition Assessment 2019*.

This report contains the raw analytical results evaluated and assessed in Technical Report 011-2020.

Section A.

SCDHEC Water Analytical Results

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS4
Matrix: WATER
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39764**
Program Charge: WPC
Collected By: BORES E
Date of Collection: 11/05/2019
Time of Collection: 09:06

Depth: 0.3
Field pH: 6.87
Field DO: 4.35
Temp. Water: 18.42
Salinity (ppt): 28.81
Conductivity (umhos/cm): 44503

Laboratory Sample Number: **AE39764**

	Analyte	Result	Units	Method Reference
Aluminum in Water	Aluminum in Water	2.4	mg/L	EPA 200.7
Antimony in Water	Antimony in Water	<0.050	mg/L	EPA 200.7
Arsenic in Water	Arsenic in Water	<0.10	mg/L	EPA 200.7
Barium in Water	Barium in Water	<0.050	mg/L	EPA 200.7
Base-Neutral/Acid Extract in Water	2,4,6-trichlorophenol	<0.0040	mg/L	EPA 625
	2,4-dichlorophenol	<0.0040	mg/L	EPA 625
	1,2,4-trichlorobenzene	<0.0040	mg/L	EPA 625
	Naphthalene	<0.0040	mg/L	EPA 625
	4-chloroaniline	<0.0040	mg/L	EPA 625
	Hexachlorobutadiene	<0.0040	mg/L	EPA 625
	4-chloro-3 methyl phenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroethoxy)methane	<0.0040	mg/L	EPA 625
	Hexachlorocyclopentadiene	<0.0040	mg/L	EPA 625
	2-nitrophenol	<0.0040	mg/L	EPA 625
	2,4,5-trichlorophenol	<0.0040	mg/L	EPA 625
	2-chloronaphthalene	<0.0040	mg/L	EPA 625
	2-nitroaniline	<0.0040	mg/L	EPA 625
	Dimethyl phthalate	<0.0040	mg/L	EPA 625
	2-methyl naphthalene	<0.0040	mg/L	EPA 625
	Acenaphthylene	<0.0040	mg/L	EPA 625
	2,4-dimethyl phenol	<0.0040	mg/L	EPA 625
	Isophorone	<0.0040	mg/L	EPA 625
	Nitrobenzene	<0.0040	mg/L	EPA 625
	N-nitrosodi-n-propylamine	<0.0040	mg/L	EPA 625
	4-methylphenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroisopropyl)ether	<0.0040	mg/L	EPA 625
	2-methylphenol	<0.0040	mg/L	EPA 625
	Benzyl alcohol	<0.0040	mg/L	EPA 625
	2-chlorophenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroethyl)ether	<0.0040	mg/L	EPA 625
	Phenol	<0.0040	mg/L	EPA 625
	Aniline	<0.0040	mg/L	EPA 625
	N-nitrosodimethylamine	<0.0040	mg/L	EPA 625
	Benzoic acid	<0.0040	mg/L	EPA 625

Base-Neutral/Acid Extract in Water	Benzo(k)fluoranthene	<0.0040	mg/L	EPA 625
	2,4-Dinitrophenol	<0.0040	mg/L	EPA 625
	Fluoranthene	<0.0040	mg/L	EPA 625
	Pyrene	<0.0040	mg/L	EPA 625
	Butylbenzyl phthalate	<0.0040	mg/L	EPA 625
	3,3'-dichlorobenzidine	<0.0040	mg/L	EPA 625
	Benzo(a)anthracene	<0.0040	mg/L	EPA 625
	Di-n-butylphthalate	<0.0040	mg/L	EPA 625
	Benzo(b)fluoranthene	<0.0040	mg/L	EPA 625
	Chrysene	<0.0040	mg/L	EPA 625
	Benzo(a)pyrene	<0.0040	mg/L	EPA 625
	Indeno(1,2,3-cd)pyrene	<0.0040	mg/L	EPA 625
	Benzo(ghi)perylene	<0.0040	mg/L	EPA 625
	Dibenzo(a,h)anthracene	<0.0040	mg/L	EPA 625
	2,6-dinitrotoluene	<0.0040	mg/L	EPA 625
	Hexachloroethane	<0.0040	mg/L	EPA 625
	Bis(2-ethylhexyl)phthalate	<0.0040	mg/L	EPA 625
	3-nitroaniline	<0.0040	mg/L	EPA 625
	4-nitrophenol	<0.0040	mg/L	EPA 625
	Dibenzofuran	<0.0040	mg/L	EPA 625
	2,4-dinitrotoluene	<0.0040	mg/L	EPA 625
	Diethyl phthalate	<0.0040	mg/L	EPA 625
	4-chlorophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Fluorene	<0.0040	mg/L	EPA 625
	Anthracene	<0.0040	mg/L	EPA 625
	4-nitroaniline	<0.0040	mg/L	EPA 625
	Acenaphthene	<0.0040	mg/L	EPA 625
	Azobenzene	<0.0040	mg/L	EPA 625
	2-methyl-4,6-dinitrophenol	<0.0040	mg/L	EPA 625
	N-nitrosodiphenylamine	<0.0040	mg/L	EPA 625
	4-bromophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Hexachlorobenzene	<0.0040	mg/L	EPA 625
	Pentachlorophenol	<0.0040	mg/L	EPA 625
	Phenanthrene	<0.0040	mg/L	EPA 625
	Di-n-octylphthalate	<0.0040	mg/L	EPA 625
Beryllium in Water	Beryllium in Water	<0.0010	mg/L	EPA 200.7
Boron in Water	Boron in Water	3.4	mg/L	EPA 200.7
Cadmium in Water	Cadmium in Water	<0.00010	mg/L	EPA 200.8
Calcium in Water	Calcium in Water	310	mg/L	EPA 200.7
Chromium in Water	Chromium in Water	<0.0050	mg/L	EPA 200.7
Cobalt in Water	Cobalt in Water	<0.020	mg/L	EPA 200.7
Copper in Water	Copper in Water	<0.010	mg/L	EPA 200.7
Hardness	Hardness	4900	mg/L	EPA 200.7
Iron in Water	Iron in Water	1.8	mg/L	EPA 200.7
Lead in Water	Lead in Water	<0.0020	mg/L	EPA 200.8
Magnesium in Water	Magnesium in Water	1000	mg/L	EPA 200.7
Manganese in Water	Manganese in Water	0.12	mg/L	EPA 200.7
Mercury in Water	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
Molybdenum in Water	Molybdenum in Water	<0.020	mg/L	EPA 200.7
Nickel in Water	Nickel in Water	<0.020	mg/L	EPA 200.7
Pesticide/PCBs in Water	PCB 1232	<0.00050	mg/L	EPA 608
	alpha-BHC	<0.000050	mg/L	EPA 608
	Aldrin	<0.000050	mg/L	EPA 608
	Endosulfan II	<0.000050	mg/L	EPA 608
	Endrin aldehyde	<0.000050	mg/L	EPA 608
	PCB 1260	<0.00050	mg/L	EPA 608
	PCB 1254	<0.00050	mg/L	EPA 608
	PCB 1248	<0.00050	mg/L	EPA 608
	PCB 1242	<0.00050	mg/L	EPA 608
	PCB 1221	<0.0010	mg/L	EPA 608
	Toxaphene	<0.0025	mg/L	EPA 608
	Heptachlor	<0.000050	mg/L	EPA 608
	PCB 1016	<0.00050	mg/L	EPA 608
	Endosulfan Sulfate	<0.000050	mg/L	EPA 608
	beta-BHC	<0.000050	mg/L	EPA 608
	Endosulfan I	<0.000050	mg/L	EPA 608
	Dieldrin	<0.000050	mg/L	EPA 608
	p,p'-DDT	<0.000050	mg/L	EPA 608
	p,p'-DDE	<0.000050	mg/L	EPA 608
	p,p'-DDD	<0.000050	mg/L	EPA 608
	Chlordane	<0.00050	mg/L	EPA 608

Pesticide/PCBs in Water	Lindane	<0.000050	mg/L	EPA 608
	delta-BHC	<0.000050	mg/L	EPA 608
	Endrin	<0.000050	mg/L	EPA 608
	Heptachlor epoxide	<0.000050	mg/L	EPA 608
Potassium in Water	Potassium in Water	280	mg/L	EPA 200.7
Selenium in Water	Selenium in Water	<0.10	mg/L	EPA 200.7
Silver in Water	Silver in Water	<0.030	mg/L	EPA 200.7
Sodium in Water	Sodium in Water	7900	mg/L	EPA 200.7
Strontium in Water	Strontium in Water	6.0	mg/L	EPA 200.7
Thallium in Water	Thallium in Water	0.048	mg/L	EPA 200.7
Tin in Water	Tin in Water	<0.020	mg/L	EPA 200.7
Titanium in Water	Titanium in Water	0.050	mg/L	EPA 200.7
Vanadium in Water	Vanadium in Water	<0.020	mg/L	EPA 200.7
Volatile Organics in Water	1,2-Dichloropropane	<0.00200	mg/L	EPA 624
	2-Chloroethyl Vinyl Ether	<0.00200	mg/L	EPA 624
	Cis-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	1,2-Dichloroethane	<0.00200	mg/L	EPA 624
	Trans-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	Trichloroethene	<0.00200	mg/L	EPA 624
	1,1,2-Trichloroethane	<0.00200	mg/L	EPA 624
	Tetrachloroethene	<0.00200	mg/L	EPA 624
	Dibromochloromethane	<0.00200	mg/L	EPA 624
	Chlorobenzene	<0.00200	mg/L	EPA 624
	Ethyl benzene	<0.00200	mg/L	EPA 624
	Bromoform	<0.00200	mg/L	EPA 624
	1,1,2,2-tetrachloroethane	<0.00200	mg/L	EPA 624
	1,3-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,4-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,2-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,1-Dichloroethane	<0.00200	mg/L	EPA 624
	Toluene	<0.00200	mg/L	EPA 624
	Vinyl chloride	<0.00200	mg/L	EPA 624
	Trans-1,2-Dichloroethene	<0.00200	mg/L	EPA 624
	Methylene Chloride	<0.00200	mg/L	EPA 624
	1,1-Dichloroethene	<0.00200	mg/L	EPA 624
	Trichlorofluoromethane	<0.00200	mg/L	EPA 624
	Bromodichloromethane	<0.00200	mg/L	EPA 624
	Bromomethane	<0.00200	mg/L	EPA 624
	Chloromethane	<0.00200	mg/L	EPA 624
	Chloroform	<0.00200	mg/L	EPA 624
	Carbon Tetrachloride	<0.00200	mg/L	EPA 624
	Chloroethane	<0.00200	mg/L	EPA 624
	Benzene	<0.00200	mg/L	EPA 624
	1,1,1-trichloroethane	<0.00200	mg/L	EPA 624
Zinc in Water	Zinc in Water	<0.010	mg/L	EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB2
Matrix: WATER

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39765**
Program Charge: WPC
Collected By: BORES E
Date of Collection: 11/05/2019
Time of Collection: 10:11

Depth: 0.43
Field pH: 7.11
Field DO: 4.67
Temp. Water: 19.17
Salinity (ppt): 30.51
Conductivity (umhos/cm): 46833

Laboratory Sample Number: **AE39765**

	Analyte	Result	Units	Method Reference
Aluminum in Water	Aluminum in Water	1.4	mg/L	EPA 200.7
Antimony in Water	Antimony in Water	<0.050	mg/L	EPA 200.7
Arsenic in Water	Arsenic in Water	<0.10	mg/L	EPA 200.7
Barium in Water	Barium in Water	<0.050	mg/L	EPA 200.7
Base-Neutral/Acid Extract in Water	4-methylphenol	<0.0040	mg/L	EPA 625
	N-nitrosodi-n-propylamine	<0.0040	mg/L	EPA 625
	2-methylphenol	<0.0040	mg/L	EPA 625
	Benzyl alcohol	<0.0040	mg/L	EPA 625
	N-nitrosodimethylamine	<0.0040	mg/L	EPA 625
	Bis(2-chloroethyl)ether	<0.0040	mg/L	EPA 625
	Hexachloroethane	<0.0040	mg/L	EPA 625
	Aniline	<0.0040	mg/L	EPA 625
	2,4-Dinitrophenol	<0.0040	mg/L	EPA 625
	Indeno(1,2,3-cd)pyrene	<0.0040	mg/L	EPA 625
	Benzo(ghi)perylene	<0.0040	mg/L	EPA 625
	Benzo(a)pyrene	<0.0040	mg/L	EPA 625
	Dibenzo(a,h)anthracene	<0.0040	mg/L	EPA 625
	Phenol	<0.0040	mg/L	EPA 625
	Anthracene	<0.0040	mg/L	EPA 625
	Diethyl phthalate	<0.0040	mg/L	EPA 625
	4-chlorophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Fluorene	<0.0040	mg/L	EPA 625
	4-nitroaniline	<0.0040	mg/L	EPA 625
	Nitrobenzene	<0.0040	mg/L	EPA 625
	2-methyl-4,6-dinitrophenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroisopropyl)ether	<0.0040	mg/L	EPA 625
	N-nitrosodiphenylamine	<0.0040	mg/L	EPA 625
	4-bromophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Hexachlorobenzene	<0.0040	mg/L	EPA 625
	2,4-dinitrotoluene	<0.0040	mg/L	EPA 625
	Phenanthrene	<0.0040	mg/L	EPA 625
	Azobenzene	<0.0040	mg/L	EPA 625
	Di-n-butylphthalate	<0.0040	mg/L	EPA 625
	Fluoranthene	<0.0040	mg/L	EPA 625
	Pyrene	<0.0040	mg/L	EPA 625

Base-Neutral/Acid Extract in Water	Butylbenzyl phthalate	<0.0040	mg/L	EPA 625
	3,3'-dichlorobenzidine	<0.0040	mg/L	EPA 625
	Benzo(a)anthracene	<0.0040	mg/L	EPA 625
	Chrysene	<0.0040	mg/L	EPA 625
	Bis(2-ethylhexyl)phthalate	<0.0040	mg/L	EPA 625
	Di-n-octylphthalate	<0.0040	mg/L	EPA 625
	Benzo(b)fluoranthene	<0.0040	mg/L	EPA 625
	Benzo(k)fluoranthene	<0.0040	mg/L	EPA 625
	Pentachlorophenol	<0.0040	mg/L	EPA 625
	Isophorone	<0.0040	mg/L	EPA 625
	Bis(2-chloroethoxy)methane	<0.0040	mg/L	EPA 625
	2,4-dichlorophenol	<0.0040	mg/L	EPA 625
	1,2,4-trichlorobenzene	<0.0040	mg/L	EPA 625
	Naphthalene	<0.0040	mg/L	EPA 625
	2,4-dimethyl phenol	<0.0040	mg/L	EPA 625
	Benzoic acid	<0.0040	mg/L	EPA 625
	2-nitrophenol	<0.0040	mg/L	EPA 625
	4-chloroaniline	<0.0040	mg/L	EPA 625
	Hexachlorobutadiene	<0.0040	mg/L	EPA 625
	4-chloro-3 methyl phenol	<0.0040	mg/L	EPA 625
	2-methyl naphthalene	<0.0040	mg/L	EPA 625
	Acenaphthylene	<0.0040	mg/L	EPA 625
	Dibenzofuran	<0.0040	mg/L	EPA 625
	2,6-dinitrotoluene	<0.0040	mg/L	EPA 625
	Hexachlorocyclopentadiene	<0.0040	mg/L	EPA 625
	Acenaphthene	<0.0040	mg/L	EPA 625
	Dimethyl phthalate	<0.0040	mg/L	EPA 625
	2-nitroaniline	<0.0040	mg/L	EPA 625
	4-nitrophenol	<0.0040	mg/L	EPA 625
	2-chloronaphthalene	<0.0040	mg/L	EPA 625
	2-chlorophenol	<0.0040	mg/L	EPA 625
	2,4,5-trichlorophenol	<0.0040	mg/L	EPA 625
	2,4,6-trichlorophenol	<0.0040	mg/L	EPA 625
	3-nitroaniline	<0.0040	mg/L	EPA 625
Beryllium in Water	Beryllium in Water	<0.0010	mg/L	EPA 200.7
Boron in Water	Boron in Water	3.7	mg/L	EPA 200.7
Cadmium in Water	Cadmium in Water	<0.00010	mg/L	EPA 200.8
Calcium in Water	Calcium in Water	340	mg/L	EPA 200.7
Chromium in Water	Chromium in Water	<0.0050	mg/L	EPA 200.7
Cobalt in Water	Cobalt in Water	<0.020	mg/L	EPA 200.7
Copper in Water	Copper in Water	<0.010	mg/L	EPA 200.7
Hardness	Hardness	5400	mg/L	EPA 200.7
Iron in Water	Iron in Water	0.78	mg/L	EPA 200.7
Lead in Water	Lead in Water	<0.0020	mg/L	EPA 200.8
Magnesium in Water	Magnesium in Water	1100	mg/L	EPA 200.7
Manganese in Water	Manganese in Water	0.074	mg/L	EPA 200.7
Mercury in Water	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
Molybdenum in Water	Molybdenum in Water	<0.020	mg/L	EPA 200.7
Nickel in Water	Nickel in Water	<0.020	mg/L	EPA 200.7
Pesticide/PCBs in Water	Heptachlor	<0.000050	mg/L	EPA 608
	Endosulfan I	<0.000050	mg/L	EPA 608
	PCB 1260	<0.00050	mg/L	EPA 608
	PCB 1254	<0.00050	mg/L	EPA 608
	PCB 1248	<0.00050	mg/L	EPA 608
	PCB 1242	<0.00050	mg/L	EPA 608
	PCB 1232	<0.00050	mg/L	EPA 608
	PCB 1221	<0.0010	mg/L	EPA 608
	PCB 1016	<0.00050	mg/L	EPA 608
	Toxaphene	<0.0025	mg/L	EPA 608
	Heptachlor epoxide	<0.000050	mg/L	EPA 608
	Endrin aldehyde	<0.000050	mg/L	EPA 608
	Endrin	<0.000050	mg/L	EPA 608
	Endosulfan II	<0.000050	mg/L	EPA 608
	Lindane	<0.000050	mg/L	EPA 608
	Aldrin	<0.000050	mg/L	EPA 608
	alpha-BHC	<0.000050	mg/L	EPA 608
	Endosulfan Sulfate	<0.000050	mg/L	EPA 608
	delta-BHC	<0.000050	mg/L	EPA 608
	Dieldrin	<0.000050	mg/L	EPA 608
	Chlordane	<0.00050	mg/L	EPA 608
	p,p'-DDD	<0.000050	mg/L	EPA 608

Pesticide/PCBs in Water	p,p'-DDE	<0.000050	mg/L	EPA 608
	p,p'-DDT	<0.000050	mg/L	EPA 608
	beta-BHC	<0.000050	mg/L	EPA 608
Potassium in Water	Potassium in Water	300	mg/L	EPA 200.7
Selenium in Water	Selenium in Water	<0.10	mg/L	EPA 200.7
Silver in Water	Silver in Water	<0.030	mg/L	EPA 200.7
Sodium in Water	Sodium in Water	8500	mg/L	EPA 200.7
Strontium in Water	Strontium in Water	6.3	mg/L	EPA 200.7
Thallium in Water	Thallium in Water	0.14	mg/L	EPA 200.7
Tin in Water	Tin in Water	<0.020	mg/L	EPA 200.7
Titanium in Water	Titanium in Water	0.036	mg/L	EPA 200.7
Vanadium in Water	Vanadium in Water	<0.020	mg/L	EPA 200.7
Volatile Organics in Water	Chlorobenzene	<0.00200	mg/L	EPA 624
	2-Chloroethyl Vinyl Ether	<0.00200	mg/L	EPA 624
	Cis-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	Toluene	<0.00200	mg/L	EPA 624
	Trans-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	1,1,2-Trichloroethane	<0.00200	mg/L	EPA 624
	Dibromochloromethane	<0.00200	mg/L	EPA 624
	Trichloroethene	<0.00200	mg/L	EPA 624
	Ethyl benzene	<0.00200	mg/L	EPA 624
	Bromoform	<0.00200	mg/L	EPA 624
	1,1,2,2-tetrachloroethane	<0.00200	mg/L	EPA 624
	1,3-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,4-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,2-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Tetrachloroethene	<0.00200	mg/L	EPA 624
	Methylene Chloride	<0.00200	mg/L	EPA 624
	Chloromethane	<0.00200	mg/L	EPA 624
	Vinyl chloride	<0.00200	mg/L	EPA 624
	Bromomethane	<0.00200	mg/L	EPA 624
	Chloroethane	<0.00200	mg/L	EPA 624
	Bromodichloromethane	<0.00200	mg/L	EPA 624
	1,1-Dichloroethene	<0.00200	mg/L	EPA 624
	1,2-Dichloropropane	<0.00200	mg/L	EPA 624
	Trans-1,2-Dichloroethene	<0.00200	mg/L	EPA 624
	1,1-Dichloroethane	<0.00200	mg/L	EPA 624
	Chloroform	<0.00200	mg/L	EPA 624
	1,1,1-trichloroethane	<0.00200	mg/L	EPA 624
	Carbon Tetrachloride	<0.00200	mg/L	EPA 624
	Benzene	<0.00200	mg/L	EPA 624
	1,2-Dichloroethane	<0.00200	mg/L	EPA 624
	Trichlorofluoromethane	<0.00200	mg/L	EPA 624
Zinc in Water	Zinc in Water	<0.010	mg/L	EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB14
Matrix: WATER

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39766**
Program Charge: WPC
Collected By: BORES E
Date of Collection: 11/05/2019
Time of Collection: 11:03

Depth: 0.32
Field pH: 7.17
Field DO: 5.11
Temp. Water: 19.62
Salinity (ppt): 31.21
Conductivity (umhos/cm): 47810

Laboratory Sample Number: **AE39766**

	Analyte	Result	Units	Method Reference
Aluminum in Water	Aluminum in Water	1.4	mg/L	EPA 200.7
Antimony in Water	Antimony in Water	<0.050	mg/L	EPA 200.7
Arsenic in Water	Arsenic in Water	<0.10	mg/L	EPA 200.7
Barium in Water	Barium in Water	<0.050	mg/L	EPA 200.7
Base-Neutral/Acid Extract in Water	2,4-dichlorophenol	<0.0040	mg/L	EPA 625
	1,2,4-trichlorobenzene	<0.0040	mg/L	EPA 625
	Naphthalene	<0.0040	mg/L	EPA 625
	4-chloroaniline	<0.0040	mg/L	EPA 625
	Hexachlorobutadiene	<0.0040	mg/L	EPA 625
	4-chloro-3 methyl phenol	<0.0040	mg/L	EPA 625
	N-nitrosodimethylamine	<0.0040	mg/L	EPA 625
	Hexachlorocyclopentadiene	<0.0040	mg/L	EPA 625
	2,4-dimethyl phenol	<0.0040	mg/L	EPA 625
	2,4,6-trichlorophenol	<0.0040	mg/L	EPA 625
	2,4,5-trichlorophenol	<0.0040	mg/L	EPA 625
	2-chloronaphthalene	<0.0040	mg/L	EPA 625
	2-nitroaniline	<0.0040	mg/L	EPA 625
	Dimethyl phthalate	<0.0040	mg/L	EPA 625
	2-methyl naphthalene	<0.0040	mg/L	EPA 625
	4-methylphenol	<0.0040	mg/L	EPA 625
	Aniline	<0.0040	mg/L	EPA 625
	Phenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroethyl)ether	<0.0040	mg/L	EPA 625
	2-chlorophenol	<0.0040	mg/L	EPA 625
	Benzyl alcohol	<0.0040	mg/L	EPA 625
	Bis(2-chloroethoxy)methane	<0.0040	mg/L	EPA 625
	Bis(2-chloroisopropyl)ether	<0.0040	mg/L	EPA 625
	Benzoic acid	<0.0040	mg/L	EPA 625
	N-nitrosodi-n-propylamine	<0.0040	mg/L	EPA 625
	Hexachloroethane	<0.0040	mg/L	EPA 625
	Nitrobenzene	<0.0040	mg/L	EPA 625
	Isophorone	<0.0040	mg/L	EPA 625
	2-nitrophenol	<0.0040	mg/L	EPA 625
	3-nitroaniline	<0.0040	mg/L	EPA 625
	2-methylphenol	<0.0040	mg/L	EPA 625

Base-Neutral/Acid Extract in Water	Hexachlorobenzene	<0.0040	mg/L	EPA 625
	Dibenzo(a,h)anthracene	<0.0040	mg/L	EPA 625
	Indeno(1,2,3-cd)pyrene	<0.0040	mg/L	EPA 625
	Benzo(a)pyrene	<0.0040	mg/L	EPA 625
	Benzo(k)fluoranthene	<0.0040	mg/L	EPA 625
	Di-n-octylphthalate	<0.0040	mg/L	EPA 625
	Chrysene	<0.0040	mg/L	EPA 625
	Benzo(a)anthracene	<0.0040	mg/L	EPA 625
	3,3'-dichlorobenzidine	<0.0040	mg/L	EPA 625
	Butylbenzyl phthalate	<0.0040	mg/L	EPA 625
	Pyrene	<0.0040	mg/L	EPA 625
	Fluoranthene	<0.0040	mg/L	EPA 625
	Di-n-butylphthalate	<0.0040	mg/L	EPA 625
	Anthracene	<0.0040	mg/L	EPA 625
	Acenaphthylene	<0.0040	mg/L	EPA 625
	Fluorene	<0.0040	mg/L	EPA 625
	Bis(2-ethylhexyl)phthalate	<0.0040	mg/L	EPA 625
	Acenaphthene	<0.0040	mg/L	EPA 625
	4-nitrophenol	<0.0040	mg/L	EPA 625
	Dibenzofuran	<0.0040	mg/L	EPA 625
	2,4-dinitrotoluene	<0.0040	mg/L	EPA 625
	Phenanthrene	<0.0040	mg/L	EPA 625
	4-chlorophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Pentachlorophenol	<0.0040	mg/L	EPA 625
	4-nitroaniline	<0.0040	mg/L	EPA 625
	Azobenzene	<0.0040	mg/L	EPA 625
	2-methyl-4,6-dinitrophenol	<0.0040	mg/L	EPA 625
	N-nitrosodiphenylamine	<0.0040	mg/L	EPA 625
	4-bromophenyl phenyl ether	<0.0040	mg/L	EPA 625
	2,6-dinitrotoluene	<0.0040	mg/L	EPA 625
	Diethyl phthalate	<0.0040	mg/L	EPA 625
	Benzo(b)fluoranthene	<0.0040	mg/L	EPA 625
	Benzo(ghi)perylene	<0.0040	mg/L	EPA 625
	2,4-Dinitrophenol	<0.0040	mg/L	EPA 625
Beryllium in Water	Beryllium in Water	<0.0010	mg/L	EPA 200.7
Boron in Water	Boron in Water	3.7	mg/L	EPA 200.7
Cadmium in Water	Cadmium in Water	<0.00010	mg/L	EPA 200.8
Calcium in Water	Calcium in Water	340	mg/L	EPA 200.7
Chromium in Water	Chromium in Water	<0.0050	mg/L	EPA 200.7
Cobalt in Water	Cobalt in Water	<0.020	mg/L	EPA 200.7
Copper in Water	Copper in Water	<0.010	mg/L	EPA 200.7
Hardness	Hardness	5400	mg/L	EPA 200.7
Iron in Water	Iron in Water	0.59	mg/L	EPA 200.7
Lead in Water	Lead in Water	<0.0020	mg/L	EPA 200.8
Magnesium in Water	Magnesium in Water	1100	mg/L	EPA 200.7
Manganese in Water	Manganese in Water	0.061	mg/L	EPA 200.7
Mercury in Water	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
Molybdenum in Water	Molybdenum in Water	<0.020	mg/L	EPA 200.7
Nickel in Water	Nickel in Water	<0.020	mg/L	EPA 200.7
Pesticide/PCBs in Water	Lindane	<0.000050	mg/L	EPA 608
	Endrin aldehyde	<0.000050	mg/L	EPA 608
	Aldrin	<0.000050	mg/L	EPA 608
	alpha-BHC	<0.000050	mg/L	EPA 608
	Endrin	<0.000050	mg/L	EPA 608
	Heptachlor	<0.000050	mg/L	EPA 608
	Heptachlor epoxide	<0.000050	mg/L	EPA 608
	Toxaphene	<0.0025	mg/L	EPA 608
	PCB 1016	<0.00050	mg/L	EPA 608
	PCB 1221	<0.0010	mg/L	EPA 608
	PCB 1232	<0.00050	mg/L	EPA 608
	PCB 1242	<0.00050	mg/L	EPA 608
	PCB 1248	<0.00050	mg/L	EPA 608
	beta-BHC	<0.000050	mg/L	EPA 608
	PCB 1260	<0.00050	mg/L	EPA 608
	delta-BHC	<0.000050	mg/L	EPA 608
	Endosulfan Sulfate	<0.000050	mg/L	EPA 608
	Endosulfan II	<0.000050	mg/L	EPA 608
	Endosulfan I	<0.000050	mg/L	EPA 608
	Dieldrin	<0.000050	mg/L	EPA 608
	p,p'-DDT	<0.000050	mg/L	EPA 608
	p,p'-DDE	<0.000050	mg/L	EPA 608

Pesticide/PCBs in Water	p,p'-DDD	<0.000050	mg/L	EPA 608
	Chlordane	<0.00050	mg/L	EPA 608
	PCB 1254	<0.00050	mg/L	EPA 608
Potassium in Water	Potassium in Water	310	mg/L	EPA 200.7
Selenium in Water	Selenium in Water	<0.10	mg/L	EPA 200.7
Silver in Water	Silver in Water	<0.030	mg/L	EPA 200.7
Sodium in Water	Sodium in Water	8400	mg/L	EPA 200.7
Strontium in Water	Strontium in Water	6.4	mg/L	EPA 200.7
Thallium in Water	Thallium in Water	0.049	mg/L	EPA 200.7
Tin in Water	Tin in Water	<0.020	mg/L	EPA 200.7
Titanium in Water	Titanium in Water	0.030	mg/L	EPA 200.7
Vanadium in Water	Vanadium in Water	<0.020	mg/L	EPA 200.7
Volatile Organics in Water	1,2-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Chlorobenzene	<0.00200	mg/L	EPA 624
	Trichlorofluoromethane	<0.00200	mg/L	EPA 624
	Chloroethane	<0.00200	mg/L	EPA 624
	Bromomethane	<0.00200	mg/L	EPA 624
	1,1-Dichloroethene	<0.00200	mg/L	EPA 624
	Tetrachloroethene	<0.00200	mg/L	EPA 624
	Dibromochloromethane	<0.00200	mg/L	EPA 624
	Ethyl benzene	<0.00200	mg/L	EPA 624
	Bromoform	<0.00200	mg/L	EPA 624
	1,1,2,2-tetrachloroethane	<0.00200	mg/L	EPA 624
	1,4-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Methylene Chloride	<0.00200	mg/L	EPA 624
	Vinyl chloride	<0.00200	mg/L	EPA 624
	Chloromethane	<0.00200	mg/L	EPA 624
	1,3-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,2-Dichloroethane	<0.00200	mg/L	EPA 624
	Trans-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	Toluene	<0.00200	mg/L	EPA 624
	Cis-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	2-Chloroethyl Vinyl Ether	<0.00200	mg/L	EPA 624
	Bromodichloromethane	<0.00200	mg/L	EPA 624
	Trichloroethene	<0.00200	mg/L	EPA 624
	Benzene	<0.00200	mg/L	EPA 624
	Carbon Tetrachloride	<0.00200	mg/L	EPA 624
	1,1,1-trichloroethane	<0.00200	mg/L	EPA 624
	Chloroform	<0.00200	mg/L	EPA 624
	1,1-Dichloroethane	<0.00200	mg/L	EPA 624
	Trans-1,2-Dichloroethene	<0.00200	mg/L	EPA 624
	1,1,2-Trichloroethane	<0.00200	mg/L	EPA 624
	1,2-Dichloropropane	<0.00200	mg/L	EPA 624
Zinc in Water	Zinc in Water	<0.010	mg/L	EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS1
Matrix: WATER

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39767**
Program Charge: WPC
Collected By: BORES E
Date of Collection: 11/05/2019
Time of Collection: 11:42

Depth: 0.29
Field pH: 7.26
Field DO: 5.64
Temp. Water: 19.39
Salinity (ppt): 31.07
Conductivity (umhos/cm): 47622

Laboratory Sample Number: **AE39767**

	Analyte	Result	Units	Method Reference
Aluminum in Water	Aluminum in Water	2.2	mg/L	EPA 200.7
Antimony in Water	Antimony in Water	<0.050	mg/L	EPA 200.7
Arsenic in Water	Arsenic in Water	<0.10	mg/L	EPA 200.7
Barium in Water	Barium in Water	<0.050	mg/L	EPA 200.7
Base-Neutral/Acid Extract in Water	N-nitrosodimethylamine	<0.0040	mg/L	EPA 625
	2-methylphenol	<0.0040	mg/L	EPA 625
	Benzyl alcohol	<0.0040	mg/L	EPA 625
	2-chlorophenol	<0.0040	mg/L	EPA 625
	Diethyl phthalate	<0.0040	mg/L	EPA 625
	2,4-dinitrotoluene	<0.0040	mg/L	EPA 625
	Dibenzofuran	<0.0040	mg/L	EPA 625
	Bis(2-chloroethyl)ether	<0.0040	mg/L	EPA 625
	4-nitrophenol	<0.0040	mg/L	EPA 625
	Aniline	<0.0040	mg/L	EPA 625
	Dimethyl phthalate	<0.0040	mg/L	EPA 625
	Acenaphthylene	<0.0040	mg/L	EPA 625
	Bis(2-chloroethoxy)methane	<0.0040	mg/L	EPA 625
	2,6-dinitrotoluene	<0.0040	mg/L	EPA 625
	3-nitroaniline	<0.0040	mg/L	EPA 625
	Acenaphthene	<0.0040	mg/L	EPA 625
	Bis(2-chloroisopropyl)ether	<0.0040	mg/L	EPA 625
	Phenol	<0.0040	mg/L	EPA 625
	2,4-dichlorophenol	<0.0040	mg/L	EPA 625
	2-chloronaphthalene	<0.0040	mg/L	EPA 625
	2,4,5-trichlorophenol	<0.0040	mg/L	EPA 625
	2,4,6-trichlorophenol	<0.0040	mg/L	EPA 625
	Hexachlorocyclopentadiene	<0.0040	mg/L	EPA 625
	2-methyl naphthalene	<0.0040	mg/L	EPA 625
	4-chloro-3 methyl phenol	<0.0040	mg/L	EPA 625
	Hexachlorobutadiene	<0.0040	mg/L	EPA 625
	4-chloroaniline	<0.0040	mg/L	EPA 625
	2,4-dimethyl phenol	<0.0040	mg/L	EPA 625
	1,2,4-trichlorobenzene	<0.0040	mg/L	EPA 625
	4-methylphenol	<0.0040	mg/L	EPA 625
	Di-n-butylphthalate	<0.0040	mg/L	EPA 625

Base-Neutral/Acid Extract in Water	Benzoic acid	<0.0040	mg/L	EPA 625
	4-chlorophenyl phenyl ether	<0.0040	mg/L	EPA 625
	2-nitrophenol	<0.0040	mg/L	EPA 625
	Isophorone	<0.0040	mg/L	EPA 625
	Nitrobenzene	<0.0040	mg/L	EPA 625
	Hexachloroethane	<0.0040	mg/L	EPA 625
	N-nitrosodi-n-propylamine	<0.0040	mg/L	EPA 625
	Naphthalene	<0.0040	mg/L	EPA 625
	Bis(2-ethylhexyl)phthalate	<0.0040	mg/L	EPA 625
	Benzo(ghi)perylene	<0.0040	mg/L	EPA 625
	2-nitroaniline	<0.0040	mg/L	EPA 625
	Indeno(1,2,3-cd)pyrene	<0.0040	mg/L	EPA 625
	Benzo(a)pyrene	<0.0040	mg/L	EPA 625
	Benzo(k)fluoranthene	<0.0040	mg/L	EPA 625
	Phenanthrene	<0.0040	mg/L	EPA 625
	Di-n-octylphthalate	<0.0040	mg/L	EPA 625
	Fluorene	<0.0040	mg/L	EPA 625
	Chrysene	<0.0040	mg/L	EPA 625
	Benzo(a)anthracene	<0.0040	mg/L	EPA 625
	Dibenzo(a,h)anthracene	<0.0040	mg/L	EPA 625
	2,4-Dinitrophenol	<0.0040	mg/L	EPA 625
	2-methyl-4,6-dinitrophenol	<0.0040	mg/L	EPA 625
	Benzo(b)fluoranthene	<0.0040	mg/L	EPA 625
	Azobenzene	<0.0040	mg/L	EPA 625
	4-nitroaniline	<0.0040	mg/L	EPA 625
	N-nitrosodiphenylamine	<0.0040	mg/L	EPA 625
	4-bromophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Hexachlorobenzene	<0.0040	mg/L	EPA 625
	Pentachlorophenol	<0.0040	mg/L	EPA 625
	Anthracene	<0.0040	mg/L	EPA 625
	Fluoranthene	<0.0040	mg/L	EPA 625
	Pyrene	<0.0040	mg/L	EPA 625
	Butylbenzyl phthalate	<0.0040	mg/L	EPA 625
	3,3'-dichlorobenzidine	<0.0040	mg/L	EPA 625
Beryllium in Water	Beryllium in Water	<0.0010	mg/L	EPA 200.7
Boron in Water	Boron in Water	3.8	mg/L	EPA 200.7
Cadmium in Water	Cadmium in Water	<0.00010	mg/L	EPA 200.8
Calcium in Water	Calcium in Water	340	mg/L	EPA 200.7
Chromium in Water	Chromium in Water	<0.0050	mg/L	EPA 200.7
Cobalt in Water	Cobalt in Water	<0.020	mg/L	EPA 200.7
Copper in Water	Copper in Water	<0.010	mg/L	EPA 200.7
Hardness	Hardness	5400	mg/L	EPA 200.7
Iron in Water	Iron in Water	1.4	mg/L	EPA 200.7
Lead in Water	Lead in Water	<0.0020	mg/L	EPA 200.8
Magnesium in Water	Magnesium in Water	1100	mg/L	EPA 200.7
Manganese in Water	Manganese in Water	0.064	mg/L	EPA 200.7
Mercury in Water	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
Molybdenum in Water	Molybdenum in Water	<0.020	mg/L	EPA 200.7
Nickel in Water	Nickel in Water	<0.020	mg/L	EPA 200.7
Pesticide/PCBs in Water	p,p'-DDT	<0.000050	mg/L	EPA 608
	Aldrin	<0.000050	mg/L	EPA 608
	alpha-BHC	<0.000050	mg/L	EPA 608
	beta-BHC	<0.000050	mg/L	EPA 608
	delta-BHC	<0.000050	mg/L	EPA 608
	Lindane	<0.000050	mg/L	EPA 608
	Chlordane	<0.00050	mg/L	EPA 608
	p,p'-DDE	<0.000050	mg/L	EPA 608
	PCB 1260	<0.00050	mg/L	EPA 608
	Dieldrin	<0.000050	mg/L	EPA 608
	Endosulfan I	<0.000050	mg/L	EPA 608
	PCB 1242	<0.00050	mg/L	EPA 608
	PCB 1254	<0.00050	mg/L	EPA 608
	p,p'-DDD	<0.000050	mg/L	EPA 608
	PCB 1248	<0.00050	mg/L	EPA 608
	Endosulfan II	<0.000050	mg/L	EPA 608
	PCB 1232	<0.00050	mg/L	EPA 608
	PCB 1221	<0.0010	mg/L	EPA 608
	PCB 1016	<0.00050	mg/L	EPA 608
	Toxaphene	<0.0025	mg/L	EPA 608
	Heptachlor epoxide	<0.000050	mg/L	EPA 608
	Heptachlor	<0.000050	mg/L	EPA 608

Pesticide/PCBs in Water	Endrin aldehyde	<0.000050	mg/L	EPA 608
	Endrin	<0.000050	mg/L	EPA 608
	Endosulfan Sulfate	<0.000050	mg/L	EPA 608
Potassium in Water	Potassium in Water	320	mg/L	EPA 200.7
Selenium in Water	Selenium in Water	<0.10	mg/L	EPA 200.7
Silver in Water	Silver in Water	<0.030	mg/L	EPA 200.7
Sodium in Water	Sodium in Water	8800	mg/L	EPA 200.7
Strontium in Water	Strontium in Water	6.5	mg/L	EPA 200.7
Thallium in Water	Thallium in Water	0.094	mg/L	EPA 200.7
Tin in Water	Tin in Water	<0.020	mg/L	EPA 200.7
Titanium in Water	Titanium in Water	0.050	mg/L	EPA 200.7
Vanadium in Water	Vanadium in Water	<0.020	mg/L	EPA 200.7
Volatile Organics in Water	Dibromochloromethane	<0.00200	mg/L	EPA 624
	Bromodichloromethane	<0.00200	mg/L	EPA 624
	2-Chloroethyl Vinyl Ether	<0.00200	mg/L	EPA 624
	Cis-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	Toluene	<0.00200	mg/L	EPA 624
	Trans-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	1,2-Dichloropropane	<0.00200	mg/L	EPA 624
	Tetrachloroethene	<0.00200	mg/L	EPA 624
	1,3-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Chlorobenzene	<0.00200	mg/L	EPA 624
	Ethyl benzene	<0.00200	mg/L	EPA 624
	Bromoform	<0.00200	mg/L	EPA 624
	1,1,2,2-tetrachloroethane	<0.00200	mg/L	EPA 624
	1,4-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,1,2-Trichloroethane	<0.00200	mg/L	EPA 624
	Chloroethane	<0.00200	mg/L	EPA 624
	Chloromethane	<0.00200	mg/L	EPA 624
	Trichloroethene	<0.00200	mg/L	EPA 624
	Vinyl chloride	<0.00200	mg/L	EPA 624
	1,2-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Bromomethane	<0.00200	mg/L	EPA 624
	Trichlorofluoromethane	<0.00200	mg/L	EPA 624
	1,1-Dichloroethene	<0.00200	mg/L	EPA 624
	Trans-1,2-Dichloroethene	<0.00200	mg/L	EPA 624
	1,1-Dichloroethane	<0.00200	mg/L	EPA 624
	1,2-Dichloroethane	<0.00200	mg/L	EPA 624
	Chloroform	<0.00200	mg/L	EPA 624
	1,1,1-trichloroethane	<0.00200	mg/L	EPA 624
	Carbon Tetrachloride	<0.00200	mg/L	EPA 624
	Methylene Chloride	<0.00200	mg/L	EPA 624
	Benzene	<0.00200	mg/L	EPA 624
Zinc in Water	Zinc in Water	<0.010	mg/L	EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS18
Matrix: WATER

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39768**
Program Charge: WPC
Collected By: BORES E
Date of Collection: 11/05/2019
Time of Collection: 12:15

Depth: 0.38
Field pH: 7.41
Field DO: 6.13
Temp. Water: 20.39
Salinity (ppt): 32.09
Conductivity (umhos/cm): 48996

Laboratory Sample Number: **AE39768**

	Analyte	Result	Units	Method Reference
Aluminum in Water	Aluminum in Water	1.3	mg/L	EPA 200.7
Antimony in Water	Antimony in Water	<0.050	mg/L	EPA 200.7
Arsenic in Water	Arsenic in Water	<0.10	mg/L	EPA 200.7
Barium in Water	Barium in Water	<0.050	mg/L	EPA 200.7
Base-Neutral/Acid Extract in Water	4-chloro-3 methyl phenol	<0.0040	mg/L	EPA 625
	Hexachlorobutadiene	<0.0040	mg/L	EPA 625
	2,4-dimethyl phenol	<0.0040	mg/L	EPA 625
	4-chloroaniline	<0.0040	mg/L	EPA 625
	Naphthalene	<0.0040	mg/L	EPA 625
	1,2,4-trichlorobenzene	<0.0040	mg/L	EPA 625
	2,4-dichlorophenol	<0.0040	mg/L	EPA 625
	Benzoic acid	<0.0040	mg/L	EPA 625
	2-nitroaniline	<0.0040	mg/L	EPA 625
	2-nitrophenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroethoxy)methane	<0.0040	mg/L	EPA 625
	2-methyl naphthalene	<0.0040	mg/L	EPA 625
	Hexachlorocyclopentadiene	<0.0040	mg/L	EPA 625
	2,4,6-trichlorophenol	<0.0040	mg/L	EPA 625
	2-chloronaphthalene	<0.0040	mg/L	EPA 625
	Dimethyl phthalate	<0.0040	mg/L	EPA 625
	Acenaphthylene	<0.0040	mg/L	EPA 625
	2,6-dinitrotoluene	<0.0040	mg/L	EPA 625
	3-nitroaniline	<0.0040	mg/L	EPA 625
	Acenaphthene	<0.0040	mg/L	EPA 625
	Isophorone	<0.0040	mg/L	EPA 625
	Benzo(a)anthracene	<0.0040	mg/L	EPA 625
	2,4,5-trichlorophenol	<0.0040	mg/L	EPA 625
	N-nitrosodimethylamine	<0.0040	mg/L	EPA 625
	4-nitrophenol	<0.0040	mg/L	EPA 625
	Phenanthrene	<0.0040	mg/L	EPA 625
	Anthracene	<0.0040	mg/L	EPA 625
	Di-n-butylphthalate	<0.0040	mg/L	EPA 625
	Fluoranthene	<0.0040	mg/L	EPA 625
	Pyrene	<0.0040	mg/L	EPA 625
	Butylbenzyl phthalate	<0.0040	mg/L	EPA 625

Base-Neutral/Acid Extract in Water	3,3'-dichlorobenzidine	<0.0040	mg/L	EPA 625
	Chrysene	<0.0040	mg/L	EPA 625
	Bis(2-ethylhexyl)phthalate	<0.0040	mg/L	EPA 625
	Benzo(b)fluoranthene	<0.0040	mg/L	EPA 625
	Nitrobenzene	<0.0040	mg/L	EPA 625
	Aniline	<0.0040	mg/L	EPA 625
	Phenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroethyl)ether	<0.0040	mg/L	EPA 625
	2-chlorophenol	<0.0040	mg/L	EPA 625
	Benzyl alcohol	<0.0040	mg/L	EPA 625
	2-methylphenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroisopropyl)ether	<0.0040	mg/L	EPA 625
	Hexachloroethane	<0.0040	mg/L	EPA 625
	N-nitrosodi-n-propylamine	<0.0040	mg/L	EPA 625
	Di-n-octylphthalate	<0.0040	mg/L	EPA 625
	Dibenzo(a,h)anthracene	<0.0040	mg/L	EPA 625
	4-methylphenol	<0.0040	mg/L	EPA 625
	Dibenzofuran	<0.0040	mg/L	EPA 625
	Benzo(ghi)perylene	<0.0040	mg/L	EPA 625
	Indeno(1,2,3-cd)pyrene	<0.0040	mg/L	EPA 625
	Benzo(a)pyrene	<0.0040	mg/L	EPA 625
	Benzo(k)fluoranthene	<0.0040	mg/L	EPA 625
	Pentachlorophenol	<0.0040	mg/L	EPA 625
	Hexachlorobenzene	<0.0040	mg/L	EPA 625
	N-nitrosodiphenylamine	<0.0040	mg/L	EPA 625
	2-methyl-4,6-dinitrophenol	<0.0040	mg/L	EPA 625
	Azobenzene	<0.0040	mg/L	EPA 625
	4-nitroaniline	<0.0040	mg/L	EPA 625
	Fluorene	<0.0040	mg/L	EPA 625
	2,4-dinitrotoluene	<0.0040	mg/L	EPA 625
	4-chlorophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Diethyl phthalate	<0.0040	mg/L	EPA 625
	4-bromophenyl phenyl ether	<0.0040	mg/L	EPA 625
	2,4-Dinitrophenol	<0.0040	mg/L	EPA 625
Beryllium in Water	Beryllium in Water	<0.0010	mg/L	EPA 200.7
Boron in Water	Boron in Water	3.8	mg/L	EPA 200.7
Cadmium in Water	Cadmium in Water	<0.00010	mg/L	EPA 200.8
Calcium in Water	Calcium in Water	360	mg/L	EPA 200.7
Chromium in Water	Chromium in Water	<0.0050	mg/L	EPA 200.7
Cobalt in Water	Cobalt in Water	<0.020	mg/L	EPA 200.7
Copper in Water	Copper in Water	<0.010	mg/L	EPA 200.7
Hardness	Hardness	5400	mg/L	EPA 200.7
Iron in Water	Iron in Water	0.53	mg/L	EPA 200.7
Lead in Water	Lead in Water	<0.0020	mg/L	EPA 200.8
Magnesium in Water	Magnesium in Water	1100	mg/L	EPA 200.7
Manganese in Water	Manganese in Water	0.026	mg/L	EPA 200.7
Mercury in Water	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
Molybdenum in Water	Molybdenum in Water	<0.020	mg/L	EPA 200.7
Nickel in Water	Nickel in Water	<0.020	mg/L	EPA 200.7
Pesticide/PCBs in Water	Chlordane	<0.00050	mg/L	EPA 608
	Aldrin	<0.000050	mg/L	EPA 608
	alpha-BHC	<0.000050	mg/L	EPA 608
	beta-BHC	<0.000050	mg/L	EPA 608
	Lindane	<0.000050	mg/L	EPA 608
	p,p'-DDD	<0.000050	mg/L	EPA 608
	p,p'-DDE	<0.000050	mg/L	EPA 608
	p,p'-DDT	<0.000050	mg/L	EPA 608
	Dieldrin	<0.000050	mg/L	EPA 608
	Endosulfan I	<0.000050	mg/L	EPA 608
	Endosulfan II	<0.000050	mg/L	EPA 608
	Endosulfan Sulfate	<0.000050	mg/L	EPA 608
	PCB 1254	<0.00050	mg/L	EPA 608
	delta-BHC	<0.000050	mg/L	EPA 608
	Endrin	<0.000050	mg/L	EPA 608
	PCB 1260	<0.00050	mg/L	EPA 608
	PCB 1248	<0.00050	mg/L	EPA 608
	PCB 1242	<0.00050	mg/L	EPA 608
	PCB 1232	<0.00050	mg/L	EPA 608
	Heptachlor	<0.000050	mg/L	EPA 608
	Endrin aldehyde	<0.000050	mg/L	EPA 608
	PCB 1221	<0.0010	mg/L	EPA 608

Pesticide/PCBs in Water	Heptachlor epoxide	<0.000050	mg/L	EPA 608
	Toxaphene	<0.0025	mg/L	EPA 608
	PCB 1016	<0.00050	mg/L	EPA 608
Potassium in Water	Potassium in Water	310	mg/L	EPA 200.7
Selenium in Water	Selenium in Water	<0.10	mg/L	EPA 200.7
Silver in Water	Silver in Water	<0.030	mg/L	EPA 200.7
Sodium in Water	Sodium in Water	8800	mg/L	EPA 200.7
Strontium in Water	Strontium in Water	6.6	mg/L	EPA 200.7
Thallium in Water	Thallium in Water	<0.030	mg/L	EPA 200.7
Tin in Water	Tin in Water	<0.020	mg/L	EPA 200.7
Titanium in Water	Titanium in Water	0.030	mg/L	EPA 200.7
Vanadium in Water	Vanadium in Water	<0.020	mg/L	EPA 200.7
Volatile Organics in Water	Cis-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	1,2-Dichloropropane	<0.00200	mg/L	EPA 624
	2-Chloroethyl Vinyl Ether	<0.00200	mg/L	EPA 624
	Bromodichloromethane	<0.00200	mg/L	EPA 624
	Trichloroethene	<0.00200	mg/L	EPA 624
	1,2-Dichloroethane	<0.00200	mg/L	EPA 624
	Benzene	<0.00200	mg/L	EPA 624
	Carbon Tetrachloride	<0.00200	mg/L	EPA 624
	Toluene	<0.00200	mg/L	EPA 624
	1,1,1-trichloroethane	<0.00200	mg/L	EPA 624
	Trans-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	1,1,2-Trichloroethane	<0.00200	mg/L	EPA 624
	Tetrachloroethene	<0.00200	mg/L	EPA 624
	Dibromochloromethane	<0.00200	mg/L	EPA 624
	Chlorobenzene	<0.00200	mg/L	EPA 624
	Ethyl benzene	<0.00200	mg/L	EPA 624
	Bromoform	<0.00200	mg/L	EPA 624
	1,1,2,2-tetrachloroethane	<0.00200	mg/L	EPA 624
	1,4-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Methylene Chloride	<0.00200	mg/L	EPA 624
	1,2-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,3-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Chloroethane	<0.00200	mg/L	EPA 624
	Chloroform	<0.00200	mg/L	EPA 624
	1,1-Dichloroethane	<0.00200	mg/L	EPA 624
	Trans-1,2-Dichloroethene	<0.00200	mg/L	EPA 624
	Trichlorofluoromethane	<0.00200	mg/L	EPA 624
	1,1-Dichloroethene	<0.00200	mg/L	EPA 624
	Bromomethane	<0.00200	mg/L	EPA 624
	Vinyl chloride	<0.00200	mg/L	EPA 624
	Chloromethane	<0.00200	mg/L	EPA 624
Zinc in Water	Zinc in Water	<0.010	mg/L	EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB8
Matrix: WATER

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39769**
Program Charge: WPC
Collected By: CHESTNUT D
Date of Collection: 11/05/2019
Time of Collection: 09:10

Field pH: 6.46

Temp. Water: 17.66

Laboratory Sample Number: **AE39769**

	Analyte	Result	Units	Method Reference
Aluminum in Water	Aluminum in Water	0.81	mg/L	EPA 200.7
Antimony in Water	Antimony in Water	<0.050	mg/L	EPA 200.7
Arsenic in Water	Arsenic in Water	<0.10	mg/L	EPA 200.7
Barium in Water	Barium in Water	0.080	mg/L	EPA 200.7
Base-Neutral/Acid Extract in Water	Hexachlorocyclopentadiene	<0.0040	mg/L	EPA 625
	4-chlorophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Diethyl phthalate	<0.0040	mg/L	EPA 625
	2,4-dinitrotoluene	<0.0040	mg/L	EPA 625
	Dibenzofuran	<0.0040	mg/L	EPA 625
	4-nitrophenol	<0.0040	mg/L	EPA 625
	Acenaphthene	<0.0040	mg/L	EPA 625
	2,4,6-trichlorophenol	<0.0040	mg/L	EPA 625
	Dimethyl phthalate	<0.0040	mg/L	EPA 625
	Phenol	<0.0040	mg/L	EPA 625
	2-methyl naphthalene	<0.0040	mg/L	EPA 625
	4-chloro-3 methyl phenol	<0.0040	mg/L	EPA 625
	2-chloronaphthalene	<0.0040	mg/L	EPA 625
	Hexachlorobutadiene	<0.0040	mg/L	EPA 625
	4-chloroaniline	<0.0040	mg/L	EPA 625
	2-nitroaniline	<0.0040	mg/L	EPA 625
	3-nitroaniline	<0.0040	mg/L	EPA 625
	2,6-dinitrotoluene	<0.0040	mg/L	EPA 625
	Acenaphthylene	<0.0040	mg/L	EPA 625
	2,4,5-trichlorophenol	<0.0040	mg/L	EPA 625
	4-methylphenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroisopropyl)ether	<0.0040	mg/L	EPA 625
	2-methylphenol	<0.0040	mg/L	EPA 625
	N-nitrosodi-n-propylamine	<0.0040	mg/L	EPA 625
	Butylbenzyl phthalate	<0.0040	mg/L	EPA 625
	Hexachloroethane	<0.0040	mg/L	EPA 625
	Fluorene	<0.0040	mg/L	EPA 625
	Benzyl alcohol	<0.0040	mg/L	EPA 625
	N-nitrosodimethylamine	<0.0040	mg/L	EPA 625
	Bis(2-chloroethyl)ether	<0.0040	mg/L	EPA 625
	Naphthalene	<0.0040	mg/L	EPA 625

Base-Neutral/Acid Extract in Water	Aniline	<0.0040	mg/L	EPA 625
	Isophorone	<0.0040	mg/L	EPA 625
	2-nitrophenol	<0.0040	mg/L	EPA 625
	2,4-dimethyl phenol	<0.0040	mg/L	EPA 625
	Benzoic acid	<0.0040	mg/L	EPA 625
	Bis(2-chloroethoxy)methane	<0.0040	mg/L	EPA 625
	2,4-dichlorophenol	<0.0040	mg/L	EPA 625
	1,2,4-trichlorobenzene	<0.0040	mg/L	EPA 625
	2-chlorophenol	<0.0040	mg/L	EPA 625
	Benzo(k)fluoranthene	<0.0040	mg/L	EPA 625
	Anthracene	<0.0040	mg/L	EPA 625
	Phenanthrene	<0.0040	mg/L	EPA 625
	Fluoranthene	<0.0040	mg/L	EPA 625
	Nitrobenzene	<0.0040	mg/L	EPA 625
	4-nitroaniline	<0.0040	mg/L	EPA 625
	Pyrene	<0.0040	mg/L	EPA 625
	3,3'-dichlorobenzidine	<0.0040	mg/L	EPA 625
	Benzo(a)anthracene	<0.0040	mg/L	EPA 625
	Chrysene	<0.0040	mg/L	EPA 625
	Bis(2-ethylhexyl)phthalate	<0.0040	mg/L	EPA 625
	Di-n-butylphthalate	<0.0040	mg/L	EPA 625
	Benzo(b)fluoranthene	<0.0040	mg/L	EPA 625
	Pentachlorophenol	<0.0040	mg/L	EPA 625
	Benzo(a)pyrene	<0.0040	mg/L	EPA 625
	Indeno(1,2,3-cd)pyrene	<0.0040	mg/L	EPA 625
	Dibenzo(a,h)anthracene	<0.0040	mg/L	EPA 625
	Benzo(ghi)perylene	<0.0040	mg/L	EPA 625
	Hexachlorobenzene	<0.0040	mg/L	EPA 625
	4-bromophenyl phenyl ether	<0.0040	mg/L	EPA 625
	N-nitrosodiphenylamine	<0.0040	mg/L	EPA 625
	2,4-Dinitrophenol	<0.0040	mg/L	EPA 625
	2-methyl-4,6-dinitrophenol	<0.0040	mg/L	EPA 625
	Azobenzene	<0.0040	mg/L	EPA 625
	Di-n-octylphthalate	<0.0040	mg/L	EPA 625
Beryllium in Water	Beryllium in Water	<0.0010	mg/L	EPA 200.7
Boron in Water	Boron in Water	1.5	mg/L	EPA 200.7
Cadmium in Water	Cadmium in Water	<0.00010	mg/L	EPA 200.8
Calcium in Water	Calcium in Water	165	mg/L	EPA 200.7
Chromium in Water	Chromium in Water	<0.0050	mg/L	EPA 200.7
Cobalt in Water	Cobalt in Water	<0.020	mg/L	EPA 200.7
Copper in Water	Copper in Water	<0.010	mg/L	EPA 200.7
Hardness	Hardness	2100	mg/L	EPA 200.7
Iron in Water	Iron in Water	1.1	mg/L	EPA 200.7
Lead in Water	Lead in Water	<0.0020	mg/L	EPA 200.8
Magnesium in Water	Magnesium in Water	410	mg/L	EPA 200.7
Manganese in Water	Manganese in Water	0.17	mg/L	EPA 200.7
Mercury in Water	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
Molybdenum in Water	Molybdenum in Water	<0.020	mg/L	EPA 200.7
Nickel in Water	Nickel in Water	<0.020	mg/L	EPA 200.7
Pesticide/PCBs in Water	Endosulfan I	<0.000050	mg/L	EPA 608
	PCB 1260	<0.00050	mg/L	EPA 608
	Aldrin	<0.000050	mg/L	EPA 608
	alpha-BHC	<0.000050	mg/L	EPA 608
	beta-BHC	<0.000050	mg/L	EPA 608
	delta-BHC	<0.000050	mg/L	EPA 608
	Lindane	<0.000050	mg/L	EPA 608
	Chlordane	<0.00050	mg/L	EPA 608
	p,p'-DDD	<0.000050	mg/L	EPA 608
	p,p'-DDE	<0.000050	mg/L	EPA 608
	p,p'-DDT	<0.000050	mg/L	EPA 608
	Dieldrin	<0.000050	mg/L	EPA 608
	Endosulfan II	<0.000050	mg/L	EPA 608
	Endrin	<0.000050	mg/L	EPA 608
	Endrin aldehyde	<0.000050	mg/L	EPA 608
	Heptachlor	<0.000050	mg/L	EPA 608
	Heptachlor epoxide	<0.000050	mg/L	EPA 608
	Toxaphene	<0.0025	mg/L	EPA 608
	PCB 1016	<0.00050	mg/L	EPA 608
	PCB 1221	<0.0010	mg/L	EPA 608
	PCB 1232	<0.00050	mg/L	EPA 608
	PCB 1242	<0.00050	mg/L	EPA 608

Pesticide/PCBs in Water	PCB 1248	<0.00050	mg/L	EPA 608
	PCB 1254	<0.00050	mg/L	EPA 608
	Endosulfan Sulfate	<0.000050	mg/L	EPA 608
Potassium in Water	Potassium in Water	130	mg/L	EPA 200.7
Selenium in Water	Selenium in Water	<0.10	mg/L	EPA 200.7
Silver in Water	Silver in Water	<0.030	mg/L	EPA 200.7
Sodium in Water	Sodium in Water	3500	mg/L	EPA 200.7
Strontium in Water	Strontium in Water	2.7	mg/L	EPA 200.7
Thallium in Water	Thallium in Water	<0.030	mg/L	EPA 200.7
Tin in Water	Tin in Water	<0.020	mg/L	EPA 200.7
Titanium in Water	Titanium in Water	<0.020	mg/L	EPA 200.7
Vanadium in Water	Vanadium in Water	<0.020	mg/L	EPA 200.7
Volatile Organics in Water	1,1,2,2-tetrachloroethane	<0.00200	mg/L	EPA 624
	1,1-Dichloroethane	<0.00200	mg/L	EPA 624
	Trans-1,2-Dichloroethene	<0.00200	mg/L	EPA 624
	Methylene Chloride	<0.00200	mg/L	EPA 624
	Chloromethane	<0.00200	mg/L	EPA 624
	Vinyl chloride	<0.00200	mg/L	EPA 624
	Bromomethane	<0.00200	mg/L	EPA 624
	Chloroethane	<0.00200	mg/L	EPA 624
	Trichlorofluoromethane	<0.00200	mg/L	EPA 624
	Chloroform	<0.00200	mg/L	EPA 624
	Bromoform	<0.00200	mg/L	EPA 624
	1,2-Dichloroethane	<0.00200	mg/L	EPA 624
	1,3-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,4-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,2-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Ethyl benzene	<0.00200	mg/L	EPA 624
	Cis-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	1,1-Dichloroethene	<0.00200	mg/L	EPA 624
	Dibromochloromethane	<0.00200	mg/L	EPA 624
	Tetrachloroethene	<0.00200	mg/L	EPA 624
	1,1,2-Trichloroethane	<0.00200	mg/L	EPA 624
	Carbon Tetrachloride	<0.00200	mg/L	EPA 624
	Toluene	<0.00200	mg/L	EPA 624
	1,1,1-trichloroethane	<0.00200	mg/L	EPA 624
	2-Chloroethyl Vinyl Ether	<0.00200	mg/L	EPA 624
	Bromodichloromethane	<0.00200	mg/L	EPA 624
	1,2-Dichloropropane	<0.00200	mg/L	EPA 624
	Trichloroethene	<0.00200	mg/L	EPA 624
	Benzene	<0.00200	mg/L	EPA 624
	Chlorobenzene	<0.00200	mg/L	EPA 624
	Trans-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
Zinc in Water	Zinc in Water	<0.010	mg/L	EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB9
Matrix: WATER

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39770**
Program Charge: WPC
Collected By: CHESTNUT D
Date of Collection: 11/05/2019
Time of Collection: 10:10

Field pH: 6.77
Field DO: 1.18
Temp. Water: 17.06

Laboratory Sample Number: **AE39770**

	Analyte	Result	Units	Method Reference
Aluminum in Water	Aluminum in Water	<0.050	mg/L	EPA 200.7
Antimony in Water	Antimony in Water	<0.050	mg/L	EPA 200.7
Arsenic in Water	Arsenic in Water	<0.10	mg/L	EPA 200.7
Barium in Water	Barium in Water	0.062	mg/L	EPA 200.7
Base-Neutral/Acid Extract in Water	2,4,5-trichlorophenol	<0.0040	mg/L	EPA 625
	Naphthalene	<0.0040	mg/L	EPA 625
	4-chloroaniline	<0.0040	mg/L	EPA 625
	Hexachlorobutadiene	<0.0040	mg/L	EPA 625
	4-chloro-3 methyl phenol	<0.0040	mg/L	EPA 625
	2-methyl naphthalene	<0.0040	mg/L	EPA 625
	2,4,6-trichlorophenol	<0.0040	mg/L	EPA 625
	2,4-Dinitrophenol	<0.0040	mg/L	EPA 625
	2-chloronaphthalene	<0.0040	mg/L	EPA 625
	2-nitroaniline	<0.0040	mg/L	EPA 625
	Dimethyl phthalate	<0.0040	mg/L	EPA 625
	Acenaphthylene	<0.0040	mg/L	EPA 625
	2,6-dinitrotoluene	<0.0040	mg/L	EPA 625
	Hexachlorocyclopentadiene	<0.0040	mg/L	EPA 625
	N-nitrosodi-n-propylamine	<0.0040	mg/L	EPA 625
	Aniline	<0.0040	mg/L	EPA 625
	Phenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroethyl)ether	<0.0040	mg/L	EPA 625
	2-chlorophenol	<0.0040	mg/L	EPA 625
	Benzyl alcohol	<0.0040	mg/L	EPA 625
	2-methylphenol	<0.0040	mg/L	EPA 625
	N-nitrosodimethylamine	<0.0040	mg/L	EPA 625
	4-methylphenol	<0.0040	mg/L	EPA 625
	2,4-dichlorophenol	<0.0040	mg/L	EPA 625
	Hexachloroethane	<0.0040	mg/L	EPA 625
	Nitrobenzene	<0.0040	mg/L	EPA 625
	Isophorone	<0.0040	mg/L	EPA 625
	2-nitrophenol	<0.0040	mg/L	EPA 625
	2,4-dimethyl phenol	<0.0040	mg/L	EPA 625
	Benzoic acid	<0.0040	mg/L	EPA 625
	Bis(2-chloroisopropyl)ether	<0.0040	mg/L	EPA 625

Base-Neutral/Acid Extract in Water	Benzo(b)fluoranthene	<0.0040	mg/L	EPA 625
	Pyrene	<0.0040	mg/L	EPA 625
	Butylbenzyl phthalate	<0.0040	mg/L	EPA 625
	3,3'-dichlorobenzidine	<0.0040	mg/L	EPA 625
	Benzo(a)anthracene	<0.0040	mg/L	EPA 625
	Chrysene	<0.0040	mg/L	EPA 625
	3-nitroaniline	<0.0040	mg/L	EPA 625
	Di-n-octylphthalate	<0.0040	mg/L	EPA 625
	Anthracene	<0.0040	mg/L	EPA 625
	Benzo(k)fluoranthene	<0.0040	mg/L	EPA 625
	Benzo(a)pyrene	<0.0040	mg/L	EPA 625
	Indeno(1,2,3-cd)pyrene	<0.0040	mg/L	EPA 625
	Dibenzo(a,h)anthracene	<0.0040	mg/L	EPA 625
	Benzo(ghi)perylene	<0.0040	mg/L	EPA 625
	Bis(2-chloroethoxy)methane	<0.0040	mg/L	EPA 625
	Bis(2-ethylhexyl)phthalate	<0.0040	mg/L	EPA 625
	2-methyl-4,6-dinitrophenol	<0.0040	mg/L	EPA 625
	4-nitrophenol	<0.0040	mg/L	EPA 625
	Dibenzofuran	<0.0040	mg/L	EPA 625
	2,4-dinitrotoluene	<0.0040	mg/L	EPA 625
	Diethyl phthalate	<0.0040	mg/L	EPA 625
	4-chlorophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Fluorene	<0.0040	mg/L	EPA 625
	Fluoranthene	<0.0040	mg/L	EPA 625
	Azobenzene	<0.0040	mg/L	EPA 625
	Di-n-butylphthalate	<0.0040	mg/L	EPA 625
	N-nitrosodiphenylamine	<0.0040	mg/L	EPA 625
	4-bromophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Hexachlorobenzene	<0.0040	mg/L	EPA 625
	Pentachlorophenol	<0.0040	mg/L	EPA 625
	Phenanthrene	<0.0040	mg/L	EPA 625
	Acenaphthene	<0.0040	mg/L	EPA 625
	4-nitroaniline	<0.0040	mg/L	EPA 625
	1,2,4-trichlorobenzene	<0.0040	mg/L	EPA 625
Beryllium in Water	Beryllium in Water	<0.0010	mg/L	EPA 200.7
Boron in Water	Boron in Water	2.3	mg/L	EPA 200.7
Cadmium in Water	Cadmium in Water	<0.00010	mg/L	EPA 200.8
Calcium in Water	Calcium in Water	240	mg/L	EPA 200.7
Chromium in Water	Chromium in Water	<0.0050	mg/L	EPA 200.7
Cobalt in Water	Cobalt in Water	<0.020	mg/L	EPA 200.7
Copper in Water	Copper in Water	<0.010	mg/L	EPA 200.7
Hardness	Hardness	3200	mg/L	EPA 200.7
Iron in Water	Iron in Water	0.36	mg/L	EPA 200.7
Lead in Water	Lead in Water	<0.0020	mg/L	EPA 200.8
Magnesium in Water	Magnesium in Water	620	mg/L	EPA 200.7
Manganese in Water	Manganese in Water	0.16	mg/L	EPA 200.7
Mercury in Water	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
Molybdenum in Water	Molybdenum in Water	<0.020	mg/L	EPA 200.7
Nickel in Water	Nickel in Water	<0.020	mg/L	EPA 200.7
Pesticide/PCBs in Water	Endrin	<0.000050	mg/L	EPA 608
	Toxaphene	<0.0025	mg/L	EPA 608
	Heptachlor	<0.000050	mg/L	EPA 608
	Endrin aldehyde	<0.000050	mg/L	EPA 608
	Endosulfan II	<0.000050	mg/L	EPA 608
	Aldrin	<0.000050	mg/L	EPA 608
	Endosulfan I	<0.000050	mg/L	EPA 608
	Heptachlor epoxide	<0.000050	mg/L	EPA 608
	PCB 1260	<0.00050	mg/L	EPA 608
	Endosulfan Sulfate	<0.000050	mg/L	EPA 608
	PCB 1016	<0.00050	mg/L	EPA 608
	alpha-BHC	<0.000050	mg/L	EPA 608
	PCB 1232	<0.00050	mg/L	EPA 608
	PCB 1242	<0.00050	mg/L	EPA 608
	PCB 1248	<0.00050	mg/L	EPA 608
	PCB 1254	<0.00050	mg/L	EPA 608
	PCB 1221	<0.0010	mg/L	EPA 608
	Dieldrin	<0.000050	mg/L	EPA 608
	p,p'-DDT	<0.000050	mg/L	EPA 608
	p,p'-DDE	<0.000050	mg/L	EPA 608
	p,p'-DDD	<0.000050	mg/L	EPA 608
	Lindane	<0.000050	mg/L	EPA 608

Pesticide/PCBs in Water	delta-BHC	<0.000050	mg/L	EPA 608
	Chlordane	<0.00050	mg/L	EPA 608
	beta-BHC	<0.000050	mg/L	EPA 608
Potassium in Water	Potassium in Water	200	mg/L	EPA 200.7
Selenium in Water	Selenium in Water	<0.10	mg/L	EPA 200.7
Silver in Water	Silver in Water	<0.030	mg/L	EPA 200.7
Sodium in Water	Sodium in Water	5500	mg/L	EPA 200.7
Strontium in Water	Strontium in Water	4.2	mg/L	EPA 200.7
Thallium in Water	Thallium in Water	0.089	mg/L	EPA 200.7
Tin in Water	Tin in Water	<0.020	mg/L	EPA 200.7
Titanium in Water	Titanium in Water	<0.020	mg/L	EPA 200.7
Vanadium in Water	Vanadium in Water	<0.020	mg/L	EPA 200.7
Volatile Organics in Water	Vinyl chloride	<0.00200	mg/L	EPA 624
	Benzene	<0.00200	mg/L	EPA 624
	1,2-Dichloroethane	<0.00200	mg/L	EPA 624
	Carbon Tetrachloride	<0.00200	mg/L	EPA 624
	1,1,1-trichloroethane	<0.00200	mg/L	EPA 624
	Chloroform	<0.00200	mg/L	EPA 624
	Trichloroethene	<0.00200	mg/L	EPA 624
	1,1-Dichloroethene	<0.00200	mg/L	EPA 624
	1,1-Dichloroethane	<0.00200	mg/L	EPA 624
	Chloroethane	<0.00200	mg/L	EPA 624
	Chloromethane	<0.00200	mg/L	EPA 624
	Bromomethane	<0.00200	mg/L	EPA 624
	1,2-Dichloropropane	<0.00200	mg/L	EPA 624
	Trichlorofluoromethane	<0.00200	mg/L	EPA 624
	Trans-1,2-Dichloroethene	<0.00200	mg/L	EPA 624
	Ethyl benzene	<0.00200	mg/L	EPA 624
	1,4-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,3-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Methylene Chloride	<0.00200	mg/L	EPA 624
	Chlorobenzene	<0.00200	mg/L	EPA 624
	1,2-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Bromoform	<0.00200	mg/L	EPA 624
	1,1,2,2-tetrachloroethane	<0.00200	mg/L	EPA 624
	Dibromochloromethane	<0.00200	mg/L	EPA 624
	Tetrachloroethene	<0.00200	mg/L	EPA 624
	1,1,2-Trichloroethane	<0.00200	mg/L	EPA 624
	Trans-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	Toluene	<0.00200	mg/L	EPA 624
	Cis-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	2-Chloroethyl Vinyl Ether	<0.00200	mg/L	EPA 624
	Bromodichloromethane	<0.00200	mg/L	EPA 624
Zinc in Water	Zinc in Water	<0.010	mg/L	EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB12
Matrix: WATER
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39771**
Program Charge: WPC
Collected By: CHESTNUT D
Date of Collection: 11/05/2019
Time of Collection: 11:05

Field pH: 7.66
Field DO: 7.40
Temp. Water: 19.24

Laboratory Sample Number: **AE39771**

	Analyte	Result	Units	Method Reference
Aluminum in Water	Aluminum in Water	0.074	mg/L	EPA 200.7
Antimony in Water	Antimony in Water	<0.050	mg/L	EPA 200.7
Arsenic in Water	Arsenic in Water	<0.10	mg/L	EPA 200.7
Barium in Water	Barium in Water	<0.050	mg/L	EPA 200.7
Base-Neutral/Acid Extract in Water	Benzoic acid	<0.0040	mg/L	EPA 625
	2-methyl naphthalene	<0.0040	mg/L	EPA 625
	N-nitrosodi-n-propylamine	<0.0040	mg/L	EPA 625
	Hexachloroethane	<0.0040	mg/L	EPA 625
	Nitrobenzene	<0.0040	mg/L	EPA 625
	Isophorone	<0.0040	mg/L	EPA 625
	2-nitrophenol	<0.0040	mg/L	EPA 625
	2,4-dimethyl phenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroethoxy)methane	<0.0040	mg/L	EPA 625
	1,2,4-trichlorobenzene	<0.0040	mg/L	EPA 625
	Naphthalene	<0.0040	mg/L	EPA 625
	4-chloroaniline	<0.0040	mg/L	EPA 625
	2,4-dichlorophenol	<0.0040	mg/L	EPA 625
	4-chloro-3 methyl phenol	<0.0040	mg/L	EPA 625
	4-nitrophenol	<0.0040	mg/L	EPA 625
	Hexachlorocyclopentadiene	<0.0040	mg/L	EPA 625
	2,4,6-trichlorophenol	<0.0040	mg/L	EPA 625
	2,4,5-trichlorophenol	<0.0040	mg/L	EPA 625
	2-chloronaphthalene	<0.0040	mg/L	EPA 625
	2-nitroaniline	<0.0040	mg/L	EPA 625
	Dimethyl phthalate	<0.0040	mg/L	EPA 625
	Acenaphthylene	<0.0040	mg/L	EPA 625
	2,6-dinitrotoluene	<0.0040	mg/L	EPA 625
	3-nitroaniline	<0.0040	mg/L	EPA 625
	Acenaphthene	<0.0040	mg/L	EPA 625
	Hexachlorobutadiene	<0.0040	mg/L	EPA 625
	Fluoranthene	<0.0040	mg/L	EPA 625
	2,4-Dinitrophenol	<0.0040	mg/L	EPA 625
	Benzo(ghi)perylene	<0.0040	mg/L	EPA 625
	Dibenzo(a,h)anthracene	<0.0040	mg/L	EPA 625
	Indeno(1,2,3-cd)pyrene	<0.0040	mg/L	EPA 625

Base-Neutral/Acid Extract in Water	Benzo(a)pyrene	<0.0040	mg/L	EPA 625
	Benzo(k)fluoranthene	<0.0040	mg/L	EPA 625
	Benzo(b)fluoranthene	<0.0040	mg/L	EPA 625
	Di-n-octylphthalate	<0.0040	mg/L	EPA 625
	Bis(2-ethylhexyl)phthalate	<0.0040	mg/L	EPA 625
	Chrysene	<0.0040	mg/L	EPA 625
	Benzo(a)anthracene	<0.0040	mg/L	EPA 625
	3,3'-dichlorobenzidine	<0.0040	mg/L	EPA 625
	Azobenzene	<0.0040	mg/L	EPA 625
	Pyrene	<0.0040	mg/L	EPA 625
	Dibenzofuran	<0.0040	mg/L	EPA 625
	Di-n-butylphthalate	<0.0040	mg/L	EPA 625
	Anthracene	<0.0040	mg/L	EPA 625
	Phenanthrene	<0.0040	mg/L	EPA 625
	Pentachlorophenol	<0.0040	mg/L	EPA 625
	Hexachlorobenzene	<0.0040	mg/L	EPA 625
	4-bromophenyl phenyl ether	<0.0040	mg/L	EPA 625
	4-nitroaniline	<0.0040	mg/L	EPA 625
	N-nitrosodiphenylamine	<0.0040	mg/L	EPA 625
	4-methylphenol	<0.0040	mg/L	EPA 625
	Fluorene	<0.0040	mg/L	EPA 625
	4-chlorophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Diethyl phthalate	<0.0040	mg/L	EPA 625
	2,4-dinitrotoluene	<0.0040	mg/L	EPA 625
	Butylbenzyl phthalate	<0.0040	mg/L	EPA 625
	2-methylphenol	<0.0040	mg/L	EPA 625
	Benzyl alcohol	<0.0040	mg/L	EPA 625
	2-chlorophenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroethyl)ether	<0.0040	mg/L	EPA 625
	Phenol	<0.0040	mg/L	EPA 625
	Aniline	<0.0040	mg/L	EPA 625
	N-nitrosodimethylamine	<0.0040	mg/L	EPA 625
	Bis(2-chloroisopropyl)ether	<0.0040	mg/L	EPA 625
	2-methyl-4,6-dinitrophenol	<0.0040	mg/L	EPA 625
Beryllium in Water	Beryllium in Water	<0.0010	mg/L	EPA 200.7
Boron in Water	Boron in Water	<0.030	mg/L	EPA 200.7
Cadmium in Water	Cadmium in Water	<0.00010	mg/L	EPA 200.8
Calcium in Water	Calcium in Water	18	mg/L	EPA 200.7
Chromium in Water	Chromium in Water	<0.0050	mg/L	EPA 200.7
Cobalt in Water	Cobalt in Water	<0.020	mg/L	EPA 200.7
Copper in Water	Copper in Water	<0.010	mg/L	EPA 200.7
Hardness	Hardness	48	mg/L	EPA 200.7
Iron in Water	Iron in Water	0.42	mg/L	EPA 200.7
Lead in Water	Lead in Water	<0.0020	mg/L	EPA 200.8
Magnesium in Water	Magnesium in Water	0.82	mg/L	EPA 200.7
Manganese in Water	Manganese in Water	<0.010	mg/L	EPA 200.7
Mercury in Water	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
Molybdenum in Water	Molybdenum in Water	<0.020	mg/L	EPA 200.7
Nickel in Water	Nickel in Water	<0.020	mg/L	EPA 200.7
Pesticide/PCBs in Water	Endosulfan II	<0.000050	mg/L	EPA 608
	p,p'-DDT	<0.000050	mg/L	EPA 608
	Aldrin	<0.000050	mg/L	EPA 608
	alpha-BHC	<0.000050	mg/L	EPA 608
	beta-BHC	<0.000050	mg/L	EPA 608
	delta-BHC	<0.000050	mg/L	EPA 608
	Lindane	<0.000050	mg/L	EPA 608
	Chlordane	<0.00050	mg/L	EPA 608
	p,p'-DDE	<0.000050	mg/L	EPA 608
	Dieldrin	<0.000050	mg/L	EPA 608
	Endosulfan I	<0.000050	mg/L	EPA 608
	PCB 1260	<0.00050	mg/L	EPA 608
	p,p'-DDD	<0.000050	mg/L	EPA 608
	Endosulfan Sulfate	<0.000050	mg/L	EPA 608
	PCB 1232	<0.00050	mg/L	EPA 608
	PCB 1242	<0.00050	mg/L	EPA 608
	PCB 1254	<0.00050	mg/L	EPA 608
	PCB 1221	<0.0010	mg/L	EPA 608
	PCB 1016	<0.00050	mg/L	EPA 608
	Heptachlor	<0.000050	mg/L	EPA 608
	Toxaphene	<0.0025	mg/L	EPA 608
	Heptachlor epoxide	<0.000050	mg/L	EPA 608

Pesticide/PCBs in Water	Endrin	<0.000050	mg/L	EPA 608
	Endrin aldehyde	<0.000050	mg/L	EPA 608
	PCB 1248	<0.00050	mg/L	EPA 608
Potassium in Water	Potassium in Water	2.0	mg/L	EPA 200.7
Selenium in Water	Selenium in Water	<0.10	mg/L	EPA 200.7
Silver in Water	Silver in Water	<0.030	mg/L	EPA 200.7
Sodium in Water	Sodium in Water	5.2	mg/L	EPA 200.7
Strontium in Water	Strontium in Water	0.059	mg/L	EPA 200.7
Thallium in Water	Thallium in Water	<0.030	mg/L	EPA 200.7
Tin in Water	Tin in Water	<0.020	mg/L	EPA 200.7
Titanium in Water	Titanium in Water	<0.020	mg/L	EPA 200.7
Vanadium in Water	Vanadium in Water	<0.020	mg/L	EPA 200.7
Volatile Organics in Water	Carbon Tetrachloride	<0.00200	mg/L	EPA 624
	Chloroform	<0.00200	mg/L	EPA 624
	Bromodichloromethane	<0.00200	mg/L	EPA 624
	Trichloroethene	<0.00200	mg/L	EPA 624
	Benzene	<0.00200	mg/L	EPA 624
	1,1,1-trichloroethane	<0.00200	mg/L	EPA 624
	2-Chloroethyl Vinyl Ether	<0.00200	mg/L	EPA 624
	1,4-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,3-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,1,2,2-tetrachloroethane	<0.00200	mg/L	EPA 624
	Bromoform	<0.00200	mg/L	EPA 624
	Ethyl benzene	<0.00200	mg/L	EPA 624
	Chlorobenzene	<0.00200	mg/L	EPA 624
	Dibromochloromethane	<0.00200	mg/L	EPA 624
	Tetrachloroethene	<0.00200	mg/L	EPA 624
	1,1,2-Trichloroethane	<0.00200	mg/L	EPA 624
	Trans-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	Toluene	<0.00200	mg/L	EPA 624
	Cis-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	1,1-Dichloroethane	<0.00200	mg/L	EPA 624
	1,2-Dichloroethane	<0.00200	mg/L	EPA 624
	1,2-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Methylene Chloride	<0.00200	mg/L	EPA 624
	1,1-Dichloroethene	<0.00200	mg/L	EPA 624
	Trichlorofluoromethane	<0.00200	mg/L	EPA 624
	Chloroethane	<0.00200	mg/L	EPA 624
	Bromomethane	<0.00200	mg/L	EPA 624
	1,2-Dichloropropane	<0.00200	mg/L	EPA 624
	Vinyl chloride	<0.00200	mg/L	EPA 624
	Trans-1,2-Dichloroethene	<0.00200	mg/L	EPA 624
	Chloromethane	<0.00200	mg/L	EPA 624
Zinc in Water	Zinc in Water	<0.010	mg/L	EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB19
Matrix: WATER

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39772**
Program Charge: WPC
Collected By: CHESTNUT D
Date of Collection: 11/05/2019
Time of Collection: 14:58

Field pH: 6.67
Field DO: 3.63
Temp. Water: 16.87

Laboratory Sample Number: **AE39772**

	Analyte	Result	Units	Method Reference
Aluminum in Water	Aluminum in Water	0.58	mg/L	EPA 200.7
Antimony in Water	Antimony in Water	<0.050	mg/L	EPA 200.7
Arsenic in Water	Arsenic in Water	<0.10	mg/L	EPA 200.7
Barium in Water	Barium in Water	0.062	mg/L	EPA 200.7
Base-Neutral/Acid Extract in Water	N-nitrosodimethylamine	<0.0040	mg/L	EPA 625
	4-methylphenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroisopropyl)ether	<0.0040	mg/L	EPA 625
	2-methylphenol	<0.0040	mg/L	EPA 625
	Benzyl alcohol	<0.0040	mg/L	EPA 625
	2-chlorophenol	<0.0040	mg/L	EPA 625
	Bis(2-chloroethyl)ether	<0.0040	mg/L	EPA 625
	Hexachloroethane	<0.0040	mg/L	EPA 625
	Aniline	<0.0040	mg/L	EPA 625
	Nitrobenzene	<0.0040	mg/L	EPA 625
	3-nitroaniline	<0.0040	mg/L	EPA 625
	Acenaphthene	<0.0040	mg/L	EPA 625
	4-nitrophenol	<0.0040	mg/L	EPA 625
	Dimethyl phthalate	<0.0040	mg/L	EPA 625
	Dibenzofuran	<0.0040	mg/L	EPA 625
	Acenaphthylene	<0.0040	mg/L	EPA 625
	2,4-dinitrotoluene	<0.0040	mg/L	EPA 625
	Phenol	<0.0040	mg/L	EPA 625
	2,4-dichlorophenol	<0.0040	mg/L	EPA 625
	2,4,5-trichlorophenol	<0.0040	mg/L	EPA 625
	2,4,6-trichlorophenol	<0.0040	mg/L	EPA 625
	Hexachlorocyclopentadiene	<0.0040	mg/L	EPA 625
	2-methyl naphthalene	<0.0040	mg/L	EPA 625
	4-chloro-3 methyl phenol	<0.0040	mg/L	EPA 625
	Hexachlorobutadiene	<0.0040	mg/L	EPA 625
	4-chloroaniline	<0.0040	mg/L	EPA 625
	N-nitrosodi-n-propylamine	<0.0040	mg/L	EPA 625
	1,2,4-trichlorobenzene	<0.0040	mg/L	EPA 625
	2-chloronaphthalene	<0.0040	mg/L	EPA 625
	Bis(2-chloroethoxy)methane	<0.0040	mg/L	EPA 625
	Benzoic acid	<0.0040	mg/L	EPA 625

Base-Neutral/Acid Extract in Water	N-nitrosodiphenylamine	<0.0040	mg/L	EPA 625
	2-nitroaniline	<0.0040	mg/L	EPA 625
	Diethyl phthalate	<0.0040	mg/L	EPA 625
	2,4-dimethyl phenol	<0.0040	mg/L	EPA 625
	2-nitrophenol	<0.0040	mg/L	EPA 625
	Isophorone	<0.0040	mg/L	EPA 625
	Naphthalene	<0.0040	mg/L	EPA 625
	2,4-Dinitrophenol	<0.0040	mg/L	EPA 625
	Butylbenzyl phthalate	<0.0040	mg/L	EPA 625
	3,3'-dichlorobenzidine	<0.0040	mg/L	EPA 625
	4-chlorophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Chrysene	<0.0040	mg/L	EPA 625
	Azobenzene	<0.0040	mg/L	EPA 625
	Bis(2-ethylhexyl)phthalate	<0.0040	mg/L	EPA 625
	Pyrene	<0.0040	mg/L	EPA 625
	Benzo(b)fluoranthene	<0.0040	mg/L	EPA 625
	Benzo(a)anthracene	<0.0040	mg/L	EPA 625
	Benzo(ghi)perylene	<0.0040	mg/L	EPA 625
	Dibenzo(a,h)anthracene	<0.0040	mg/L	EPA 625
	Indeno(1,2,3-cd)pyrene	<0.0040	mg/L	EPA 625
	Benzo(a)pyrene	<0.0040	mg/L	EPA 625
	Benzo(k)fluoranthene	<0.0040	mg/L	EPA 625
	2,6-dinitrotoluene	<0.0040	mg/L	EPA 625
	Di-n-octylphthalate	<0.0040	mg/L	EPA 625
	4-bromophenyl phenyl ether	<0.0040	mg/L	EPA 625
	Fluorene	<0.0040	mg/L	EPA 625
	Fluoranthene	<0.0040	mg/L	EPA 625
	2-methyl-4,6-dinitrophenol	<0.0040	mg/L	EPA 625
	4-nitroaniline	<0.0040	mg/L	EPA 625
	Hexachlorobenzene	<0.0040	mg/L	EPA 625
	Pentachlorophenol	<0.0040	mg/L	EPA 625
	Phenanthrene	<0.0040	mg/L	EPA 625
	Anthracene	<0.0040	mg/L	EPA 625
	Di-n-butylphthalate	<0.0040	mg/L	EPA 625
Beryllium in Water	Beryllium in Water	<0.0010	mg/L	EPA 200.7
Boron in Water	Boron in Water	<0.030	mg/L	EPA 200.7
Cadmium in Water	Cadmium in Water	<0.00010	mg/L	EPA 200.8
Calcium in Water	Calcium in Water	16	mg/L	EPA 200.7
Chromium in Water	Chromium in Water	<0.0050	mg/L	EPA 200.7
Cobalt in Water	Cobalt in Water	<0.020	mg/L	EPA 200.7
Copper in Water	Copper in Water	<0.010	mg/L	EPA 200.7
Hardness	Hardness	53	mg/L	EPA 200.7
Iron in Water	Iron in Water	1.5	mg/L	EPA 200.7
Lead in Water	Lead in Water	<0.0020	mg/L	EPA 200.8
Magnesium in Water	Magnesium in Water	3.2	mg/L	EPA 200.7
Manganese in Water	Manganese in Water	0.055	mg/L	EPA 200.7
Mercury in Water	Mercury in Water	<0.00020	mg/L	SM3112 B 22nd Ed
Molybdenum in Water	Molybdenum in Water	<0.020	mg/L	EPA 200.7
Nickel in Water	Nickel in Water	<0.020	mg/L	EPA 200.7
Pesticide/PCBs in Water	p,p'-DDD	<0.000050	mg/L	EPA 608
	Endosulfan Sulfate	<0.000050	mg/L	EPA 608
	p,p'-DDT	<0.000050	mg/L	EPA 608
	Aldrin	<0.000050	mg/L	EPA 608
	alpha-BHC	<0.000050	mg/L	EPA 608
	beta-BHC	<0.000050	mg/L	EPA 608
	delta-BHC	<0.000050	mg/L	EPA 608
	Lindane	<0.000050	mg/L	EPA 608
	Chlordane	<0.00050	mg/L	EPA 608
	p,p'-DDE	<0.000050	mg/L	EPA 608
	Dieldrin	<0.000050	mg/L	EPA 608
	PCB 1260	<0.00050	mg/L	EPA 608
	Endosulfan II	<0.000050	mg/L	EPA 608
	Endrin	<0.000050	mg/L	EPA 608
	Endrin aldehyde	<0.000050	mg/L	EPA 608
	Heptachlor	<0.000050	mg/L	EPA 608
	Heptachlor epoxide	<0.000050	mg/L	EPA 608
	Toxaphene	<0.0025	mg/L	EPA 608
	PCB 1016	<0.00050	mg/L	EPA 608
	PCB 1221	<0.0010	mg/L	EPA 608
	PCB 1232	<0.00050	mg/L	EPA 608
	PCB 1242	<0.00050	mg/L	EPA 608

Pesticide/PCBs in Water	PCB 1248	<0.00050	mg/L	EPA 608
	PCB 1254	<0.00050	mg/L	EPA 608
	Endosulfan I	<0.000050	mg/L	EPA 608
Potassium in Water	Potassium in Water	2.8	mg/L	EPA 200.7
Selenium in Water	Selenium in Water	<0.10	mg/L	EPA 200.7
Silver in Water	Silver in Water	<0.030	mg/L	EPA 200.7
Sodium in Water	Sodium in Water	9.3	mg/L	EPA 200.7
Strontium in Water	Strontium in Water	1.0	mg/L	EPA 200.7
Thallium in Water	Thallium in Water	<0.030	mg/L	EPA 200.7
Tin in Water	Tin in Water	<0.020	mg/L	EPA 200.7
Titanium in Water	Titanium in Water	<0.020	mg/L	EPA 200.7
Vanadium in Water	Vanadium in Water	<0.020	mg/L	EPA 200.7
Volatile Organics in Water	1,1,2,2-tetrachloroethane	<0.00200	mg/L	EPA 624
	2-Chloroethyl Vinyl Ether	<0.00200	mg/L	EPA 624
	Cis-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	Toluene	<0.00200	mg/L	EPA 624
	Trans-1,3-Dichloropropene	<0.00200	mg/L	EPA 624
	1,1,2-Trichloroethane	<0.00200	mg/L	EPA 624
	Tetrachloroethene	<0.00200	mg/L	EPA 624
	Dibromochloromethane	<0.00200	mg/L	EPA 624
	Chlorobenzene	<0.00200	mg/L	EPA 624
	Bromodichloromethane	<0.00200	mg/L	EPA 624
	Bromoform	<0.00200	mg/L	EPA 624
	Carbon Tetrachloride	<0.00200	mg/L	EPA 624
	1,3-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,4-Dichlorobenzene	<0.00200	mg/L	EPA 624
	1,2-Dichlorobenzene	<0.00200	mg/L	EPA 624
	Ethyl benzene	<0.00200	mg/L	EPA 624
	Trans-1,2-Dichloroethene	<0.00200	mg/L	EPA 624
	Vinyl chloride	<0.00200	mg/L	EPA 624
	Bromomethane	<0.00200	mg/L	EPA 624
	Chloroethane	<0.00200	mg/L	EPA 624
	Trichlorofluoromethane	<0.00200	mg/L	EPA 624
	1,2-Dichloroethane	<0.00200	mg/L	EPA 624
	Methylene Chloride	<0.00200	mg/L	EPA 624
	1,2-Dichloropropane	<0.00200	mg/L	EPA 624
	1,1-Dichloroethane	<0.00200	mg/L	EPA 624
	Chloroform	<0.00200	mg/L	EPA 624
	1,1,1-trichloroethane	<0.00200	mg/L	EPA 624
	Benzene	<0.00200	mg/L	EPA 624
	Chloromethane	<0.00200	mg/L	EPA 624
	Trichloroethene	<0.00200	mg/L	EPA 624
	1,1-Dichloroethene	<0.00200	mg/L	EPA 624
Zinc in Water	Zinc in Water	0.010	mg/L	EPA 200.7

Sample Comments:

Section B-1.

SCDHEC Sediment Analytical Results

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS4
Matrix: SEDIMENT
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39774**
Program Charge: WPC
Collected By: SHEARER T
Date of Collection: 11/05/2019
Time of Collection: 09:06

Laboratory Sample Number: **AE39774**

	Analyte	Result	Units	Method Reference
Arsenic in Sediment	Arsenic in Sediment	<10	mg/kg	6010B/EPA 200.7
Barium in Sediment	Barium in Sediment	36	mg/kg	6010B/EPA 200.7
Beryllium in Sediment	Beryllium in Sediment	0.56	mg/kg	6010B/EPA 200.7
Cadmium in Sediment	Cadmium in Sediment	1.5	mg/kg	6010B/EPA 200.7
Chromium in Sediment	Chromium in Sediment	35	mg/kg	6010B/EPA 200.7
Copper in Sediment	Copper in Sediment	4.2	mg/kg	6010B/EPA 200.7
Lead in Sediment	Lead in Sediment	19	mg/kg	6010B/EPA 200.7
Manganese in Sediment	Manganese in Sediment	100	mg/kg	6010B/EPA 200.7
Mercury in Sediment	Mercury in Sediment	<0.10	mg/kg	EPA 7473
Nickel in Sediment	Nickel in Sediment	9.3	mg/kg	6010B/EPA 200.7
Zinc in Sediment	Zinc in Sediment	35	mg/kg	6010B/EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB2
Matrix: SEDIMENT
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39775**
Program Charge: WPC
Collected By: SHEARER T
Date of Collection: 11/05/2019
Time of Collection: 10:11

Laboratory Sample Number: **AE39775**

	Analyte	Result	Units	Method Reference
Arsenic in Sediment	Arsenic in Sediment	<10	mg/kg	6010B/EPA 200.7
Barium in Sediment	Barium in Sediment	61	mg/kg	6010B/EPA 200.7
Beryllium in Sediment	Beryllium in Sediment	1.2	mg/kg	6010B/EPA 200.7
Cadmium in Sediment	Cadmium in Sediment	2.5	mg/kg	6010B/EPA 200.7
Chromium in Sediment	Chromium in Sediment	57	mg/kg	6010B/EPA 200.7
Copper in Sediment	Copper in Sediment	6.9	mg/kg	6010B/EPA 200.7
Lead in Sediment	Lead in Sediment	12	mg/kg	6010B/EPA 200.7
Manganese in Sediment	Manganese in Sediment	150	mg/kg	6010B/EPA 200.7
Mercury in Sediment	Mercury in Sediment	<0.10	mg/kg	EPA 7473
Nickel in Sediment	Nickel in Sediment	19	mg/kg	6010B/EPA 200.7
Zinc in Sediment	Zinc in Sediment	69	mg/kg	6010B/EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB14
Matrix: SEDIMENT
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39776**
Program Charge: WPC
Collected By: SHEARER T
Date of Collection: 11/05/2019
Time of Collection: 11:03

Laboratory Sample Number: **AE39776**

	Analyte	Result	Units	Method Reference
Arsenic in Sediment	Arsenic in Sediment	<10	mg/kg	6010B/EPA 200.7
Barium in Sediment	Barium in Sediment	53	mg/kg	6010B/EPA 200.7
Beryllium in Sediment	Beryllium in Sediment	1.1	mg/kg	6010B/EPA 200.7
Cadmium in Sediment	Cadmium in Sediment	2.3	mg/kg	6010B/EPA 200.7
Chromium in Sediment	Chromium in Sediment	53	mg/kg	6010B/EPA 200.7
Copper in Sediment	Copper in Sediment	6.3	mg/kg	6010B/EPA 200.7
Lead in Sediment	Lead in Sediment	13	mg/kg	6010B/EPA 200.7
Manganese in Sediment	Manganese in Sediment	120	mg/kg	6010B/EPA 200.7
Mercury in Sediment	Mercury in Sediment	<0.10	mg/kg	EPA 7473
Nickel in Sediment	Nickel in Sediment	16	mg/kg	6010B/EPA 200.7
Zinc in Sediment	Zinc in Sediment	63	mg/kg	6010B/EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS1
Matrix: SEDIMENT
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39777**
Program Charge: WPC
Collected By: SHEARER T
Date of Collection: 11/05/2019
Time of Collection: 11:42

Laboratory Sample Number: **AE39777**

	Analyte	Result	Units	Method Reference
Arsenic in Sediment	Arsenic in Sediment	<10	mg/kg	6010B/EPA 200.7
Barium in Sediment	Barium in Sediment	57	mg/kg	6010B/EPA 200.7
Beryllium in Sediment	Beryllium in Sediment	1.1	mg/kg	6010B/EPA 200.7
Cadmium in Sediment	Cadmium in Sediment	2.4	mg/kg	6010B/EPA 200.7
Chromium in Sediment	Chromium in Sediment	56	mg/kg	6010B/EPA 200.7
Copper in Sediment	Copper in Sediment	6.2	mg/kg	6010B/EPA 200.7
Lead in Sediment	Lead in Sediment	11	mg/kg	6010B/EPA 200.7
Manganese in Sediment	Manganese in Sediment	230	mg/kg	6010B/EPA 200.7
Mercury in Sediment	Mercury in Sediment	<0.10	mg/kg	EPA 7473
Nickel in Sediment	Nickel in Sediment	17	mg/kg	6010B/EPA 200.7
Zinc in Sediment	Zinc in Sediment	70	mg/kg	6010B/EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS18
Matrix: SEDIMENT
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39778**
Program Charge: WPC
Collected By: SHEARER T
Date of Collection: 11/05/2019
Time of Collection: 12:15

Laboratory Sample Number: **AE39778**

	Analyte	Result	Units	Method Reference
Arsenic in Sediment	Arsenic in Sediment	<10	mg/kg	6010B/EPA 200.7
Barium in Sediment	Barium in Sediment	58	mg/kg	6010B/EPA 200.7
Beryllium in Sediment	Beryllium in Sediment	1.2	mg/kg	6010B/EPA 200.7
Cadmium in Sediment	Cadmium in Sediment	2.6	mg/kg	6010B/EPA 200.7
Chromium in Sediment	Chromium in Sediment	60	mg/kg	6010B/EPA 200.7
Copper in Sediment	Copper in Sediment	6.2	mg/kg	6010B/EPA 200.7
Lead in Sediment	Lead in Sediment	10	mg/kg	6010B/EPA 200.7
Manganese in Sediment	Manganese in Sediment	260	mg/kg	6010B/EPA 200.7
Mercury in Sediment	Mercury in Sediment	<0.10	mg/kg	EPA 7473
Nickel in Sediment	Nickel in Sediment	16	mg/kg	6010B/EPA 200.7
Zinc in Sediment	Zinc in Sediment	67	mg/kg	6010B/EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB8
Matrix: SEDIMENT
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39779**
Program Charge: WPC
Collected By: CHESTNUT D
Date of Collection: 11/05/2019
Time of Collection: 09:10

Laboratory Sample Number: **AE39779**

	Analyte	Result	Units	Method Reference
Arsenic in Sediment	Arsenic in Sediment	<10	mg/kg	6010B/EPA 200.7
Barium in Sediment	Barium in Sediment	22	mg/kg	6010B/EPA 200.7
Beryllium in Sediment	Beryllium in Sediment	<0.30	mg/kg	6010B/EPA 200.7
Cadmium in Sediment	Cadmium in Sediment	<1.0	mg/kg	6010B/EPA 200.7
Chromium in Sediment	Chromium in Sediment	9.1	mg/kg	6010B/EPA 200.7
Copper in Sediment	Copper in Sediment	3.0	mg/kg	6010B/EPA 200.7
Lead in Sediment	Lead in Sediment	<5.0	mg/kg	6010B/EPA 200.7
Manganese in Sediment	Manganese in Sediment	27	mg/kg	6010B/EPA 200.7
Mercury in Sediment	Mercury in Sediment	<0.10	mg/kg	EPA 7473
Nickel in Sediment	Nickel in Sediment	2.0	mg/kg	6010B/EPA 200.7
Zinc in Sediment	Zinc in Sediment	30	mg/kg	6010B/EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB9
Matrix: SEDIMENT

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39780**
Program Charge: WPC
Collected By: CHESTNUT D
Date of Collection: 11/05/2019
Time of Collection: 10:10

Laboratory Sample Number: **AE39780**

	Analyte	Result	Units	Method Reference
Arsenic in Sediment	Arsenic in Sediment	<10	mg/kg	6010B/EPA 200.7
Barium in Sediment	Barium in Sediment	16	mg/kg	6010B/EPA 200.7
Beryllium in Sediment	Beryllium in Sediment	<0.30	mg/kg	6010B/EPA 200.7
Cadmium in Sediment	Cadmium in Sediment	<1.0	mg/kg	6010B/EPA 200.7
Chromium in Sediment	Chromium in Sediment	8.4	mg/kg	6010B/EPA 200.7
Copper in Sediment	Copper in Sediment	3.3	mg/kg	6010B/EPA 200.7
Lead in Sediment	Lead in Sediment	<5.0	mg/kg	6010B/EPA 200.7
Manganese in Sediment	Manganese in Sediment	39	mg/kg	6010B/EPA 200.7
Mercury in Sediment	Mercury in Sediment	<0.10	mg/kg	EPA 7473
Nickel in Sediment	Nickel in Sediment	2.2	mg/kg	6010B/EPA 200.7
Zinc in Sediment	Zinc in Sediment	23	mg/kg	6010B/EPA 200.7

Sample Comments:

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB12
Matrix: SEDIMENT
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39781**
Program Charge: WPC
Collected By: CHESTNUT D
Date of Collection: 11/05/2019
Time of Collection: 11:05

Laboratory Sample Number: **AE39781**

	Analyte	Result	Units	Method Reference
Canceled	Canceled	See Comments		

Sample Comments: Sample collection problem, all analytes.

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB19
Matrix: SEDIMENT

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE39782**
Program Charge: WPC
Collected By: CHESTNUT D
Date of Collection: 11/05/2019
Time of Collection: 12:00

Laboratory Sample Number: **AE39782**

	Analyte	Result	Units	Method Reference
Arsenic in Sediment	Arsenic in Sediment	<10	mg/kg	6010B/EPA 200.7
Barium in Sediment	Barium in Sediment	76	mg/kg	6010B/EPA 200.7
Beryllium in Sediment	Beryllium in Sediment	<0.30	mg/kg	6010B/EPA 200.7
Cadmium in Sediment	Cadmium in Sediment	<1.0	mg/kg	6010B/EPA 200.7
Chromium in Sediment	Chromium in Sediment	20	mg/kg	6010B/EPA 200.7
Copper in Sediment	Copper in Sediment	4.0	mg/kg	6010B/EPA 200.7
Lead in Sediment	Lead in Sediment	9.0	mg/kg	6010B/EPA 200.7
Manganese in Sediment	Manganese in Sediment	54	mg/kg	6010B/EPA 200.7
Mercury in Sediment	Mercury in Sediment	<0.10	mg/kg	EPA 7473
Nickel in Sediment	Nickel in Sediment	4.8	mg/kg	6010B/EPA 200.7
Zinc in Sediment	Zinc in Sediment	59	mg/kg	6010B/EPA 200.7

Sample Comments:

Section B-2.

Shealy Environmental Services, Inc. Sediment Analytical Results

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

SC DHEC
2600 Bull Street
Columbia, SC 29201
Attention: David Chestnut

Project Name: Able Contracting - Okatee River

Lot Number:**UK06058**

Date Completed:11/18/2019

11/20/2019 1:11 PM
Approved and released by:
Project Manager: Kelly M. Nance

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
SC DHEC
Lot Number: UK06058

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" qualifier

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Volatiles
The laboratory control sample (LCS) associated with batch 35292 had bromomethane (methyl bromide) recovered marginally outside of the acceptance limits. Due to the large number of analytes in the LCS, there is a high statistical probability of a few analytes outside of control limits. Per SW-846 Update V 8000D- 23 Revision 4 July 2014, a number of analytes should be allowed to marginally fail the limits without requirement for corrective action. The laboratory's SOP allows for 10% of analytes to recover marginally outside criteria.

Samples -002, -003, and -004 had acetone recovered above the instrument's calibration range. The samples were re-analyzed high level from the methanol vial; however, acetone was not detected at the elevated reporting limits.

Semivolatiles
Samples -001, -002, -003, and -004 were diluted 5X due to the sample matrix. The reporting limits have been raised accordingly.

Pesticides
Samples -001, -002, and -003 were diluted 50X and sample -004 was diluted 20X due to the sample matrix. The reporting limits have been raised accordingly.

Sample Summary
SC DHEC
Lot Number: UK06058

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	OSB8	Solid	11/05/2019 0910	11/06/2019
002	OSB9	Solid	11/05/2019 1010	11/06/2019
003	OSB12	Solid	11/05/2019 1105	11/06/2019
004	OSB19	Solid	11/05/2019 1200	11/06/2019

(4 samples)

Detection Summary

SC DHEC

Lot Number: UK06058

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	OSB8	Solid	2-Butanone (MEK)	8260B	410	J	ug/kg	10
001	OSB8	Solid	Methyl acetate	8260B	680		ug/kg	10
001	OSB8	Solid	Endosulfan sulfate	8081B	63	J	ug/kg	15
002	OSB9	Solid	Acetone	8260B	450	E	ug/kg	16
003	OSB12	Solid	Acetone	8260B	2200	E	ug/kg	22
003	OSB12	Solid	2-Butanone (MEK)	8260B	22	J	ug/kg	22
004	OSB19	Solid	Acetone	8260B	1200	E	ug/kg	28
004	OSB19	Solid	2-Butanone (MEK)	8260B	35	J	ug/kg	28
004	OSB19	Solid	Methylene chloride	8260B	6.5	J	ug/kg	28

(9 detections)

Volatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-001**

Description: **OSB8** Matrix: **Solid**

Date Sampled: **11/05/2019 0910** % Solids: **67.7** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0045	ALR1		35292	6.10

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		1700	340	ug/kg	2
Benzene	71-43-2	8260B	ND		420	170	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		420	170	ug/kg	2
Bromoform	75-25-2	8260B	ND		420	170	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		420	170	ug/kg	2
2-Butanone (MEK)	**78-93-3**	**8260B**	**410**	**J**	**1700**	**340**	**ug/kg**	**2**
Carbon disulfide	75-15-0	8260B	ND		420	170	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		420	170	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		420	170	ug/kg	2
Chloroethane	75-00-3	8260B	ND		420	170	ug/kg	2
Chloroform	67-66-3	8260B	ND		420	170	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		420	170	ug/kg	2
Cyclohexane	110-82-7	8260B	ND		420	170	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		420	170	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		420	170	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		420	170	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		420	170	ug/kg	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		420	170	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		420	170	ug/kg	2
Dichlorodifluoromethane	75-71-8	8260B	ND		420	170	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		420	170	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		420	170	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		420	170	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		420	170	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		420	170	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		420	170	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		420	170	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		420	170	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		420	170	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		840	340	ug/kg	2
Isopropylbenzene	98-82-8	8260B	ND		420	170	ug/kg	2
Methyl acetate	**79-20-9**	**8260B**	**680**		**420**	**170**	**ug/kg**	**2**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		420	170	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		840	340	ug/kg	2
Methylcyclohexane	108-87-2	8260B	ND		420	170	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		420	170	ug/kg	2
Styrene	100-42-5	8260B	ND		420	170	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		420	170	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		420	170	ug/kg	2
Toluene	108-88-3	8260B	ND		420	170	ug/kg	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		420	170	ug/kg	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		420	170	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		420	170	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		420	170	ug/kg	2

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-001**

Description: **OSB8** Matrix: **Solid**

Date Sampled: **11/05/2019 0910** % Solids: **67.7** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0045	ALR1		35292	6.10

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		420	170	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		420	170	ug/kg	2
Vinyl chloride	75-01-4	8260B	ND		420	170	ug/kg	2
Xylenes (total)	1330-20-7	8260B	ND		840	340	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		77	53-142
Bromofluorobenzene		85	47-138
Toluene-d8		84	68-124

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-001**

Description: **OSB8** Matrix: **Solid**

Date Sampled: **11/05/2019 0910** % Solids: **67.7** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/18/2019 1855	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND		96	37	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		96	24	ug/kg	1
Acetophenone	98-86-2	8270D	ND		490	51	ug/kg	1
Anthracene	120-12-7	8270D	ND		96	19	ug/kg	1
Atrazine	1912-24-9	8270D	ND		490	37	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		490	37	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		96	15	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		96	13	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		96	14	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		96	28	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		96	16	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		490	37	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		490	37	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		490	37	ug/kg	1
Caprolactam	105-60-2	8270D	ND		490	87	ug/kg	1
Carbazole	86-74-8	8270D	ND		490	37	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		490	49	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		490	41	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		490	43	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		490	37	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		490	40	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		490	93	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		490	78	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		490	37	ug/kg	1
Chrysene	218-01-9	8270D	ND		96	23	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		96	22	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		490	37	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		490	74	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		490	49	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		490	37	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		490	37	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		490	80	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		490	72	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		2400	180	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		2400	180	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		960	90	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		960	79	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		490	37	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		490	180	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		96	16	ug/kg	1
Fluorene	86-73-7	8270D	ND		96	14	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		490	37	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		490	63	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		2400	180	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-001**

Description: **OSB8** Matrix: **Solid**

Date Sampled: **11/05/2019 0910** % Solids: **67.7** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/18/2019 1855	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		490	40	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		96	20	ug/kg	1
Isophorone	78-59-1	8270D	ND		490	46	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		96	43	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		490	130	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		960	120	ug/kg	1
Naphthalene	91-20-3	8270D	ND		96	35	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		960	140	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		960	140	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		960	150	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		490	57	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		960	74	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		2400	760	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		490	42	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		490	38	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		2400	200	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		96	17	ug/kg	1
Phenol	108-95-2	8270D	ND		490	46	ug/kg	1
Pyrene	129-00-0	8270D	ND		96	21	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		490	37	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		490	37	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		56	24-137
2-Fluorophenol		36	16-136
Nitrobenzene-d5		35	12-144
Phenol-d5		41	26-148
Terphenyl-d14		75	20-127
2,4,6-Tribromophenol		61	27-128

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PCBs by GC

Client: **SC DHEC** Laboratory ID: **UK06058-001**

Description: **OSB8** Matrix: **Solid**

Date Sampled: **11/05/2019 0910** % Solids: **67.7** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	11/15/2019 1720	CHG	11/14/2019 2108	35771

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		14	3.8	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		14	3.3	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		14	3.0	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		14	2.2	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		14	5.8	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		14	3.5	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		14	3.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		90	41-132
Tetrachloro-m-xylene		98	35-106

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Organochlorine Pesticides by GC

Client: **SC DHEC** Laboratory ID: **UK06058-001**

Description: **OSB8** Matrix: **Solid**

Date Sampled: **11/05/2019 0910** % Solids: **67.7** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	50	11/15/2019 1741	DAL1	11/14/2019 2108	35772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND		70	9.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		70	14	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		70	8.4	ug/kg	1
beta-BHC	319-85-7	8081B	ND		70	18	ug/kg	1
delta-BHC	319-86-8	8081B	ND		70	15	ug/kg	1
Chlordane	57-74-9	8081B	ND		140	65	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		70	15	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		70	9.8	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		70	13	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		70	9.8	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		70	11	ug/kg	1
Dieldrin	60-57-1	8081B	ND		70	9.8	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		70	13	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		70	18	ug/kg	1
Endosulfan sulfate	**1031-07-8**	**8081B**	**63**	**J**	**70**	**15**	**ug/kg**	**1**
Endrin	72-20-8	8081B	ND		70	16	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		70	9.8	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		70	11	ug/kg	1
Heptachlor	76-44-8	8081B	ND		70	9.8	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		70	11	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		280	13	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		700	250	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		93	57-110
Tetrachloro-m-xylene		96	39-116

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-002**

Description: **OSB9** Matrix: **Solid**

Date Sampled: **11/05/2019 1010** % Solids: **64.2** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035	8260B	1	11/13/2019 0029	ALR1		35469	7.53

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260B**	**450**	**E**	**21**	**8.3**	**ug/kg**	**3**
Benzene	71-43-2	8260B	ND		5.2	2.1	ug/kg	3
Bromodichloromethane	75-27-4	8260B	ND		5.2	2.1	ug/kg	3
Bromoform	75-25-2	8260B	ND		5.2	2.1	ug/kg	3
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.2	3.1	ug/kg	3
2-Butanone (MEK)	78-93-3	8260B	ND		21	4.1	ug/kg	3
Carbon disulfide	75-15-0	8260B	ND		5.2	2.1	ug/kg	3
Carbon tetrachloride	56-23-5	8260B	ND		5.2	2.1	ug/kg	3
Chlorobenzene	108-90-7	8260B	ND		5.2	2.1	ug/kg	3
Chloroethane	75-00-3	8260B	ND		5.2	2.1	ug/kg	3
Chloroform	67-66-3	8260B	ND		5.2	2.1	ug/kg	3
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.2	3.1	ug/kg	3
Cyclohexane	110-82-7	8260B	ND		5.2	2.1	ug/kg	3
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.2	2.1	ug/kg	3
Dibromochloromethane	124-48-1	8260B	ND		5.2	2.1	ug/kg	3
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.2	2.1	ug/kg	3
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.2	2.1	ug/kg	3
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.2	2.1	ug/kg	3
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.2	2.1	ug/kg	3
Dichlorodifluoromethane	75-71-8	8260B	ND		5.2	3.1	ug/kg	3
1,1-Dichloroethane	75-34-3	8260B	ND		5.2	2.1	ug/kg	3
1,2-Dichloroethane	107-06-2	8260B	ND		5.2	2.1	ug/kg	3
1,1-Dichloroethene	75-35-4	8260B	ND		5.2	2.1	ug/kg	3
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.2	2.1	ug/kg	3
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.2	2.1	ug/kg	3
1,2-Dichloropropane	78-87-5	8260B	ND		5.2	2.1	ug/kg	3
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.2	2.1	ug/kg	3
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.2	2.1	ug/kg	3
Ethylbenzene	100-41-4	8260B	ND		5.2	2.1	ug/kg	3
2-Hexanone	591-78-6	8260B	ND		10	4.1	ug/kg	3
Isopropylbenzene	98-82-8	8260B	ND		5.2	2.1	ug/kg	3
Methyl acetate	79-20-9	8260B	ND		5.2	2.1	ug/kg	3
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.2	2.1	ug/kg	3
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	4.1	ug/kg	3
Methylcyclohexane	108-87-2	8260B	ND		5.2	2.1	ug/kg	3
Methylene chloride	75-09-2	8260B	ND		5.2	2.1	ug/kg	3
Styrene	100-42-5	8260B	ND		5.2	2.1	ug/kg	3
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.2	2.1	ug/kg	3
Tetrachloroethene	127-18-4	8260B	ND		5.2	2.1	ug/kg	3
Toluene	108-88-3	8260B	ND		5.2	2.1	ug/kg	3
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.2	2.1	ug/kg	3
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.2	2.1	ug/kg	3
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.2	2.1	ug/kg	3
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.2	2.1	ug/kg	3

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Client: **SC DHEC** | Laboratory ID: **UK06058-002**

Description: **OSB9** | Matrix: **Solid**

Date Sampled: **11/05/2019 1010** | % Solids: **64.2** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035	8260B	1	11/13/2019 0029	ALR1		35469	7.53

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.2	2.1	ug/kg	3
Trichlorofluoromethane	75-69-4	8260B	ND		5.2	2.1	ug/kg	3
Vinyl chloride	75-01-4	8260B	ND		5.2	3.1	ug/kg	3
Xylenes (total)	1330-20-7	8260B	ND		10	4.1	ug/kg	3

Surrogate	Q	Run 3 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		73	53-142
Bromofluorobenzene		91	47-138
Toluene-d8		102	68-124

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-002**

Description: **OSB9** Matrix: **Solid**

Date Sampled: **11/05/2019 1010** % Solids: **64.2** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/18/2019 1918	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND		100	39	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		100	25	ug/kg	1
Acetophenone	98-86-2	8270D	ND		520	54	ug/kg	1
Anthracene	120-12-7	8270D	ND		100	20	ug/kg	1
Atrazine	1912-24-9	8270D	ND		520	39	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		520	39	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		100	15	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		100	13	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		100	15	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		100	29	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		100	17	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		520	39	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		520	39	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		520	39	ug/kg	1
Caprolactam	105-60-2	8270D	ND		520	92	ug/kg	1
Carbazole	86-74-8	8270D	ND		520	39	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		520	52	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		520	44	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		520	45	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		520	39	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		520	42	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		520	98	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		520	83	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		520	39	ug/kg	1
Chrysene	218-01-9	8270D	ND		100	24	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		100	23	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		520	39	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		520	78	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		520	51	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		520	39	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		520	39	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		520	84	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		520	76	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		2600	190	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		2600	190	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		1000	95	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		1000	83	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		520	39	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		520	190	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		100	17	ug/kg	1
Fluorene	86-73-7	8270D	ND		100	15	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		520	39	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		520	66	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		2600	190	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-002**

Description: **OSB9** Matrix: **Solid**

Date Sampled: **11/05/2019 1010** % Solids: **64.2** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/18/2019 1918	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		520	42	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		100	21	ug/kg	1
Isophorone	78-59-1	8270D	ND		520	48	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		100	46	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		520	140	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1000	130	ug/kg	1
Naphthalene	91-20-3	8270D	ND		100	36	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		1000	140	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		1000	140	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		1000	160	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		520	61	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		1000	78	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		2600	810	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		520	45	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		520	40	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		2600	210	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		100	18	ug/kg	1
Phenol	108-95-2	8270D	ND		520	49	ug/kg	1
Pyrene	129-00-0	8270D	ND		100	22	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		520	39	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		520	39	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		42	24-137
2-Fluorophenol		34	16-136
Nitrobenzene-d5		27	12-144
Phenol-d5		26	26-148
Terphenyl-d14		81	20-127
2,4,6-Tribromophenol		65	27-128

LOQ = Limit of Quantitation
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P = The RPD between two GC columns exceeds 40%
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H = Out of holding time
W = Reported on wet weight basis

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PCBs by GC

Client: **SC DHEC** Laboratory ID: **UK06058-002**

Description: **OSB9** Matrix: **Solid**

Date Sampled: **11/05/2019 1010** % Solids: **64.2** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	11/15/2019 1734	CHG	11/14/2019 2108	35771

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		15	4.1	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		15	3.5	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		15	3.2	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		15	2.3	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		15	6.2	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		15	3.8	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		15	3.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		94	41-132
Tetrachloro-m-xylene		95	35-106

LOQ = Limit of Quantitation
B = Detected in the method blank
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J = Estimated result < LOQ and ≥ DL
H = Out of holding time
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Organochlorine Pesticides by GC

Client: **SC DHEC** Laboratory ID: **UK06058-002**

Description: **OSB9** Matrix: **Solid**

Date Sampled: **11/05/2019 1010** % Solids: **64.2** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	50	11/15/2019 1756	DAL1	11/14/2019 2108	35772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND		75	9.7	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		75	15	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		75	9.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		75	19	ug/kg	1
delta-BHC	319-86-8	8081B	ND		75	16	ug/kg	1
Chlordane	57-74-9	8081B	ND		150	69	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		75	16	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		75	10	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		75	13	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		75	10	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		75	11	ug/kg	1
Dieldrin	60-57-1	8081B	ND		75	10	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		75	14	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		75	19	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		75	16	ug/kg	1
Endrin	72-20-8	8081B	ND		75	17	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		75	10	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		75	12	ug/kg	1
Heptachlor	76-44-8	8081B	ND		75	10	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		75	12	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		300	14	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		750	270	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		93	57-110
Tetrachloro-m-xylene		89	39-116

LOQ = Limit of Quantitation
B = Detected in the method blank
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DL = Detection Limit
ND = Not detected at or above the DL
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P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-003**

Description: **OSB12** Matrix: **Solid**

Date Sampled: **11/05/2019 1105** % Solids: **24.3** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035	8260B	1	11/13/2019 0051	ALR1		35469	4.94

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260B**	**2200**	**E**	**83**	**33**	**ug/kg**	**3**
Benzene	71-43-2	8260B	ND		21	8.3	ug/kg	3
Bromodichloromethane	75-27-4	8260B	ND		21	8.3	ug/kg	3
Bromoform	75-25-2	8260B	ND		21	8.3	ug/kg	3
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		21	13	ug/kg	3
2-Butanone (MEK)	**78-93-3**	**8260B**	**22**	**J**	**83**	**17**	**ug/kg**	**3**
Carbon disulfide	75-15-0	8260B	ND		21	8.3	ug/kg	3
Carbon tetrachloride	56-23-5	8260B	ND		21	8.3	ug/kg	3
Chlorobenzene	108-90-7	8260B	ND		21	8.3	ug/kg	3
Chloroethane	75-00-3	8260B	ND		21	8.3	ug/kg	3
Chloroform	67-66-3	8260B	ND		21	8.3	ug/kg	3
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		21	13	ug/kg	3
Cyclohexane	110-82-7	8260B	ND		21	8.3	ug/kg	3
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		21	8.3	ug/kg	3
Dibromochloromethane	124-48-1	8260B	ND		21	8.3	ug/kg	3
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		21	8.3	ug/kg	3
1,2-Dichlorobenzene	95-50-1	8260B	ND		21	8.3	ug/kg	3
1,3-Dichlorobenzene	541-73-1	8260B	ND		21	8.3	ug/kg	3
1,4-Dichlorobenzene	106-46-7	8260B	ND		21	8.3	ug/kg	3
Dichlorodifluoromethane	75-71-8	8260B	ND		21	13	ug/kg	3
1,1-Dichloroethane	75-34-3	8260B	ND		21	8.3	ug/kg	3
1,2-Dichloroethane	107-06-2	8260B	ND		21	8.3	ug/kg	3
1,1-Dichloroethene	75-35-4	8260B	ND		21	8.3	ug/kg	3
cis-1,2-Dichloroethene	156-59-2	8260B	ND		21	8.3	ug/kg	3
trans-1,2-Dichloroethene	156-60-5	8260B	ND		21	8.3	ug/kg	3
1,2-Dichloropropane	78-87-5	8260B	ND		21	8.3	ug/kg	3
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		21	8.3	ug/kg	3
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		21	8.3	ug/kg	3
Ethylbenzene	100-41-4	8260B	ND		21	8.3	ug/kg	3
2-Hexanone	591-78-6	8260B	ND		42	17	ug/kg	3
Isopropylbenzene	98-82-8	8260B	ND		21	8.3	ug/kg	3
Methyl acetate	79-20-9	8260B	ND		21	8.3	ug/kg	3
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		21	8.3	ug/kg	3
4-Methyl-2-pentanone	108-10-1	8260B	ND		42	17	ug/kg	3
Methylcyclohexane	108-87-2	8260B	ND		21	8.3	ug/kg	3
Methylene chloride	75-09-2	8260B	ND		21	8.3	ug/kg	3
Styrene	100-42-5	8260B	ND		21	8.3	ug/kg	3
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		21	8.3	ug/kg	3
Tetrachloroethene	127-18-4	8260B	ND		21	8.3	ug/kg	3
Toluene	108-88-3	8260B	ND		21	8.3	ug/kg	3
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		21	8.3	ug/kg	3
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		21	8.3	ug/kg	3
1,1,1-Trichloroethane	71-55-6	8260B	ND		21	8.3	ug/kg	3
1,1,2-Trichloroethane	79-00-5	8260B	ND		21	8.3	ug/kg	3

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-003**

Description: **OSB12** Matrix: **Solid**

Date Sampled: **11/05/2019 1105** % Solids: **24.3** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035	8260B	1	11/13/2019 0051	ALR1		35469	4.94

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		21	8.3	ug/kg	3
Trichlorofluoromethane	75-69-4	8260B	ND		21	8.3	ug/kg	3
Vinyl chloride	75-01-4	8260B	ND		21	13	ug/kg	3
Xylenes (total)	1330-20-7	8260B	ND		42	17	ug/kg	3

Surrogate	Q	Run 3 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		77	53-142
Bromofluorobenzene		90	47-138
Toluene-d8		104	68-124

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-003**

Description: **OSB12** Matrix: **Solid**

Date Sampled: **11/05/2019 1105** % Solids: **24.3** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/18/2019 1941	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND		260	100	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		260	65	ug/kg	1
Acetophenone	98-86-2	8270D	ND		1400	140	ug/kg	1
Anthracene	120-12-7	8270D	ND		260	52	ug/kg	1
Atrazine	1912-24-9	8270D	ND		1400	100	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1400	100	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		260	40	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		260	35	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		260	39	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		260	77	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		260	43	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		1400	100	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1400	100	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		1400	100	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1400	240	ug/kg	1
Carbazole	86-74-8	8270D	ND		1400	100	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		1400	140	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1400	110	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		1400	120	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1400	100	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		1400	110	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		1400	250	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		1400	220	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1400	100	ug/kg	1
Chrysene	218-01-9	8270D	ND		260	63	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		260	61	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		1400	100	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1400	200	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1400	130	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		1400	100	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		1400	100	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1400	220	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		1400	200	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		6700	510	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		6700	510	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2600	250	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2600	220	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		1400	100	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		1400	510	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		260	44	ug/kg	1
Fluorene	86-73-7	8270D	ND		260	39	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		1400	100	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		1400	170	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		6700	510	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-003**

Description: **OSB12** Matrix: **Solid**

Date Sampled: **11/05/2019 1105** % Solids: **24.3** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/18/2019 1941	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		1400	110	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		260	55	ug/kg	1
Isophorone	78-59-1	8270D	ND		1400	130	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		260	120	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		1400	360	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		2600	340	ug/kg	1
Naphthalene	91-20-3	8270D	ND		260	95	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		2600	380	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		2600	370	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		2600	410	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		1400	160	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		2600	200	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		6700	2100	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1400	120	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1400	100	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		6700	540	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		260	46	ug/kg	1
Phenol	108-95-2	8270D	ND		1400	130	ug/kg	1
Pyrene	129-00-0	8270D	ND		260	58	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1400	100	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1400	100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		45	24-137
2-Fluorophenol		34	16-136
Nitrobenzene-d5		28	12-144
Phenol-d5		35	26-148
Terphenyl-d14		65	20-127
2,4,6-Tribromophenol		59	27-128

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PCBs by GC

Client: **SC DHEC**
Laboratory ID: **UK06058-003**
Description: **OSB12**
Matrix: **Solid**
Date Sampled: **11/05/2019 1105**
% Solids: **24.3** **11/07/2019 0048**
Date Received: **11/06/2019**

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	11/15/2019 1747	CHG	11/14/2019 2108	35771

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		40	11	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		40	9.3	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		40	8.5	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		40	6.2	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		40	16	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		40	10	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		40	9.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		101	41-132
Tetrachloro-m-xylene		97	35-106

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Organochlorine Pesticides by GC

Client: **SC DHEC** Laboratory ID: **UK06058-003**

Description: **OSB12** Matrix: **Solid**

Date Sampled: **11/05/2019 1105** % Solids: **24.3** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	50	11/15/2019 1810	DAL1	11/14/2019 2108	35772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND		200	26	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		200	40	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		200	24	ug/kg	1
beta-BHC	319-85-7	8081B	ND		200	52	ug/kg	1
delta-BHC	319-86-8	8081B	ND		200	42	ug/kg	1
Chlordane	57-74-9	8081B	ND		400	180	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		200	44	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		200	28	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		200	36	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		200	28	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		200	30	ug/kg	1
Dieldrin	60-57-1	8081B	ND		200	28	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		200	38	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		200	52	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		200	42	ug/kg	1
Endrin	72-20-8	8081B	ND		200	46	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		200	28	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		200	32	ug/kg	1
Heptachlor	76-44-8	8081B	ND		200	28	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		200	32	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		800	38	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		2000	710	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		96	57-110
Tetrachloro-m-xylene		106	39-116

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-004**

Description: **OSB19** Matrix: **Solid**

Date Sampled: **11/05/2019 1200** % Solids: **38.9** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035	8260B	1	11/13/2019 0114	ALR1		35469	4.72

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260B**	**1200**	**E**	**54**	**22**	**ug/kg**	**3**
Benzene	71-43-2	8260B	ND		14	5.4	ug/kg	3
Bromodichloromethane	75-27-4	8260B	ND		14	5.4	ug/kg	3
Bromoform	75-25-2	8260B	ND		14	5.4	ug/kg	3
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		14	8.2	ug/kg	3
2-Butanone (MEK)	**78-93-3**	**8260B**	**35**	**J**	**54**	**11**	**ug/kg**	**3**
Carbon disulfide	75-15-0	8260B	ND		14	5.4	ug/kg	3
Carbon tetrachloride	56-23-5	8260B	ND		14	5.4	ug/kg	3
Chlorobenzene	108-90-7	8260B	ND		14	5.4	ug/kg	3
Chloroethane	75-00-3	8260B	ND		14	5.4	ug/kg	3
Chloroform	67-66-3	8260B	ND		14	5.4	ug/kg	3
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		14	8.2	ug/kg	3
Cyclohexane	110-82-7	8260B	ND		14	5.4	ug/kg	3
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		14	5.4	ug/kg	3
Dibromochloromethane	124-48-1	8260B	ND		14	5.4	ug/kg	3
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		14	5.4	ug/kg	3
1,2-Dichlorobenzene	95-50-1	8260B	ND		14	5.4	ug/kg	3
1,3-Dichlorobenzene	541-73-1	8260B	ND		14	5.4	ug/kg	3
1,4-Dichlorobenzene	106-46-7	8260B	ND		14	5.4	ug/kg	3
Dichlorodifluoromethane	75-71-8	8260B	ND		14	8.2	ug/kg	3
1,1-Dichloroethane	75-34-3	8260B	ND		14	5.4	ug/kg	3
1,2-Dichloroethane	107-06-2	8260B	ND		14	5.4	ug/kg	3
1,1-Dichloroethene	75-35-4	8260B	ND		14	5.4	ug/kg	3
cis-1,2-Dichloroethene	156-59-2	8260B	ND		14	5.4	ug/kg	3
trans-1,2-Dichloroethene	156-60-5	8260B	ND		14	5.4	ug/kg	3
1,2-Dichloropropane	78-87-5	8260B	ND		14	5.4	ug/kg	3
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		14	5.4	ug/kg	3
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		14	5.4	ug/kg	3
Ethylbenzene	100-41-4	8260B	ND		14	5.4	ug/kg	3
2-Hexanone	591-78-6	8260B	ND		27	11	ug/kg	3
Isopropylbenzene	98-82-8	8260B	ND		14	5.4	ug/kg	3
Methyl acetate	79-20-9	8260B	ND		14	5.4	ug/kg	3
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		14	5.4	ug/kg	3
4-Methyl-2-pentanone	108-10-1	8260B	ND		27	11	ug/kg	3
Methylcyclohexane	108-87-2	8260B	ND		14	5.4	ug/kg	3
Methylene chloride	**75-09-2**	**8260B**	**6.5**	**J**	**14**	**5.4**	**ug/kg**	**3**
Styrene	100-42-5	8260B	ND		14	5.4	ug/kg	3
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		14	5.4	ug/kg	3
Tetrachloroethene	127-18-4	8260B	ND		14	5.4	ug/kg	3
Toluene	108-88-3	8260B	ND		14	5.4	ug/kg	3
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		14	5.4	ug/kg	3
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		14	5.4	ug/kg	3
1,1,1-Trichloroethane	71-55-6	8260B	ND		14	5.4	ug/kg	3
1,1,2-Trichloroethane	79-00-5	8260B	ND		14	5.4	ug/kg	3

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
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W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-004**

Description: **OSB19** Matrix: **Solid**

Date Sampled: **11/05/2019 1200** % Solids: **38.9** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035	8260B	1	11/13/2019 0114	ALR1		35469	4.72

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		14	5.4	ug/kg	3
Trichlorofluoromethane	75-69-4	8260B	ND		14	5.4	ug/kg	3
Vinyl chloride	75-01-4	8260B	ND		14	8.2	ug/kg	3
Xylenes (total)	1330-20-7	8260B	ND		27	11	ug/kg	3

Surrogate	Q	Run 3 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		75	53-142
Bromofluorobenzene		86	47-138
Toluene-d8		106	68-124

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
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P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-004**

Description: **OSB19** Matrix: **Solid**

Date Sampled: **11/05/2019 1200** % Solids: **38.9** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/18/2019 2005	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND		160	61	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		160	39	ug/kg	1
Acetophenone	98-86-2	8270D	ND		810	84	ug/kg	1
Anthracene	120-12-7	8270D	ND		160	31	ug/kg	1
Atrazine	1912-24-9	8270D	ND		810	61	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		810	61	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		160	24	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		160	21	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		160	24	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		160	46	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		160	26	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		810	61	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		810	61	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		810	61	ug/kg	1
Caprolactam	105-60-2	8270D	ND		810	140	ug/kg	1
Carbazole	86-74-8	8270D	ND		810	61	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		810	81	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		810	68	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		810	70	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		810	61	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		810	66	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		810	150	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		810	130	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		810	61	ug/kg	1
Chrysene	218-01-9	8270D	ND		160	38	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		160	36	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		810	61	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		810	120	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		810	80	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		810	61	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		810	61	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		810	130	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		810	120	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		4000	300	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		4000	300	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		1600	150	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		1600	130	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		810	61	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		810	300	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		160	26	ug/kg	1
Fluorene	86-73-7	8270D	ND		160	23	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		810	61	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		810	100	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		4000	300	ug/kg	1

LOQ = Limit of Quantitation
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W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: **SC DHEC** Laboratory ID: **UK06058-004**

Description: **OSB19** Matrix: **Solid**

Date Sampled: **11/05/2019 1200** % Solids: **38.9** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/18/2019 2005	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		810	66	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		160	33	ug/kg	1
Isophorone	78-59-1	8270D	ND		810	75	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		160	71	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		810	220	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1600	200	ug/kg	1
Naphthalene	91-20-3	8270D	ND		160	57	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		1600	230	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		1600	220	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		1600	240	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		810	94	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		1600	120	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		4000	1300	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		810	70	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		810	62	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		4000	320	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		160	27	ug/kg	1
Phenol	108-95-2	8270D	ND		810	76	ug/kg	1
Pyrene	129-00-0	8270D	ND		160	34	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		810	61	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		810	61	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		37	24-137
2-Fluorophenol		27	16-136
Nitrobenzene-d5		25	12-144
Phenol-d5		26	26-148
Terphenyl-d14		79	20-127
2,4,6-Tribromophenol		65	27-128

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
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PCBs by GC

Client: **SC DHEC** Laboratory ID: **UK06058-004**

Description: **OSB19** Matrix: **Solid**

Date Sampled: **11/05/2019 1200** % Solids: **38.9** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	11/15/2019 1800	CHG	11/14/2019 2108	35771

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		24	6.6	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		24	5.6	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		24	5.1	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		24	3.7	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		24	9.9	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		24	6.1	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		24	5.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		83	41-132
Tetrachloro-m-xylene		86	35-106

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Organochlorine Pesticides by GC

Client: **SC DHEC** Laboratory ID: **UK06058-004**

Description: **OSB19** Matrix: **Solid**

Date Sampled: **11/05/2019 1200** % Solids: **38.9** **11/07/2019 0048**

Date Received: **11/06/2019**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	20	11/15/2019 1825	DAL1	11/14/2019 2108	35772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND		48	6.2	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		48	9.6	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		48	5.8	ug/kg	1
beta-BHC	319-85-7	8081B	ND		48	12	ug/kg	1
delta-BHC	319-86-8	8081B	ND		48	10	ug/kg	1
Chlordane	57-74-9	8081B	ND		96	44	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		48	11	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		48	6.7	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		48	8.7	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		48	6.7	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		48	7.2	ug/kg	1
Dieldrin	60-57-1	8081B	ND		48	6.7	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		48	9.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		48	12	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		48	10	ug/kg	1
Endrin	72-20-8	8081B	ND		48	11	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		48	6.7	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		48	7.7	ug/kg	1
Heptachlor	76-44-8	8081B	ND		48	6.7	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		48	7.7	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		190	9.1	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		480	170	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		77	57-110
Tetrachloro-m-xylene		78	39-116

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ35292-001
Batch: 35292
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035 High

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	1000	200	ug/kg	11/11/2019 2208
Benzene	ND		1	250	100	ug/kg	11/11/2019 2208
Bromodichloromethane	ND		1	250	100	ug/kg	11/11/2019 2208
Bromoform	ND		1	250	100	ug/kg	11/11/2019 2208
Bromomethane (Methyl bromide)	ND		1	250	100	ug/kg	11/11/2019 2208
2-Butanone (MEK)	ND		1	1000	200	ug/kg	11/11/2019 2208
Carbon disulfide	ND		1	250	100	ug/kg	11/11/2019 2208
Carbon tetrachloride	ND		1	250	100	ug/kg	11/11/2019 2208
Chlorobenzene	ND		1	250	100	ug/kg	11/11/2019 2208
Chloroethane	ND		1	250	100	ug/kg	11/11/2019 2208
Chloroform	ND		1	250	100	ug/kg	11/11/2019 2208
Chloromethane (Methyl chloride)	ND		1	250	100	ug/kg	11/11/2019 2208
Cyclohexane	ND		1	250	100	ug/kg	11/11/2019 2208
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	250	100	ug/kg	11/11/2019 2208
Dibromochloromethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,2-Dibromoethane (EDB)	ND		1	250	100	ug/kg	11/11/2019 2208
1,2-Dichlorobenzene	ND		1	250	100	ug/kg	11/11/2019 2208
1,3-Dichlorobenzene	ND		1	250	100	ug/kg	11/11/2019 2208
1,4-Dichlorobenzene	ND		1	250	100	ug/kg	11/11/2019 2208
Dichlorodifluoromethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,1-Dichloroethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,2-Dichloroethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,1-Dichloroethene	ND		1	250	100	ug/kg	11/11/2019 2208
cis-1,2-Dichloroethene	ND		1	250	100	ug/kg	11/11/2019 2208
trans-1,2-Dichloroethene	ND		1	250	100	ug/kg	11/11/2019 2208
1,2-Dichloropropane	ND		1	250	100	ug/kg	11/11/2019 2208
cis-1,3-Dichloropropene	ND		1	250	100	ug/kg	11/11/2019 2208
trans-1,3-Dichloropropene	ND		1	250	100	ug/kg	11/11/2019 2208
Ethylbenzene	ND		1	250	100	ug/kg	11/11/2019 2208
2-Hexanone	ND		1	500	200	ug/kg	11/11/2019 2208
Isopropylbenzene	ND		1	250	100	ug/kg	11/11/2019 2208
Methyl acetate	ND		1	250	100	ug/kg	11/11/2019 2208
Methyl tertiary butyl ether (MTBE)	ND		1	250	100	ug/kg	11/11/2019 2208
4-Methyl-2-pentanone	ND		1	500	200	ug/kg	11/11/2019 2208
Methylcyclohexane	ND		1	250	100	ug/kg	11/11/2019 2208
Methylene chloride	ND		1	250	100	ug/kg	11/11/2019 2208
Styrene	ND		1	250	100	ug/kg	11/11/2019 2208
1,1,2,2-Tetrachloroethane	ND		1	250	100	ug/kg	11/11/2019 2208
Tetrachloroethene	ND		1	250	100	ug/kg	11/11/2019 2208
Toluene	ND		1	250	100	ug/kg	11/11/2019 2208
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,2,4-Trichlorobenzene	ND		1	250	100	ug/kg	11/11/2019 2208
1,1,1-Trichloroethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,1,2-Trichloroethane	ND		1	250	100	ug/kg	11/11/2019 2208

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ35292-001
Batch: 35292
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035 High

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	250	100	ug/kg	11/11/2019 2208
Trichlorofluoromethane	ND		1	250	100	ug/kg	11/11/2019 2208
Vinyl chloride	ND		1	250	100	ug/kg	11/11/2019 2208
Xylenes (total)	ND		1	500	200	ug/kg	11/11/2019 2208

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		86	53-142
Bromofluorobenzene		90	47-138
Toluene-d8		91	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ35292-002
Batch: 35292
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035 High

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	5000	5600		1	113	60-140	11/11/2019 2247
Benzene	2500	2400		1	98	70-130	11/11/2019 2247
Bromodichloromethane	2500	2400		1	95	70-130	11/11/2019 2247
Bromoform	2500	2300		1	91	70-130	11/11/2019 2247
Bromomethane (Methyl bromide)	2500	1600	N	1	64	70-130	11/11/2019 2247
2-Butanone (MEK)	5000	4800		1	96	60-140	11/11/2019 2247
Carbon disulfide	2500	2200		1	90	70-130	11/11/2019 2247
Carbon tetrachloride	2500	2400		1	97	70-130	11/11/2019 2247
Chlorobenzene	2500	2600		1	104	70-130	11/11/2019 2247
Chloroethane	2500	2300		1	90	70-130	11/11/2019 2247
Chloroform	2500	2400		1	96	70-130	11/11/2019 2247
Chloromethane (Methyl chloride)	2500	1800		1	74	60-140	11/11/2019 2247
Cyclohexane	2500	2500		1	99	70-130	11/11/2019 2247
1,2-Dibromo-3-chloropropane (DBCP)	2500	2200		1	89	70-130	11/11/2019 2247
Dibromochloromethane	2500	2400		1	96	70-130	11/11/2019 2247
1,2-Dibromoethane (EDB)	2500	2400		1	94	70-130	11/11/2019 2247
1,2-Dichlorobenzene	2500	2700		1	107	70-130	11/11/2019 2247
1,3-Dichlorobenzene	2500	2800		1	112	70-130	11/11/2019 2247
1,4-Dichlorobenzene	2500	2700		1	109	70-130	11/11/2019 2247
Dichlorodifluoromethane	2500	1500		1	60	60-140	11/11/2019 2247
1,1-Dichloroethane	2500	2400		1	94	70-130	11/11/2019 2247
1,2-Dichloroethane	2500	2300		1	91	70-130	11/11/2019 2247
1,1-Dichloroethene	2500	2800		1	111	70-130	11/11/2019 2247
cis-1,2-Dichloroethene	2500	2400		1	94	70-130	11/11/2019 2247
trans-1,2-Dichloroethene	2500	2600		1	105	70-130	11/11/2019 2247
1,2-Dichloropropane	2500	2400		1	95	70-130	11/11/2019 2247
cis-1,3-Dichloropropene	2500	2500		1	99	70-130	11/11/2019 2247
trans-1,3-Dichloropropene	2500	2500		1	101	70-130	11/11/2019 2247
Ethylbenzene	2500	2700		1	108	70-130	11/11/2019 2247
2-Hexanone	5000	4500		1	90	70-130	11/11/2019 2247
Isopropylbenzene	2500	2700		1	108	70-130	11/11/2019 2247
Methyl acetate	2500	2000		1	80	70-130	11/11/2019 2247
Methyl tertiary butyl ether (MTBE)	2500	2100		1	86	70-130	11/11/2019 2247
4-Methyl-2-pentanone	5000	3800		1	77	70-130	11/11/2019 2247
Methylcyclohexane	2500	2800		1	114	70-130	11/11/2019 2247
Methylene chloride	2500	2000		1	80	70-130	11/11/2019 2247
Styrene	2500	2500		1	102	70-130	11/11/2019 2247
1,1,2,2-Tetrachloroethane	2500	2400		1	95	70-130	11/11/2019 2247
Tetrachloroethene	2500	2900		1	115	70-130	11/11/2019 2247
Toluene	2500	2600		1	105	70-130	11/11/2019 2247
1,1,2-Trichloro-1,2,2-Trifluoroethane	2500	2500		1	102	70-130	11/11/2019 2247
1,2,4-Trichlorobenzene	2500	2700		1	106	70-130	11/11/2019 2247
1,1,1-Trichloroethane	2500	2400		1	95	70-130	11/11/2019 2247
1,1,2-Trichloroethane	2500	2300		1	93	70-130	11/11/2019 2247

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ35292-002
Batch: 35292
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035 High

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	2500	2500		1	101	70-130	11/11/2019 2247
Trichlorofluoromethane	2500	2400		1	94	70-130	11/11/2019 2247
Vinyl chloride	2500	2000		1	79	70-130	11/11/2019 2247
Xylenes (total)	5000	5300		1	106	70-130	11/11/2019 2247

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		86	53-142
Bromofluorobenzene		94	47-138
Toluene-d8		96	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
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Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ35469-001
Batch: 35469
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	8.0	ug/kg	11/12/2019 2111
Benzene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Bromodichloromethane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Bromoform	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Bromomethane (Methyl bromide)	ND		1	5.0	3.0	ug/kg	11/12/2019 2111
2-Butanone (MEK)	ND		1	20	4.0	ug/kg	11/12/2019 2111
Carbon disulfide	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Carbon tetrachloride	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Chlorobenzene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Chloroethane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Chloroform	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Chloromethane (Methyl chloride)	ND		1	5.0	3.0	ug/kg	11/12/2019 2111
Cyclohexane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Dibromochloromethane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,2-Dibromoethane (EDB)	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,2-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,3-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,4-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Dichlorodifluoromethane	ND		1	5.0	3.0	ug/kg	11/12/2019 2111
1,1-Dichloroethane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,2-Dichloroethane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,1-Dichloroethene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
cis-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
trans-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,2-Dichloropropane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
cis-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
trans-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Ethylbenzene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
2-Hexanone	ND		1	10	4.0	ug/kg	11/12/2019 2111
Isopropylbenzene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Methyl acetate	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
4-Methyl-2-pentanone	ND		1	10	4.0	ug/kg	11/12/2019 2111
Methylcyclohexane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Methylene chloride	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Styrene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,1,2,2-Tetrachloroethane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Tetrachloroethene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Toluene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,2,4-Trichlorobenzene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,1,1-Trichloroethane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
1,1,2-Trichloroethane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ35469-001
Batch: 35469
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Trichlorofluoromethane	ND		1	5.0	2.0	ug/kg	11/12/2019 2111
Vinyl chloride	ND		1	5.0	3.0	ug/kg	11/12/2019 2111
Xylenes (total)	ND		1	10	4.0	ug/kg	11/12/2019 2111

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		84	53-142
Bromofluorobenzene		100	47-138
Toluene-d8		98	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ35469-002
Batch: 35469
Analytical Method: 8260B
Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	120		1	119	60-140	11/12/2019 2008
Benzene	50	48		1	96	70-130	11/12/2019 2008
Bromodichloromethane	50	48		1	96	70-130	11/12/2019 2008
Bromoform	50	48		1	96	70-130	11/12/2019 2008
Bromomethane (Methyl bromide)	50	49		1	97	70-130	11/12/2019 2008
2-Butanone (MEK)	100	100		1	100	60-140	11/12/2019 2008
Carbon disulfide	50	46		1	92	70-130	11/12/2019 2008
Carbon tetrachloride	50	48		1	97	70-130	11/12/2019 2008
Chlorobenzene	50	49		1	99	70-130	11/12/2019 2008
Chloroethane	50	50		1	100	70-130	11/12/2019 2008
Chloroform	50	48		1	96	70-130	11/12/2019 2008
Chloromethane (Methyl chloride)	50	41		1	81	60-140	11/12/2019 2008
Cyclohexane	50	47		1	94	70-130	11/12/2019 2008
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	92	70-130	11/12/2019 2008
Dibromochloromethane	50	48		1	97	70-130	11/12/2019 2008
1,2-Dibromoethane (EDB)	50	47		1	94	70-130	11/12/2019 2008
1,2-Dichlorobenzene	50	50		1	100	70-130	11/12/2019 2008
1,3-Dichlorobenzene	50	51		1	101	70-130	11/12/2019 2008
1,4-Dichlorobenzene	50	50		1	101	70-130	11/12/2019 2008
Dichlorodifluoromethane	50	39		1	77	60-140	11/12/2019 2008
1,1-Dichloroethane	50	46		1	92	70-130	11/12/2019 2008
1,2-Dichloroethane	50	45		1	90	70-130	11/12/2019 2008
1,1-Dichloroethene	50	55		1	111	70-130	11/12/2019 2008
cis-1,2-Dichloroethene	50	47		1	94	70-130	11/12/2019 2008
trans-1,2-Dichloroethene	50	51		1	103	70-130	11/12/2019 2008
1,2-Dichloropropane	50	47		1	93	70-130	11/12/2019 2008
cis-1,3-Dichloropropene	50	50		1	99	70-130	11/12/2019 2008
trans-1,3-Dichloropropene	50	50		1	99	70-130	11/12/2019 2008
Ethylbenzene	50	50		1	101	70-130	11/12/2019 2008
2-Hexanone	100	94		1	94	70-130	11/12/2019 2008
Isopropylbenzene	50	51		1	101	70-130	11/12/2019 2008
Methyl acetate	50	41		1	83	70-130	11/12/2019 2008
Methyl tertiary butyl ether (MTBE)	50	44		1	88	70-130	11/12/2019 2008
4-Methyl-2-pentanone	100	82		1	82	70-130	11/12/2019 2008
Methylcyclohexane	50	52		1	104	70-130	11/12/2019 2008
Methylene chloride	50	41		1	82	70-130	11/12/2019 2008
Styrene	50	49		1	97	70-130	11/12/2019 2008
1,1,2,2-Tetrachloroethane	50	46		1	92	70-130	11/12/2019 2008
Tetrachloroethene	50	53		1	107	70-130	11/12/2019 2008
Toluene	50	49		1	98	70-130	11/12/2019 2008
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	49		1	99	70-130	11/12/2019 2008
1,2,4-Trichlorobenzene	50	53		1	105	70-130	11/12/2019 2008
1,1,1-Trichloroethane	50	46		1	93	70-130	11/12/2019 2008
1,1,2-Trichloroethane	50	46		1	92	70-130	11/12/2019 2008

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ35469-002
Batch: 35469
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	50		1	99	70-130	11/12/2019 2008
Trichlorofluoromethane	50	49		1	99	70-130	11/12/2019 2008
Vinyl chloride	50	42		1	83	70-130	11/12/2019 2008
Xylenes (total)	100	100		1	101	70-130	11/12/2019 2008

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		86	53-142
Bromofluorobenzene		103	47-138
Toluene-d8		101	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
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N = Recovery is out of criteria
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Volatile Organic Compounds by GC/MS - LCSD

Sample ID: UQ35469-003
Batch: 35469
Analytical Method: 8260B
Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	120		1	118	1.2	60-140	20	11/12/2019 2031
Benzene	50	46		1	93	3.4	70-130	20	11/12/2019 2031
Bromodichloromethane	50	47		1	93	2.8	70-130	20	11/12/2019 2031
Bromoform	50	47		1	94	1.5	70-130	20	11/12/2019 2031
Bromomethane (Methyl bromide)	50	47		1	93	4.1	70-130	20	11/12/2019 2031
2-Butanone (MEK)	100	100		1	101	0.48	60-140	20	11/12/2019 2031
Carbon disulfide	50	44		1	87	5.5	70-130	20	11/12/2019 2031
Carbon tetrachloride	50	47		1	94	3.0	70-130	20	11/12/2019 2031
Chlorobenzene	50	49		1	98	0.64	70-130	20	11/12/2019 2031
Chloroethane	50	50		1	99	1.2	70-130	20	11/12/2019 2031
Chloroform	50	47		1	94	1.8	70-130	20	11/12/2019 2031
Chloromethane (Methyl chloride)	50	39		1	77	4.7	60-140	20	11/12/2019 2031
Cyclohexane	50	45		1	91	3.4	70-130	20	11/12/2019 2031
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	93	0.88	70-130	20	11/12/2019 2031
Dibromochloromethane	50	48		1	97	0.033	70-130	20	11/12/2019 2031
1,2-Dibromoethane (EDB)	50	47		1	94	0.25	70-130	20	11/12/2019 2031
1,2-Dichlorobenzene	50	50		1	100	0.13	70-130	20	11/12/2019 2031
1,3-Dichlorobenzene	50	50		1	101	0.43	70-130	20	11/12/2019 2031
1,4-Dichlorobenzene	50	50		1	99	1.1	70-130	20	11/12/2019 2031
Dichlorodifluoromethane	50	38		1	76	1.5	60-140	20	11/12/2019 2031
1,1-Dichloroethane	50	45		1	90	1.7	70-130	20	11/12/2019 2031
1,2-Dichloroethane	50	45		1	91	1.1	70-130	20	11/12/2019 2031
1,1-Dichloroethene	50	54		1	108	2.7	70-130	20	11/12/2019 2031
cis-1,2-Dichloroethene	50	46		1	93	1.4	70-130	20	11/12/2019 2031
trans-1,2-Dichloroethene	50	51		1	101	1.3	70-130	20	11/12/2019 2031
1,2-Dichloropropane	50	46		1	92	1.2	70-130	20	11/12/2019 2031
cis-1,3-Dichloropropene	50	49		1	98	1.2	70-130	20	11/12/2019 2031
trans-1,3-Dichloropropene	50	49		1	98	0.84	70-130	20	11/12/2019 2031
Ethylbenzene	50	49		1	98	3.1	70-130	20	11/12/2019 2031
2-Hexanone	100	91		1	91	3.0	70-130	20	11/12/2019 2031
Isopropylbenzene	50	49		1	98	3.2	70-130	20	11/12/2019 2031
Methyl acetate	50	41		1	82	1.5	70-130	20	11/12/2019 2031
Methyl tertiary butyl ether (MTBE)	50	44		1	88	0.10	70-130	20	11/12/2019 2031
4-Methyl-2-pentanone	100	79		1	79	3.3	70-130	20	11/12/2019 2031
Methylcyclohexane	50	50		1	100	3.4	70-130	20	11/12/2019 2031
Methylene chloride	50	40		1	81	2.3	70-130	20	11/12/2019 2031
Styrene	50	48		1	95	2.4	70-130	20	11/12/2019 2031
1,1,2,2-Tetrachloroethane	50	46		1	93	1.1	70-130	20	11/12/2019 2031
Tetrachloroethene	50	51		1	102	4.1	70-130	20	11/12/2019 2031
Toluene	50	49		1	98	0.28	70-130	20	11/12/2019 2031
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	48		1	96	2.3	70-130	20	11/12/2019 2031
1,2,4-Trichlorobenzene	50	51		1	102	3.4	70-130	20	11/12/2019 2031
1,1,1-Trichloroethane	50	47		1	93	0.78	70-130	20	11/12/2019 2031
1,1,2-Trichloroethane	50	46		1	91	0.79	70-130	20	11/12/2019 2031

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Volatile Organic Compounds by GC/MS - LCSD

Sample ID: UQ35469-003
Batch: 35469
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	49		1	97	2.1	70-130	20	11/12/2019 2031
Trichlorofluoromethane	50	48		1	96	2.5	70-130	20	11/12/2019 2031
Vinyl chloride	50	41		1	82	2.0	70-130	20	11/12/2019 2031
Xylenes (total)	100	98		1	98	2.4	70-130	20	11/12/2019 2031

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		83	53-142
Bromofluorobenzene		99	47-138
Toluene-d8		98	68-124

LOQ = Limit of Quantitation
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P = The RPD between two GC columns exceeds 40%
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Semivolatile Organic Compounds by GC/MS - MB

Sample ID: UQ36000-001
Batch: 36000
Analytical Method: 8270D
Matrix: Solid
Prep Method: 3546
Prep Date: 11/17/2019 1819

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acenaphthene	ND		1	13	5.0	ug/kg	11/19/2019 1902
Acenaphthylene	ND		1	13	3.2	ug/kg	11/19/2019 1902
Acetophenone	ND		1	67	6.9	ug/kg	11/19/2019 1902
Anthracene	ND		1	13	2.6	ug/kg	11/19/2019 1902
Atrazine	ND		1	67	5.0	ug/kg	11/19/2019 1902
Benzaldehyde	ND		1	67	5.0	ug/kg	11/19/2019 1902
Benzo(a)anthracene	ND		1	13	2.0	ug/kg	11/19/2019 1902
Benzo(a)pyrene	ND		1	13	1.7	ug/kg	11/19/2019 1902
Benzo(b)fluoranthene	ND		1	13	1.9	ug/kg	11/19/2019 1902
Benzo(g,h,i)perylene	ND		1	13	3.8	ug/kg	11/19/2019 1902
Benzo(k)fluoranthene	ND		1	13	2.1	ug/kg	11/19/2019 1902
1,1'-Biphenyl	ND		1	67	5.0	ug/kg	11/19/2019 1902
4-Bromophenyl phenyl ether	ND		1	67	5.0	ug/kg	11/19/2019 1902
Butyl benzyl phthalate	ND		1	67	5.0	ug/kg	11/19/2019 1902
Caprolactam	ND		1	67	12	ug/kg	11/19/2019 1902
Carbazole	ND		1	67	5.0	ug/kg	11/19/2019 1902
bis (2-Chloro-1-methylethyl) ether	ND		1	67	6.7	ug/kg	11/19/2019 1902
4-Chloro-3-methyl phenol	ND		1	67	5.6	ug/kg	11/19/2019 1902
4-Chloroaniline	ND		1	67	5.8	ug/kg	11/19/2019 1902
bis(2-Chloroethoxy)methane	ND		1	67	5.0	ug/kg	11/19/2019 1902
bis(2-Chloroethyl)ether	ND		1	67	5.5	ug/kg	11/19/2019 1902
2-Chloronaphthalene	ND		1	67	13	ug/kg	11/19/2019 1902
2-Chlorophenol	ND		1	67	11	ug/kg	11/19/2019 1902
4-Chlorophenyl phenyl ether	ND		1	67	5.0	ug/kg	11/19/2019 1902
Chrysene	ND		1	13	3.1	ug/kg	11/19/2019 1902
Dibenzo(a,h)anthracene	ND		1	13	3.0	ug/kg	11/19/2019 1902
Dibenzofuran	ND		1	67	5.0	ug/kg	11/19/2019 1902
3,3'-Dichlorobenzidine	ND		1	67	10	ug/kg	11/19/2019 1902
2,4-Dichlorophenol	ND		1	67	6.6	ug/kg	11/19/2019 1902
Diethylphthalate	ND		1	67	5.0	ug/kg	11/19/2019 1902
Dimethyl phthalate	ND		1	67	5.0	ug/kg	11/19/2019 1902
2,4-Dimethylphenol	ND		1	67	11	ug/kg	11/19/2019 1902
Di-n-butyl phthalate	ND		1	67	9.8	ug/kg	11/19/2019 1902
4,6-Dinitro-2-methylphenol	ND		1	330	25	ug/kg	11/19/2019 1902
2,4-Dinitrophenol	ND		1	330	25	ug/kg	11/19/2019 1902
2,4-Dinitrotoluene	ND		1	130	12	ug/kg	11/19/2019 1902
2,6-Dinitrotoluene	ND		1	130	11	ug/kg	11/19/2019 1902
Di-n-octylphthalate	ND		1	67	5.0	ug/kg	11/19/2019 1902
bis(2-Ethylhexyl)phthalate	ND		1	67	25	ug/kg	11/19/2019 1902
Fluoranthene	ND		1	13	2.2	ug/kg	11/19/2019 1902
Fluorene	ND		1	13	1.9	ug/kg	11/19/2019 1902
Hexachlorobenzene	ND		1	67	5.0	ug/kg	11/19/2019 1902
Hexachlorobutadiene	ND		1	67	8.5	ug/kg	11/19/2019 1902
Hexachlorocyclopentadiene	ND		1	330	25	ug/kg	11/19/2019 1902

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Semivolatile Organic Compounds by GC/MS - MB

Sample ID: UQ36000-001
Batch: 36000
Analytical Method: 8270D
Matrix: Solid
Prep Method: 3546
Prep Date: 11/17/2019 1819

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Hexachloroethane	ND		1	67	5.5	ug/kg	11/19/2019 1902
Indeno(1,2,3-c,d)pyrene	ND		1	13	2.7	ug/kg	11/19/2019 1902
Isophorone	ND		1	67	6.2	ug/kg	11/19/2019 1902
2-Methylnaphthalene	ND		1	13	5.9	ug/kg	11/19/2019 1902
2-Methylphenol	ND		1	67	18	ug/kg	11/19/2019 1902
3+4-Methylphenol	ND		1	130	17	ug/kg	11/19/2019 1902
Naphthalene	ND		1	13	4.7	ug/kg	11/19/2019 1902
2-Nitroaniline	ND		1	130	19	ug/kg	11/19/2019 1902
3-Nitroaniline	ND		1	130	18	ug/kg	11/19/2019 1902
4-Nitroaniline	ND		1	130	20	ug/kg	11/19/2019 1902
Nitrobenzene	ND		1	67	7.8	ug/kg	11/19/2019 1902
2-Nitrophenol	ND		1	130	10	ug/kg	11/19/2019 1902
4-Nitrophenol	ND		1	330	100	ug/kg	11/19/2019 1902
N-Nitrosodi-n-propylamine	ND		1	67	5.7	ug/kg	11/19/2019 1902
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	67	5.1	ug/kg	11/19/2019 1902
Pentachlorophenol	ND		1	330	27	ug/kg	11/19/2019 1902
Phenanthrene	ND		1	13	2.3	ug/kg	11/19/2019 1902
Phenol	ND		1	67	6.2	ug/kg	11/19/2019 1902
Pyrene	ND		1	13	2.8	ug/kg	11/19/2019 1902
2,4,5-Trichlorophenol	ND		1	67	5.0	ug/kg	11/19/2019 1902
2,4,6-Trichlorophenol	ND		1	67	5.0	ug/kg	11/19/2019 1902

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		61	24-137
2-Fluorophenol		64	16-136
Nitrobenzene-d5		60	12-144
Phenol-d5		70	26-148
Terphenyl-d14		92	20-127
2,4,6-Tribromophenol		68	27-128

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Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: UQ36000-002
Batch: 36000
Analytical Method: 8270D
Matrix: Solid
Prep Method: 3546
Prep Date: 11/17/2019 1819

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	670	430		1	65	46-114	11/19/2019 1928
Acenaphthylene	670	480		1	72	44-122	11/19/2019 1928
Acetophenone	670	430		1	65	48-111	11/19/2019 1928
Anthracene	670	510		1	77	50-119	11/19/2019 1928
Atrazine	670	540		1	81	48-116	11/19/2019 1928
Benzaldehyde	670	350		1	52	10-110	11/19/2019 1928
Benzo(a)anthracene	670	510		1	77	47-121	11/19/2019 1928
Benzo(a)pyrene	670	530		1	80	55-134	11/19/2019 1928
Benzo(b)fluoranthene	670	510		1	76	28-139	11/19/2019 1928
Benzo(g,h,i)perylene	670	520		1	78	36-125	11/19/2019 1928
Benzo(k)fluoranthene	670	500		1	75	47-130	11/19/2019 1928
1,1'-Biphenyl	670	440		1	66	49-110	11/19/2019 1928
4-Bromophenyl phenyl ether	670	480		1	72	46-118	11/19/2019 1928
Butyl benzyl phthalate	670	630		1	94	46-128	11/19/2019 1928
Caprolactam	670	610		1	92	43-121	11/19/2019 1928
Carbazole	670	510		1	77	47-128	11/19/2019 1928
bis (2-Chloro-1-methylethyl) ether	670	460		1	70	31-102	11/19/2019 1928
4-Chloro-3-methyl phenol	670	540		1	80	49-118	11/19/2019 1928
4-Chloroaniline	670	370		1	56	17-106	11/19/2019 1928
bis(2-Chloroethoxy)methane	670	440		1	66	39-108	11/19/2019 1928
bis(2-Chloroethyl)ether	670	510		1	76	32-105	11/19/2019 1928
2-Chloronaphthalene	670	440		1	66	31-127	11/19/2019 1928
2-Chlorophenol	670	490		1	73	37-106	11/19/2019 1928
4-Chlorophenyl phenyl ether	670	490		1	73	47-116	11/19/2019 1928
Chrysene	670	490		1	74	45-126	11/19/2019 1928
Dibenzo(a,h)anthracene	670	550		1	83	45-122	11/19/2019 1928
Dibenzofuran	670	470		1	71	45-112	11/19/2019 1928
3,3'-Dichlorobenzidine	670	460		1	69	10-119	11/19/2019 1928
2,4-Dichlorophenol	670	460		1	70	41-113	11/19/2019 1928
Diethylphthalate	670	510		1	76	49-123	11/19/2019 1928
Dimethyl phthalate	670	500		1	75	48-120	11/19/2019 1928
2,4-Dimethylphenol	670	560		1	84	33-123	11/19/2019 1928
Di-n-butyl phthalate	670	480		1	72	51-129	11/19/2019 1928
4,6-Dinitro-2-methylphenol	670	510		1	76	40-130	11/19/2019 1928
2,4-Dinitrophenol	1300	820		1	61	10-113	11/19/2019 1928
2,4-Dinitrotoluene	670	530		1	79	48-124	11/19/2019 1928
2,6-Dinitrotoluene	670	500		1	75	47-125	11/19/2019 1928
Di-n-octylphthalate	670	530		1	80	49-142	11/19/2019 1928
bis(2-Ethylhexyl)phthalate	670	520		1	79	45-128	11/19/2019 1928
Fluoranthene	670	490		1	74	50-123	11/19/2019 1928
Fluorene	670	490		1	74	48-117	11/19/2019 1928
Hexachlorobenzene	670	510		1	77	44-122	11/19/2019 1928
Hexachlorobutadiene	670	450		1	68	33-103	11/19/2019 1928
Hexachlorocyclopentadiene	3300	1800		1	55	18-121	11/19/2019 1928

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Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: UQ36000-002
Batch: 36000
Analytical Method: 8270D
Matrix: Solid
Prep Method: 3546
Prep Date: 11/17/2019 1819

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachloroethane	670	440		1	66	30-96	11/19/2019 1928
Indeno(1,2,3-c,d)pyrene	670	500		1	75	45-123	11/19/2019 1928
Isophorone	670	500		1	75	41-113	11/19/2019 1928
2-Methylnaphthalene	670	460		1	70	40-106	11/19/2019 1928
2-Methylphenol	670	490		1	74	32-107	11/19/2019 1928
3+4-Methylphenol	670	510		1	76	39-108	11/19/2019 1928
Naphthalene	670	460		1	69	36-110	11/19/2019 1928
2-Nitroaniline	670	570		1	86	45-123	11/19/2019 1928
3-Nitroaniline	670	510		1	77	24-127	11/19/2019 1928
4-Nitroaniline	670	690		1	103	48-127	11/19/2019 1928
Nitrobenzene	670	460		1	69	33-114	11/19/2019 1928
2-Nitrophenol	670	450		1	67	35-108	11/19/2019 1928
4-Nitrophenol	1300	1100		1	83	18-154	11/19/2019 1928
N-Nitrosodi-n-propylamine	670	520		1	78	32-115	11/19/2019 1928
N-Nitrosodiphenylamine (Diphenylamine)	670	490		1	74	53-150	11/19/2019 1928
Pentachlorophenol	1300	980		1	74	27-138	11/19/2019 1928
Phenanthrene	670	490		1	73	49-117	11/19/2019 1928
Phenol	670	510		1	76	36-108	11/19/2019 1928
Pyrene	670	540		1	81	47-119	11/19/2019 1928
2,4,5-Trichlorophenol	670	490		1	74	46-122	11/19/2019 1928
2,4,6-Trichlorophenol	670	490		1	73	38-115	11/19/2019 1928

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		65	24-137
2-Fluorophenol		71	16-136
Nitrobenzene-d5		73	12-144
Phenol-d5		73	26-148
Terphenyl-d14		88	20-127
2,4,6-Tribromophenol		84	27-128

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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PCBs by GC - MB

Sample ID: UQ35771-001
Batch: 35771
Analytical Method: 8082A
Matrix: Solid
Prep Method: 3546
Prep Date: 11/14/2019 2108
Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aroclor 1016	ND		1	10	2.7	ug/kg	11/15/2019 1547
Aroclor 1221	ND		1	10	2.3	ug/kg	11/15/2019 1547
Aroclor 1232	ND		1	10	2.1	ug/kg	11/15/2019 1547
Aroclor 1242	ND		1	10	1.6	ug/kg	11/15/2019 1547
Aroclor 1248	ND		1	10	4.1	ug/kg	11/15/2019 1547
Aroclor 1254	ND		1	10	2.5	ug/kg	11/15/2019 1547
Aroclor 1260	ND		1	10	2.5	ug/kg	11/15/2019 1547

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		112	41-132
Tetrachloro-m-xylene		92	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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PCBs by GC - LCS

Sample ID: UQ35771-002
Batch: 35771
Analytical Method: 8082A
Matrix: Solid
Prep Method: 3546
Prep Date: 11/14/2019 2108
Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	97		1	97	70-130	11/15/2019 1600
Aroclor 1260	100	110		1	112	70-130	11/15/2019 1600

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		117	41-132
Tetrachloro-m-xylene		95	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Organochlorine Pesticides by GC - MB

Sample ID: UQ35772-001
Batch: 35772
Analytical Method: 8081B
Matrix: Solid
Prep Method: 3546
Prep Date: 11/14/2019 2108

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aldrin	ND		1	1.0	0.13	ug/kg	11/15/2019 1537
gamma-BHC (Lindane)	ND		1	1.0	0.20	ug/kg	11/15/2019 1537
alpha-BHC	ND		1	1.0	0.12	ug/kg	11/15/2019 1537
beta-BHC	ND		1	1.0	0.26	ug/kg	11/15/2019 1537
delta-BHC	ND		1	1.0	0.21	ug/kg	11/15/2019 1537
Chlordane	ND		1	2.0	0.92	ug/kg	11/15/2019 1537
cis-Chlordane	ND		1	1.0	0.22	ug/kg	11/15/2019 1537
trans-Chlordane	ND		1	1.0	0.14	ug/kg	11/15/2019 1537
4,4'-DDD	ND		1	1.0	0.18	ug/kg	11/15/2019 1537
4,4'-DDE	ND		1	1.0	0.14	ug/kg	11/15/2019 1537
4,4'-DDT	ND		1	1.0	0.15	ug/kg	11/15/2019 1537
Dieldrin	ND		1	1.0	0.14	ug/kg	11/15/2019 1537
Endosulfan I	ND		1	1.0	0.19	ug/kg	11/15/2019 1537
Endosulfan II	ND		1	1.0	0.26	ug/kg	11/15/2019 1537
Endosulfan sulfate	ND		1	1.0	0.21	ug/kg	11/15/2019 1537
Endrin	ND		1	1.0	0.23	ug/kg	11/15/2019 1537
Endrin aldehyde	ND		1	1.0	0.14	ug/kg	11/15/2019 1537
Endrin ketone	ND		1	1.0	0.16	ug/kg	11/15/2019 1537
Heptachlor	ND		1	1.0	0.14	ug/kg	11/15/2019 1537
Heptachlor epoxide	ND		1	1.0	0.16	ug/kg	11/15/2019 1537
Methoxychlor	ND		1	4.0	0.19	ug/kg	11/15/2019 1537
Toxaphene	ND		1	10	3.6	ug/kg	11/15/2019 1537

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		87	57-110
Tetrachloro-m-xylene		83	39-116

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Organochlorine Pesticides by GC - LCS

Sample ID: UQ35772-002
Batch: 35772
Analytical Method: 8081B
Matrix: Solid
Prep Method: 3546
Prep Date: 11/14/2019 2108

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	20	18		1	90	70-130	11/15/2019 1552
gamma-BHC (Lindane)	20	20		1	99	70-130	11/15/2019 1552
alpha-BHC	20	20		1	98	70-130	11/15/2019 1552
beta-BHC	20	19		1	94	70-130	11/15/2019 1552
delta-BHC	20	22		1	109	50-150	11/15/2019 1552
cis-Chlordane	20	17		1	86	70-130	11/15/2019 1552
trans-Chlordane	20	19		1	93	70-130	11/15/2019 1552
4,4'-DDD	20	18		1	90	70-130	11/15/2019 1552
4,4'-DDE	20	19		1	95	70-130	11/15/2019 1552
4,4'-DDT	20	20		1	100	70-130	11/15/2019 1552
Dieldrin	20	20		1	98	70-130	11/15/2019 1552
Endosulfan I	20	18		1	91	70-130	11/15/2019 1552
Endosulfan II	20	19		1	94	70-130	11/15/2019 1552
Endosulfan sulfate	20	21		1	107	70-130	11/15/2019 1552
Endrin	20	19		1	96	70-130	11/15/2019 1552
Endrin aldehyde	20	20		1	102	70-130	11/15/2019 1552
Endrin ketone	20	24		1	119	70-130	11/15/2019 1552
Heptachlor	20	18		1	88	70-130	11/15/2019 1552
Heptachlor epoxide	20	20		1	99	70-130	11/15/2019 1552
Methoxychlor	20	21		1	107	70-130	11/15/2019 1552

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		91	57-110
Tetrachloro-m-xylene		84	39-116

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL
N = Recovery is out of criteria
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Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
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Chain of Custody
and
Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

SHEALY

Chain of Custody Record

Number

Client: SCDHEC	Report to Contact: David Chestnut	Telephone No. / E-mail: chestnde@dhec.sc.gov / 803-898-4066	Quote No.
Address: 2600 Bull Street	Sampler's Signature: David Chestnut	Analysis (Attach list if more space is needed)	Page ___ of ___
City: Columbia / State: SC / Zip Code: 29201	Printed Name: David Chestnut		
Project Name: Okatee River			

UK06058

KMN2

Project Number	P.O No. 4600734318			Matrix			No of Containers by Preservative Type										Remarks / Cooler I.D.
Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Aqueous	Solid	Non-Aqueous	Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit		VOC	SVOC/Pest/PCB		
OSB8	11/5/19	0910	G		X		1					1		X	X		
OSB9	11/5/19	1010	G		X		1					1		X	X		
OSB12	11/5/19	1105	G		X		1					1		X	X		
OSB19	11/5/19	~~1200~~ 1158 1208	G		X		1					1		X	X		
		DC 11/5/19	G		X		1					1		X	X		
			G		X		1					1		X	X		
			G		X		1					1		X	X		
			G		X		1					1		X	X		
			G		X		1					1		X	X		

Turn Around Time Required (Prior lab approval required for expedited TAT)
[X] Standard [ ] Rush (Please Specify)

Sample Disposal
[ ] Return to Client [ ] Disposal by Lab

Possible Hazard Identification (List any known hazards in the remarks)
[ ] Non-hazardous [ ] Flammable [ ] Skin Irritant [ ] SDS provided [ ] Unknown

QC Requirements

1. Relinquished by: David Chestnut	Date: 11/5/2019	Time: 1620	1. Received by:	Date: 11/06/19	Time: 1625
2. Relinquished by:	Date: 11/06/19	Time: 1143	2. Received by:	Date:	Time:
3. Relinquished by:	Date:	Time:	3. Received by:	Date:	Time:
4. Relinquished by:	Date:	Time:	4. Laboratory Received by: L Hite	Date: 11/06/19	Time: 1143

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 1.7 °C tb ✓

Document Number: ME002OW.07

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-14

Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: SCDHEC Cooler Inspected by/date: DMN / 11/06/19 Lot #: UK06058

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other: _____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 19-1616

1.7 /1.7 °C NA /NA °C NA /NA °C NA /NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # NA

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H_2SO_4, HNO_3, HCl, NaOH using SR # NA

Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA _____ were received with bubbles >6 mm in diameter.

Samples(s) NA _____ were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA

SR barcode labels applied by: DMN Date: 11/06/19

Comments:

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

SC DHEC
2600 Bull Street
Columbia, SC 29201
Attention: David Chestnut

Project Name: Able Contracting - Okatee River

Lot Number:**UK06060**

Date Completed:11/20/2019

11/20/2019 1:14 PM
Approved and released by:
Project Manager: Kelly M. Nance

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
SC DHEC
Lot Number: UK06060

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" qualifier

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Volatiles
The laboratory control sample (LCS) associated with batch 35292 had bromomethane (methyl bromide) recovered marginally outside of the acceptance limits. Due to the large number of analytes in the LCS, there is a high statistical probability of a few analytes outside of control limits. Per SW-846 Update V 8000D- 23 Revision 4 July 2014, a number of analytes should be allowed to marginally fail the limits without requirement for corrective action. The laboratory's SOP allows for 10% of analytes to recover marginally outside criteria.

Semivolatiles
Samples -001, -002, -003, -004, and -005 were diluted 5X due to the sample matrix. The reporting limits have been raised accordingly. Sample -0001 had one surrogate recovered outside of the acceptance limits. No corrective action was required, as dilutions of 5X and greater impact recovery accuracy.

Pesticides
Samples -001, -002, and -005 were diluted 20X due to the sample matrix. The reporting limits have been raised accordingly.

Sample Summary

SC DHEC

Lot Number: UK06060

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	OSB2	Solid	11/05/2019 1011	11/06/2019
002	OS4	Solid	11/05/2019 0906	11/06/2019
003	OSB14	Solid	11/05/2019 1103	11/06/2019
004	OS1	Solid	11/05/2019 1142	11/06/2019
005	OS18	Solid	11/05/2019 1215	11/06/2019

(5 samples)

Detection Summary

SC DHEC

Lot Number: UK06060

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	OSB2	Solid	Methyl acetate	8260B	3200		ug/kg	6
002	OS4	Solid	Methyl acetate	8260B	3000		ug/kg	12
003	OSB14	Solid	Methyl acetate	8260B	2700		ug/kg	18
003	OSB14	Solid	gamma-BHC (Lindane)	8081B	1.7	JP	ug/kg	23
003	OSB14	Solid	beta-BHC	8081B	0.82	JP	ug/kg	23
003	OSB14	Solid	cis-Chlordane	8081B	0.58	JP	ug/kg	23
004	OS1	Solid	Methyl acetate	8260B	5900		ug/kg	24
004	OS1	Solid	gamma-BHC (Lindane)	8081B	2.3	JP	ug/kg	29
004	OS1	Solid	cis-Chlordane	8081B	2.3	JP	ug/kg	29
004	OS1	Solid	4,4'-DDD	8081B	0.60	JP	ug/kg	29
004	OS1	Solid	Heptachlor epoxide	8081B	1.4	JP	ug/kg	29
005	OS18	Solid	Methyl acetate	8260B	2000		ug/kg	30

(12 detections)

Volatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OSB2
Date Sampled: 11/05/2019 1011
Date Received: 11/06/2019

Laboratory ID: UK06060-001
Matrix: Solid
% Solids: 33.3 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0215	ALR1		35292	3.41

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		6400	1300	ug/kg	2
Benzene	71-43-2	8260B	ND		1600	640	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		1600	640	ug/kg	2
Bromoform	75-25-2	8260B	ND		1600	640	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		1600	640	ug/kg	2
2-Butanone (MEK)	78-93-3	8260B	ND		6400	1300	ug/kg	2
Carbon disulfide	75-15-0	8260B	ND		1600	640	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		1600	640	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		1600	640	ug/kg	2
Chloroethane	75-00-3	8260B	ND		1600	640	ug/kg	2
Chloroform	67-66-3	8260B	ND		1600	640	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1600	640	ug/kg	2
Cyclohexane	110-82-7	8260B	ND		1600	640	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1600	640	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		1600	640	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1600	640	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1600	640	ug/kg	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1600	640	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1600	640	ug/kg	2
Dichlorodifluoromethane	75-71-8	8260B	ND		1600	640	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		1600	640	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		1600	640	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		1600	640	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1600	640	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1600	640	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		1600	640	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1600	640	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1600	640	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		1600	640	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		3200	1300	ug/kg	2
Isopropylbenzene	98-82-8	8260B	ND		1600	640	ug/kg	2
Methyl acetate	79-20-9	8260B	3200		1600	640	ug/kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1600	640	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		3200	1300	ug/kg	2
Methylcyclohexane	108-87-2	8260B	ND		1600	640	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		1600	640	ug/kg	2
Styrene	100-42-5	8260B	ND		1600	640	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1600	640	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		1600	640	ug/kg	2
Toluene	108-88-3	8260B	ND		1600	640	ug/kg	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		1600	640	ug/kg	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1600	640	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1600	640	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1600	640	ug/kg	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK06060-001
Description: OSB2
Matrix: Solid
Date Sampled: 11/05/2019 1011
% Solids: 33.3 11/07/2019 0048
Date Received: 11/06/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0215	ALR1		35292	3.41

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		1600	640	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		1600	640	ug/kg	2
Vinyl chloride	75-01-4	8260B	ND		1600	640	ug/kg	2
Xylenes (total)	1330-20-7	8260B	ND		3200	1300	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	53-142
Bromofluorobenzene		86	47-138
Toluene-d8		88	68-124

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK06060-001
Description: OSB2
Matrix: Solid
Date Sampled: 11/05/2019 1011
% Solids: 33.3 11/07/2019 0048
Date Received: 11/06/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/19/2019 1411	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND		190	74	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		190	47	ug/kg	1
Acetophenone	98-86-2	8270D	ND		980	100	ug/kg	1
Anthracene	120-12-7	8270D	ND		190	38	ug/kg	1
Atrazine	1912-24-9	8270D	ND		980	74	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		980	73	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		190	29	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		190	25	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		190	28	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		190	55	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		190	31	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		980	73	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		980	73	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		980	73	ug/kg	1
Caprolactam	105-60-2	8270D	ND		980	170	ug/kg	1
Carbazole	86-74-8	8270D	ND		980	73	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		980	98	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		980	82	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		980	85	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		980	73	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		980	80	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		980	180	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		980	160	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		980	73	ug/kg	1
Chrysene	218-01-9	8270D	ND		190	45	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		190	44	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		980	74	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		980	150	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		980	96	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		980	73	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		980	73	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		980	160	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		980	140	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		4800	370	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		4800	370	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		1900	180	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		1900	160	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		980	73	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		980	370	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		190	31	ug/kg	1
Fluorene	86-73-7	8270D	ND		190	28	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		980	73	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		980	120	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		4800	370	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OSB2
Date Sampled: 11/05/2019 1011
Date Received: 11/06/2019

Laboratory ID: UK06060-001
Matrix: Solid
% Solids: 33.3 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/19/2019 1411	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		980	80	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		190	40	ug/kg	1
Isophorone	78-59-1	8270D	ND		980	91	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		190	86	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		980	260	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1900	240	ug/kg	1
Naphthalene	91-20-3	8270D	ND		190	68	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		1900	270	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		1900	270	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		1900	290	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		980	110	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		1900	150	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		4800	1500	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		980	84	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		980	74	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		4800	390	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		190	33	ug/kg	1
Phenol	108-95-2	8270D	ND		980	91	ug/kg	1
Pyrene	129-00-0	8270D	ND		190	42	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		980	73	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		980	73	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		36	24-137
2-Fluorophenol		31	16-136
Nitrobenzene-d5		25	12-144
Phenol-d5	N	22	26-148
Terphenyl-d14		68	20-127
2,4,6-Tribromophenol		66	27-128

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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PCBs by GC

Client: SC DHEC
Description: OSB2
Date Sampled: 11/05/2019 1011
Date Received: 11/06/2019

Laboratory ID: UK06060-001
Matrix: Solid
% Solids: 33.3 11/07/2019 0048

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	11/15/2019 1813	CHG	11/14/2019 2108	35771

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		30	8.2	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		30	7.0	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		30	6.4	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		30	4.7	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		30	12	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		30	7.6	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		30	7.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		88	41-132
Tetrachloro-m-xylene		84	35-106

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Organochlorine Pesticides by GC

Client: SC DHEC
Description: OSB2
Date Sampled: 11/05/2019 1011
Date Received: 11/06/2019

Laboratory ID: UK06060-001
Matrix: Solid
% Solids: 33.3 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	20	11/15/2019 1840	DAL1	11/14/2019 2108	35772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND		60	7.8	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		60	12	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		60	7.2	ug/kg	1
beta-BHC	319-85-7	8081B	ND		60	16	ug/kg	1
delta-BHC	319-86-8	8081B	ND		60	13	ug/kg	1
Chlordane	57-74-9	8081B	ND		120	55	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		60	13	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		60	8.4	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		60	11	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		60	8.4	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		60	9.0	ug/kg	1
Dieldrin	60-57-1	8081B	ND		60	8.4	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		60	11	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		60	16	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		60	13	ug/kg	1
Endrin	72-20-8	8081B	ND		60	14	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		60	8.4	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		60	9.6	ug/kg	1
Heptachlor	76-44-8	8081B	ND		60	8.4	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		60	9.6	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		240	11	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		600	210	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		81	57-110
Tetrachloro-m-xylene		77	39-116

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK06060-002
Description: OS4
Matrix: Solid
Date Sampled: 11/05/2019 0906
% Solids: 42.6 11/07/2019 0048
Date Received: 11/06/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0237	ALR1		35292	3.07

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		5200	1000	ug/kg	2
Benzene	71-43-2	8260B	ND		1300	520	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		1300	520	ug/kg	2
Bromoform	75-25-2	8260B	ND		1300	520	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		1300	520	ug/kg	2
2-Butanone (MEK)	78-93-3	8260B	ND		5200	1000	ug/kg	2
Carbon disulfide	75-15-0	8260B	ND		1300	520	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		1300	520	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		1300	520	ug/kg	2
Chloroethane	75-00-3	8260B	ND		1300	520	ug/kg	2
Chloroform	67-66-3	8260B	ND		1300	520	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1300	520	ug/kg	2
Cyclohexane	110-82-7	8260B	ND		1300	520	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1300	520	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		1300	520	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1300	520	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1300	520	ug/kg	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1300	520	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1300	520	ug/kg	2
Dichlorodifluoromethane	75-71-8	8260B	ND		1300	520	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		1300	520	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		1300	520	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		1300	520	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1300	520	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1300	520	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		1300	520	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1300	520	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1300	520	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		1300	520	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		2600	1000	ug/kg	2
Isopropylbenzene	98-82-8	8260B	ND		1300	520	ug/kg	2
Methyl acetate	79-20-9	8260B	3000		1300	520	ug/kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1300	520	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		2600	1000	ug/kg	2
Methylcyclohexane	108-87-2	8260B	ND		1300	520	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		1300	520	ug/kg	2
Styrene	100-42-5	8260B	ND		1300	520	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1300	520	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		1300	520	ug/kg	2
Toluene	108-88-3	8260B	ND		1300	520	ug/kg	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		1300	520	ug/kg	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1300	520	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1300	520	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1300	520	ug/kg	2

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK06060-002
Description: OS4
Matrix: Solid
Date Sampled: 11/05/2019 0906
% Solids: 42.6 11/07/2019 0048
Date Received: 11/06/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0237	ALR1		35292	3.07

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		1300	520	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		1300	520	ug/kg	2
Vinyl chloride	75-01-4	8260B	ND		1300	520	ug/kg	2
Xylenes (total)	1330-20-7	8260B	ND		2600	1000	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		81	53-142
Bromofluorobenzene		83	47-138
Toluene-d8		83	68-124

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK06060-002
Description: OS4
Matrix: Solid
Date Sampled: 11/05/2019 0906
% Solids: 42.6 11/07/2019 0048
Date Received: 11/06/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/19/2019 1630	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND		150	57	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		150	36	ug/kg	1
Acetophenone	98-86-2	8270D	ND		750	78	ug/kg	1
Anthracene	120-12-7	8270D	ND		150	29	ug/kg	1
Atrazine	1912-24-9	8270D	ND		750	56	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		750	56	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		150	22	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		150	19	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		150	22	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		150	42	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		150	24	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		750	56	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		750	56	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		750	56	ug/kg	1
Caprolactam	105-60-2	8270D	ND		750	130	ug/kg	1
Carbazole	86-74-8	8270D	ND		750	56	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		750	75	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		750	63	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		750	65	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		750	56	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		750	61	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		750	140	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		750	120	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		750	56	ug/kg	1
Chrysene	218-01-9	8270D	ND		150	35	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		150	34	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		750	57	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		750	110	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		750	74	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		750	56	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		750	56	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		750	120	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		750	110	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		3700	280	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		3700	280	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		1500	140	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		1500	120	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		750	56	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		750	280	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		150	24	ug/kg	1
Fluorene	86-73-7	8270D	ND		150	22	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		750	56	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		750	95	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		3700	280	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK06060-002
Description: OS4
Matrix: Solid
Date Sampled: 11/05/2019 0906
% Solids: 42.6 11/07/2019 0048
Date Received: 11/06/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/19/2019 1630	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		750	61	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		150	30	ug/kg	1
Isophorone	78-59-1	8270D	ND		750	70	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		150	66	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		750	200	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1500	190	ug/kg	1
Naphthalene	91-20-3	8270D	ND		150	52	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		1500	210	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		1500	210	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		1500	220	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		750	87	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		1500	110	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		3700	1200	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		750	64	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		750	57	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		3700	300	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		150	25	ug/kg	1
Phenol	108-95-2	8270D	ND		750	70	ug/kg	1
Pyrene	129-00-0	8270D	ND		150	32	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		750	56	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		750	56	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		51	24-137
2-Fluorophenol		42	16-136
Nitrobenzene-d5		34	12-144
Phenol-d5		38	26-148
Terphenyl-d14		65	20-127
2,4,6-Tribromophenol		57	27-128

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
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P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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PCBs by GC

Client: SC DHEC
Description: OS4
Date Sampled: 11/05/2019 0906
Date Received: 11/06/2019

Laboratory ID: UK06060-002
Matrix: Solid
% Solids: 42.6 11/07/2019 0048

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	11/15/2019 1827	CHG	11/14/2019 2108	35771

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		22	6.0	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		22	5.1	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		22	4.7	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		22	3.4	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		22	9.0	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		22	5.5	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		22	5.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		69	41-132
Tetrachloro-m-xylene		76	35-106

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Organochlorine Pesticides by GC

Client: SC DHEC
Description: OS4
Date Sampled: 11/05/2019 0906
Date Received: 11/06/2019

Laboratory ID: UK06060-002
Matrix: Solid
% Solids: 42.6 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	20	11/15/2019 1855	DAL1	11/14/2019 2108	35772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND		44	5.7	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		44	8.8	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		44	5.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		44	11	ug/kg	1
delta-BHC	319-86-8	8081B	ND		44	9.2	ug/kg	1
Chlordane	57-74-9	8081B	ND		88	40	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		44	9.7	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		44	6.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		44	7.9	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		44	6.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		44	6.6	ug/kg	1
Dieldrin	60-57-1	8081B	ND		44	6.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		44	8.3	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		44	11	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		44	9.2	ug/kg	1
Endrin	72-20-8	8081B	ND		44	10	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		44	6.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		44	7.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		44	6.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		44	7.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		180	8.3	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		440	160	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		63	57-110
Tetrachloro-m-xylene		72	39-116

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OSB14
Date Sampled: 11/05/2019 1103
Date Received: 11/06/2019

Laboratory ID: UK06060-003
Matrix: Solid
% Solids: 37.2 11/08/2019 0049

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0300	ALR1		35292	3.84

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		5200	1000	ug/kg	2
Benzene	71-43-2	8260B	ND		1300	520	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		1300	520	ug/kg	2
Bromoform	75-25-2	8260B	ND		1300	520	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		1300	520	ug/kg	2
2-Butanone (MEK)	78-93-3	8260B	ND		5200	1000	ug/kg	2
Carbon disulfide	75-15-0	8260B	ND		1300	520	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		1300	520	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		1300	520	ug/kg	2
Chloroethane	75-00-3	8260B	ND		1300	520	ug/kg	2
Chloroform	67-66-3	8260B	ND		1300	520	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1300	520	ug/kg	2
Cyclohexane	110-82-7	8260B	ND		1300	520	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1300	520	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		1300	520	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1300	520	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1300	520	ug/kg	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1300	520	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1300	520	ug/kg	2
Dichlorodifluoromethane	75-71-8	8260B	ND		1300	520	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		1300	520	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		1300	520	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		1300	520	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1300	520	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1300	520	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		1300	520	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1300	520	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1300	520	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		1300	520	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		2600	1000	ug/kg	2
Isopropylbenzene	98-82-8	8260B	ND		1300	520	ug/kg	2
Methyl acetate	79-20-9	8260B	2700		1300	520	ug/kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1300	520	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		2600	1000	ug/kg	2
Methylcyclohexane	108-87-2	8260B	ND		1300	520	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		1300	520	ug/kg	2
Styrene	100-42-5	8260B	ND		1300	520	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1300	520	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		1300	520	ug/kg	2
Toluene	108-88-3	8260B	ND		1300	520	ug/kg	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		1300	520	ug/kg	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1300	520	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1300	520	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1300	520	ug/kg	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OSB14
Date Sampled: 11/05/2019 1103
Date Received: 11/06/2019

Laboratory ID: UK06060-003
Matrix: Solid
% Solids: 37.2 11/08/2019 0049

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0300	ALR1		35292	3.84

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		1300	520	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		1300	520	ug/kg	2
Vinyl chloride	75-01-4	8260B	ND		1300	520	ug/kg	2
Xylenes (total)	1330-20-7	8260B	ND		2600	1000	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	53-142
Bromofluorobenzene		102	47-138
Toluene-d8		101	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK06060-003
Description: OSB14
Matrix: Solid
Date Sampled: 11/05/2019 1103
% Solids: 37.2 11/08/2019 0049
Date Received: 11/06/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/19/2019 1654	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND		170	67	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		170	42	ug/kg	1
Acetophenone	98-86-2	8270D	ND		890	92	ug/kg	1
Anthracene	120-12-7	8270D	ND		170	34	ug/kg	1
Atrazine	1912-24-9	8270D	ND		890	67	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		890	66	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		170	26	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		170	23	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		170	26	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		170	50	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		170	28	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		890	66	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		890	66	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		890	66	ug/kg	1
Caprolactam	105-60-2	8270D	ND		890	160	ug/kg	1
Carbazole	86-74-8	8270D	ND		890	66	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		890	89	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		890	74	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		890	77	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		890	66	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		890	72	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		890	170	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		890	140	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		890	66	ug/kg	1
Chrysene	218-01-9	8270D	ND		170	41	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		170	40	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		890	67	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		890	130	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		890	87	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		890	66	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		890	66	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		890	140	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		890	130	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		4400	330	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		4400	330	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		1700	160	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		1700	140	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		890	66	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		890	330	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		170	28	ug/kg	1
Fluorene	86-73-7	8270D	ND		170	26	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		890	66	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		890	110	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		4400	330	ug/kg	1

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E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OSB14
Date Sampled: 11/05/2019 1103
Date Received: 11/06/2019

Laboratory ID: UK06060-003
Matrix: Solid
% Solids: 37.2 11/08/2019 0049

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/19/2019 1654	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		890	72	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		170	36	ug/kg	1
Isophorone	78-59-1	8270D	ND		890	82	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		170	78	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		890	240	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1700	220	ug/kg	1
Naphthalene	91-20-3	8270D	ND		170	62	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		1700	250	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		1700	240	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		1700	270	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		890	100	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		1700	130	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		4400	1400	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		890	76	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		890	67	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		4400	350	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		170	30	ug/kg	1
Phenol	108-95-2	8270D	ND		890	83	ug/kg	1
Pyrene	129-00-0	8270D	ND		170	38	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		890	66	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		890	66	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		51	24-137
2-Fluorophenol		45	16-136
Nitrobenzene-d5		43	12-144
Phenol-d5		35	26-148
Terphenyl-d14		66	20-127
2,4,6-Tribromophenol		56	27-128

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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PCBs by GC

Client: SC DHEC
Description: OSB14
Date Sampled: 11/05/2019 1103
Date Received: 11/06/2019

Laboratory ID: UK06060-003
Matrix: Solid
% Solids: 37.2 11/08/2019 0049

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	11/15/2019 1840	CHG	11/14/2019 2108	35771

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		26	7.0	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		26	5.9	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		26	5.4	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		26	4.0	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		26	11	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		26	6.4	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		26	6.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		80	41-132
Tetrachloro-m-xylene		76	35-106

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Organochlorine Pesticides by GC

Client: SC DHEC
Description: OSB14
Date Sampled: 11/05/2019 1103
Date Received: 11/06/2019

Laboratory ID: UK06060-003
Matrix: Solid
% Solids: 37.2 11/08/2019 0049

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	11/15/2019 1910	DAL1	11/14/2019 2108	35772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND		2.6	0.33	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	1.7	JP	2.6	0.51	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		2.6	0.31	ug/kg	1
beta-BHC	319-85-7	8081B	0.82	JP	2.6	0.66	ug/kg	1
delta-BHC	319-86-8	8081B	ND		2.6	0.54	ug/kg	1
Chlordane	57-74-9	8081B	ND		5.1	2.4	ug/kg	1
cis-Chlordane	5103-71-9	8081B	0.58	JP	2.6	0.56	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		2.6	0.36	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		2.6	0.46	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		2.6	0.36	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		2.6	0.38	ug/kg	1
Dieldrin	60-57-1	8081B	ND		2.6	0.36	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		2.6	0.49	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		2.6	0.66	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		2.6	0.54	ug/kg	1
Endrin	72-20-8	8081B	ND		2.6	0.59	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		2.6	0.36	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		2.6	0.41	ug/kg	1
Heptachlor	76-44-8	8081B	ND		2.6	0.36	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		2.6	0.41	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		10	0.49	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		26	9.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		64	57-110
Tetrachloro-m-xylene		68	39-116

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OS1
Date Sampled: 11/05/2019 1142
Date Received: 11/06/2019

Laboratory ID: UK06060-004
Matrix: Solid
% Solids: 32.0 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0322	ALR1		35292	3.64

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		6400	1300	ug/kg	2
Benzene	71-43-2	8260B	ND		1600	640	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		1600	640	ug/kg	2
Bromoform	75-25-2	8260B	ND		1600	640	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		1600	640	ug/kg	2
2-Butanone (MEK)	78-93-3	8260B	ND		6400	1300	ug/kg	2
Carbon disulfide	75-15-0	8260B	ND		1600	640	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		1600	640	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		1600	640	ug/kg	2
Chloroethane	75-00-3	8260B	ND		1600	640	ug/kg	2
Chloroform	67-66-3	8260B	ND		1600	640	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1600	640	ug/kg	2
Cyclohexane	110-82-7	8260B	ND		1600	640	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1600	640	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		1600	640	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1600	640	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1600	640	ug/kg	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1600	640	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1600	640	ug/kg	2
Dichlorodifluoromethane	75-71-8	8260B	ND		1600	640	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		1600	640	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		1600	640	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		1600	640	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1600	640	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1600	640	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		1600	640	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1600	640	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1600	640	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		1600	640	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		3200	1300	ug/kg	2
Isopropylbenzene	98-82-8	8260B	ND		1600	640	ug/kg	2
Methyl acetate	79-20-9	8260B	5900		1600	640	ug/kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1600	640	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		3200	1300	ug/kg	2
Methylcyclohexane	108-87-2	8260B	ND		1600	640	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		1600	640	ug/kg	2
Styrene	100-42-5	8260B	ND		1600	640	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1600	640	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		1600	640	ug/kg	2
Toluene	108-88-3	8260B	ND		1600	640	ug/kg	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		1600	640	ug/kg	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1600	640	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1600	640	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1600	640	ug/kg	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OS1
Date Sampled: 11/05/2019 1142
Date Received: 11/06/2019

Laboratory ID: UK06060-004
Matrix: Solid
% Solids: 32.0 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0322	ALR1		35292	3.64

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		1600	640	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		1600	640	ug/kg	2
Vinyl chloride	75-01-4	8260B	ND		1600	640	ug/kg	2
Xylenes (total)	1330-20-7	8260B	ND		3200	1300	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	53-142
Bromofluorobenzene		107	47-138
Toluene-d8		108	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK06060-004
Description: OS1
Matrix: Solid
Date Sampled: 11/05/2019 1142
% Solids: 32.0 11/07/2019 0048
Date Received: 11/06/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/19/2019 1717	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND		190	75	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		190	48	ug/kg	1
Acetophenone	98-86-2	8270D	ND		1000	100	ug/kg	1
Anthracene	120-12-7	8270D	ND		190	38	ug/kg	1
Atrazine	1912-24-9	8270D	ND		1000	75	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1000	75	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		190	30	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		190	26	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		190	29	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		190	56	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		190	32	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		1000	75	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1000	75	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		1000	75	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1000	180	ug/kg	1
Carbazole	86-74-8	8270D	ND		1000	75	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		1000	100	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1000	84	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		1000	86	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1000	75	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		1000	81	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		1000	190	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		1000	160	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1000	75	ug/kg	1
Chrysene	218-01-9	8270D	ND		190	46	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		190	45	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		1000	75	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1000	150	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1000	98	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		1000	75	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		1000	75	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1000	160	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		1000	150	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		4900	370	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		4900	370	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		1900	180	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		1900	160	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		1000	75	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		1000	370	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		190	32	ug/kg	1
Fluorene	86-73-7	8270D	ND		190	29	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		1000	75	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		1000	130	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		4900	370	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OS1
Date Sampled: 11/05/2019 1142
Date Received: 11/06/2019

Laboratory ID: UK06060-004
Matrix: Solid
% Solids: 32.0 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/19/2019 1717	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		1000	81	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		190	40	ug/kg	1
Isophorone	78-59-1	8270D	ND		1000	93	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		190	87	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		1000	260	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1900	250	ug/kg	1
Naphthalene	91-20-3	8270D	ND		190	70	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		1900	280	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		1900	270	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		1900	300	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		1000	120	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		1900	150	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		4900	1500	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1000	85	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1000	76	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		4900	400	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		190	34	ug/kg	1
Phenol	108-95-2	8270D	ND		1000	93	ug/kg	1
Pyrene	129-00-0	8270D	ND		190	42	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1000	75	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1000	75	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		65	24-137
2-Fluorophenol		55	16-136
Nitrobenzene-d5		50	12-144
Phenol-d5		50	26-148
Terphenyl-d14		81	20-127
2,4,6-Tribromophenol		69	27-128

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
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PCBs by GC

Client: SC DHEC
Description: OS1
Date Sampled: 11/05/2019 1142
Date Received: 11/06/2019

Laboratory ID: UK06060-004
Matrix: Solid
% Solids: 32.0 11/07/2019 0048

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	11/15/2019 1854	CHG	11/14/2019 2108	35771

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		31	8.4	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		31	7.1	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		31	6.5	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		31	4.8	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		31	13	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		31	7.7	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		31	7.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		75	41-132
Tetrachloro-m-xylene		76	35-106

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Organochlorine Pesticides by GC

Client: SC DHEC
Description: OS1
Date Sampled: 11/05/2019 1142
Date Received: 11/06/2019

Laboratory ID: UK06060-004
Matrix: Solid
% Solids: 32.0 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	11/15/2019 1925	DAL1	11/14/2019 2108	35772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND		3.1	0.40	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	2.3	JP	3.1	0.61	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		3.1	0.37	ug/kg	1
beta-BHC	319-85-7	8081B	ND		3.1	0.80	ug/kg	1
delta-BHC	319-86-8	8081B	ND		3.1	0.64	ug/kg	1
Chlordane	57-74-9	8081B	ND		6.1	2.8	ug/kg	1
cis-Chlordane	5103-71-9	8081B	2.3	JP	3.1	0.67	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		3.1	0.43	ug/kg	1
4,4'-DDD	72-54-8	8081B	0.60	JP	3.1	0.55	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		3.1	0.43	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		3.1	0.46	ug/kg	1
Dieldrin	60-57-1	8081B	ND		3.1	0.43	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		3.1	0.58	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		3.1	0.80	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		3.1	0.64	ug/kg	1
Endrin	72-20-8	8081B	ND		3.1	0.70	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		3.1	0.43	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		3.1	0.49	ug/kg	1
Heptachlor	76-44-8	8081B	ND		3.1	0.43	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	1.4	JP	3.1	0.49	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		12	0.58	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		31	11	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		57	57-110
Tetrachloro-m-xylene		71	39-116

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OS18
Date Sampled: 11/05/2019 1215
Date Received: 11/06/2019

Laboratory ID: UK06060-005
Matrix: Solid
% Solids: 36.3 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0345	ALR1		35292	3.67

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260B	ND		5500	1100	ug/kg	2
Benzene	71-43-2	8260B	ND		1400	550	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		1400	550	ug/kg	2
Bromoform	75-25-2	8260B	ND		1400	550	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		1400	550	ug/kg	2
2-Butanone (MEK)	78-93-3	8260B	ND		5500	1100	ug/kg	2
Carbon disulfide	75-15-0	8260B	ND		1400	550	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		1400	550	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		1400	550	ug/kg	2
Chloroethane	75-00-3	8260B	ND		1400	550	ug/kg	2
Chloroform	67-66-3	8260B	ND		1400	550	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1400	550	ug/kg	2
Cyclohexane	110-82-7	8260B	ND		1400	550	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1400	550	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		1400	550	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1400	550	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1400	550	ug/kg	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1400	550	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1400	550	ug/kg	2
Dichlorodifluoromethane	75-71-8	8260B	ND		1400	550	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		1400	550	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		1400	550	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		1400	550	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1400	550	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1400	550	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		1400	550	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1400	550	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1400	550	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		1400	550	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		2800	1100	ug/kg	2
Isopropylbenzene	98-82-8	8260B	ND		1400	550	ug/kg	2
Methyl acetate	79-20-9	8260B	2000		1400	550	ug/kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1400	550	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		2800	1100	ug/kg	2
Methylcyclohexane	108-87-2	8260B	ND		1400	550	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		1400	550	ug/kg	2
Styrene	100-42-5	8260B	ND		1400	550	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1400	550	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		1400	550	ug/kg	2
Toluene	108-88-3	8260B	ND		1400	550	ug/kg	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		1400	550	ug/kg	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1400	550	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1400	550	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1400	550	ug/kg	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Volatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OS18
Date Sampled: 11/05/2019 1215
Date Received: 11/06/2019

Laboratory ID: UK06060-005
Matrix: Solid
% Solids: 36.3 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260B	1	11/12/2019 0345	ALR1		35292	3.67

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Trichloroethene	79-01-6	8260B	ND		1400	550	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		1400	550	ug/kg	2
Vinyl chloride	75-01-4	8260B	ND		1400	550	ug/kg	2
Xylenes (total)	1330-20-7	8260B	ND		2800	1100	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	53-142
Bromofluorobenzene		89	47-138
Toluene-d8		90	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK06060-005
Description: OS18
Matrix: Solid
Date Sampled: 11/05/2019 1215
% Solids: 36.3 11/07/2019 0048
Date Received: 11/06/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/19/2019 1804	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND		170	67	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		170	43	ug/kg	1
Acetophenone	98-86-2	8270D	ND		890	93	ug/kg	1
Anthracene	120-12-7	8270D	ND		170	34	ug/kg	1
Atrazine	1912-24-9	8270D	ND		890	67	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		890	67	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		170	26	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		170	23	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		170	26	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		170	50	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		170	28	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		890	67	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		890	67	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		890	67	ug/kg	1
Caprolactam	105-60-2	8270D	ND		890	160	ug/kg	1
Carbazole	86-74-8	8270D	ND		890	67	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		890	89	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		890	75	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		890	77	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		890	67	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		890	73	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		890	170	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		890	140	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		890	67	ug/kg	1
Chrysene	218-01-9	8270D	ND		170	41	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		170	40	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		890	67	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		890	130	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		890	88	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		890	67	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		890	67	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		890	140	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		890	130	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		4400	330	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		4400	330	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		1700	160	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		1700	140	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		890	67	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		890	330	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		170	29	ug/kg	1
Fluorene	86-73-7	8270D	ND		170	26	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		890	67	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		890	110	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		4400	330	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Description: OS18
Date Sampled: 11/05/2019 1215
Date Received: 11/06/2019

Laboratory ID: UK06060-005
Matrix: Solid
% Solids: 36.3 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8270D	5	11/19/2019 1804	JCG	11/17/2019 1819	36000

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		890	73	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		170	36	ug/kg	1
Isophorone	78-59-1	8270D	ND		890	83	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		170	78	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		890	240	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1700	220	ug/kg	1
Naphthalene	91-20-3	8270D	ND		170	62	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		1700	250	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		1700	240	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		1700	270	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		890	100	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		1700	130	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		4400	1400	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		890	76	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		890	68	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		4400	360	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		170	30	ug/kg	1
Phenol	108-95-2	8270D	ND		890	83	ug/kg	1
Pyrene	129-00-0	8270D	ND		170	38	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		890	67	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		890	67	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		35	24-137
2-Fluorophenol		35	16-136
Nitrobenzene-d5		31	12-144
Phenol-d5		27	26-148
Terphenyl-d14		47	20-127
2,4,6-Tribromophenol		39	27-128

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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PCBs by GC

Client: SC DHEC
Description: OS18
Date Sampled: 11/05/2019 1215
Date Received: 11/06/2019

Laboratory ID: UK06060-005
Matrix: Solid
% Solids: 36.3 11/07/2019 0048

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	11/15/2019 1907	CHG	11/14/2019 2108	35771

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		26	7.2	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		26	6.1	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		26	5.6	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		26	4.1	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		26	11	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		26	6.6	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		26	6.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		92	41-132
Tetrachloro-m-xylene		83	35-106

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Organochlorine Pesticides by GC

Client: SC DHEC
Description: OS18
Date Sampled: 11/05/2019 1215
Date Received: 11/06/2019

Laboratory ID: UK06060-005
Matrix: Solid
% Solids: 36.3 11/07/2019 0048

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	20	11/15/2019 1940	DAL1	11/14/2019 2108	35772

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND		53	6.8	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		53	11	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		53	6.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		53	14	ug/kg	1
delta-BHC	319-86-8	8081B	ND		53	11	ug/kg	1
Chlordane	57-74-9	8081B	ND		110	48	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		53	12	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		53	7.4	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		53	9.5	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		53	7.4	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		53	7.9	ug/kg	1
Dieldrin	60-57-1	8081B	ND		53	7.4	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		53	10	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		53	14	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		53	11	ug/kg	1
Endrin	72-20-8	8081B	ND		53	12	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		53	7.4	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		53	8.4	ug/kg	1
Heptachlor	76-44-8	8081B	ND		53	7.4	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		53	8.4	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		210	10	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		530	190	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		81	57-110
Tetrachloro-m-xylene		76	39-116

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ35292-001
Batch: 35292
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035 High

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	1000	200	ug/kg	11/11/2019 2208
Benzene	ND		1	250	100	ug/kg	11/11/2019 2208
Bromodichloromethane	ND		1	250	100	ug/kg	11/11/2019 2208
Bromoform	ND		1	250	100	ug/kg	11/11/2019 2208
Bromomethane (Methyl bromide)	ND		1	250	100	ug/kg	11/11/2019 2208
2-Butanone (MEK)	ND		1	1000	200	ug/kg	11/11/2019 2208
Carbon disulfide	ND		1	250	100	ug/kg	11/11/2019 2208
Carbon tetrachloride	ND		1	250	100	ug/kg	11/11/2019 2208
Chlorobenzene	ND		1	250	100	ug/kg	11/11/2019 2208
Chloroethane	ND		1	250	100	ug/kg	11/11/2019 2208
Chloroform	ND		1	250	100	ug/kg	11/11/2019 2208
Chloromethane (Methyl chloride)	ND		1	250	100	ug/kg	11/11/2019 2208
Cyclohexane	ND		1	250	100	ug/kg	11/11/2019 2208
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	250	100	ug/kg	11/11/2019 2208
Dibromochloromethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,2-Dibromoethane (EDB)	ND		1	250	100	ug/kg	11/11/2019 2208
1,2-Dichlorobenzene	ND		1	250	100	ug/kg	11/11/2019 2208
1,3-Dichlorobenzene	ND		1	250	100	ug/kg	11/11/2019 2208
1,4-Dichlorobenzene	ND		1	250	100	ug/kg	11/11/2019 2208
Dichlorodifluoromethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,1-Dichloroethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,2-Dichloroethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,1-Dichloroethene	ND		1	250	100	ug/kg	11/11/2019 2208
cis-1,2-Dichloroethene	ND		1	250	100	ug/kg	11/11/2019 2208
trans-1,2-Dichloroethene	ND		1	250	100	ug/kg	11/11/2019 2208
1,2-Dichloropropane	ND		1	250	100	ug/kg	11/11/2019 2208
cis-1,3-Dichloropropene	ND		1	250	100	ug/kg	11/11/2019 2208
trans-1,3-Dichloropropene	ND		1	250	100	ug/kg	11/11/2019 2208
Ethylbenzene	ND		1	250	100	ug/kg	11/11/2019 2208
2-Hexanone	ND		1	500	200	ug/kg	11/11/2019 2208
Isopropylbenzene	ND		1	250	100	ug/kg	11/11/2019 2208
Methyl acetate	ND		1	250	100	ug/kg	11/11/2019 2208
Methyl tertiary butyl ether (MTBE)	ND		1	250	100	ug/kg	11/11/2019 2208
4-Methyl-2-pentanone	ND		1	500	200	ug/kg	11/11/2019 2208
Methylcyclohexane	ND		1	250	100	ug/kg	11/11/2019 2208
Methylene chloride	ND		1	250	100	ug/kg	11/11/2019 2208
Styrene	ND		1	250	100	ug/kg	11/11/2019 2208
1,1,2,2-Tetrachloroethane	ND		1	250	100	ug/kg	11/11/2019 2208
Tetrachloroethene	ND		1	250	100	ug/kg	11/11/2019 2208
Toluene	ND		1	250	100	ug/kg	11/11/2019 2208
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,2,4-Trichlorobenzene	ND		1	250	100	ug/kg	11/11/2019 2208
1,1,1-Trichloroethane	ND		1	250	100	ug/kg	11/11/2019 2208
1,1,2-Trichloroethane	ND		1	250	100	ug/kg	11/11/2019 2208

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ35292-001
Batch: 35292
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035 High

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	250	100	ug/kg	11/11/2019 2208
Trichlorofluoromethane	ND		1	250	100	ug/kg	11/11/2019 2208
Vinyl chloride	ND		1	250	100	ug/kg	11/11/2019 2208
Xylenes (total)	ND		1	500	200	ug/kg	11/11/2019 2208

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		86	53-142
Bromofluorobenzene		90	47-138
Toluene-d8		91	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ35292-002
Batch: 35292
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035 High

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	5000	5600		1	113	60-140	11/11/2019 2247
Benzene	2500	2400		1	98	70-130	11/11/2019 2247
Bromodichloromethane	2500	2400		1	95	70-130	11/11/2019 2247
Bromoform	2500	2300		1	91	70-130	11/11/2019 2247
Bromomethane (Methyl bromide)	2500	1600	N	1	64	70-130	11/11/2019 2247
2-Butanone (MEK)	5000	4800		1	96	60-140	11/11/2019 2247
Carbon disulfide	2500	2200		1	90	70-130	11/11/2019 2247
Carbon tetrachloride	2500	2400		1	97	70-130	11/11/2019 2247
Chlorobenzene	2500	2600		1	104	70-130	11/11/2019 2247
Chloroethane	2500	2300		1	90	70-130	11/11/2019 2247
Chloroform	2500	2400		1	96	70-130	11/11/2019 2247
Chloromethane (Methyl chloride)	2500	1800		1	74	60-140	11/11/2019 2247
Cyclohexane	2500	2500		1	99	70-130	11/11/2019 2247
1,2-Dibromo-3-chloropropane (DBCP)	2500	2200		1	89	70-130	11/11/2019 2247
Dibromochloromethane	2500	2400		1	96	70-130	11/11/2019 2247
1,2-Dibromoethane (EDB)	2500	2400		1	94	70-130	11/11/2019 2247
1,2-Dichlorobenzene	2500	2700		1	107	70-130	11/11/2019 2247
1,3-Dichlorobenzene	2500	2800		1	112	70-130	11/11/2019 2247
1,4-Dichlorobenzene	2500	2700		1	109	70-130	11/11/2019 2247
Dichlorodifluoromethane	2500	1500		1	60	60-140	11/11/2019 2247
1,1-Dichloroethane	2500	2400		1	94	70-130	11/11/2019 2247
1,2-Dichloroethane	2500	2300		1	91	70-130	11/11/2019 2247
1,1-Dichloroethene	2500	2800		1	111	70-130	11/11/2019 2247
cis-1,2-Dichloroethene	2500	2400		1	94	70-130	11/11/2019 2247
trans-1,2-Dichloroethene	2500	2600		1	105	70-130	11/11/2019 2247
1,2-Dichloropropane	2500	2400		1	95	70-130	11/11/2019 2247
cis-1,3-Dichloropropene	2500	2500		1	99	70-130	11/11/2019 2247
trans-1,3-Dichloropropene	2500	2500		1	101	70-130	11/11/2019 2247
Ethylbenzene	2500	2700		1	108	70-130	11/11/2019 2247
2-Hexanone	5000	4500		1	90	70-130	11/11/2019 2247
Isopropylbenzene	2500	2700		1	108	70-130	11/11/2019 2247
Methyl acetate	2500	2000		1	80	70-130	11/11/2019 2247
Methyl tertiary butyl ether (MTBE)	2500	2100		1	86	70-130	11/11/2019 2247
4-Methyl-2-pentanone	5000	3800		1	77	70-130	11/11/2019 2247
Methylcyclohexane	2500	2800		1	114	70-130	11/11/2019 2247
Methylene chloride	2500	2000		1	80	70-130	11/11/2019 2247
Styrene	2500	2500		1	102	70-130	11/11/2019 2247
1,1,2,2-Tetrachloroethane	2500	2400		1	95	70-130	11/11/2019 2247
Tetrachloroethene	2500	2900		1	115	70-130	11/11/2019 2247
Toluene	2500	2600		1	105	70-130	11/11/2019 2247
1,1,2-Trichloro-1,2,2-Trifluoroethane	2500	2500		1	102	70-130	11/11/2019 2247
1,2,4-Trichlorobenzene	2500	2700		1	106	70-130	11/11/2019 2247
1,1,1-Trichloroethane	2500	2400		1	95	70-130	11/11/2019 2247
1,1,2-Trichloroethane	2500	2300		1	93	70-130	11/11/2019 2247

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ35292-002
Batch: 35292
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035 High

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	2500	2500		1	101	70-130	11/11/2019 2247
Trichlorofluoromethane	2500	2400		1	94	70-130	11/11/2019 2247
Vinyl chloride	2500	2000		1	79	70-130	11/11/2019 2247
Xylenes (total)	5000	5300		1	106	70-130	11/11/2019 2247

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		86	53-142
Bromofluorobenzene		94	47-138
Toluene-d8		96	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Semivolatile Organic Compounds by GC/MS - MB

Sample ID: UQ36000-001
Batch: 36000
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3546
Prep Date: 11/17/2019 1819

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acenaphthene	ND		1	13	5.0	ug/kg	11/18/2019 1046
Acenaphthylene	ND		1	13	3.2	ug/kg	11/18/2019 1046
Acetophenone	ND		1	67	6.9	ug/kg	11/18/2019 1046
Anthracene	ND		1	13	2.6	ug/kg	11/18/2019 1046
Atrazine	ND		1	67	5.0	ug/kg	11/18/2019 1046
Benzaldehyde	ND		1	67	5.0	ug/kg	11/18/2019 1046
Benzo(a)anthracene	ND		1	13	2.0	ug/kg	11/18/2019 1046
Benzo(a)pyrene	ND		1	13	1.7	ug/kg	11/18/2019 1046
Benzo(b)fluoranthene	ND		1	13	1.9	ug/kg	11/18/2019 1046
Benzo(g,h,i)perylene	ND		1	13	3.8	ug/kg	11/18/2019 1046
Benzo(k)fluoranthene	ND		1	13	2.1	ug/kg	11/18/2019 1046
1,1'-Biphenyl	ND		1	67	5.0	ug/kg	11/18/2019 1046
4-Bromophenyl phenyl ether	ND		1	67	5.0	ug/kg	11/18/2019 1046
Butyl benzyl phthalate	ND		1	67	5.0	ug/kg	11/18/2019 1046
Caprolactam	ND		1	67	12	ug/kg	11/18/2019 1046
Carbazole	ND		1	67	5.0	ug/kg	11/18/2019 1046
bis (2-Chloro-1-methylethyl) ether	ND		1	67	6.7	ug/kg	11/18/2019 1046
4-Chloro-3-methyl phenol	ND		1	67	5.6	ug/kg	11/18/2019 1046
4-Chloroaniline	ND		1	67	5.8	ug/kg	11/18/2019 1046
bis(2-Chloroethoxy)methane	ND		1	67	5.0	ug/kg	11/18/2019 1046
bis(2-Chloroethyl)ether	ND		1	67	5.5	ug/kg	11/18/2019 1046
2-Chloronaphthalene	ND		1	67	13	ug/kg	11/18/2019 1046
2-Chlorophenol	ND		1	67	11	ug/kg	11/18/2019 1046
4-Chlorophenyl phenyl ether	ND		1	67	5.0	ug/kg	11/18/2019 1046
Chrysene	ND		1	13	3.1	ug/kg	11/18/2019 1046
Dibenzo(a,h)anthracene	ND		1	13	3.0	ug/kg	11/18/2019 1046
Dibenzofuran	ND		1	67	5.0	ug/kg	11/18/2019 1046
3,3'-Dichlorobenzidine	ND		1	67	10	ug/kg	11/18/2019 1046
2,4-Dichlorophenol	ND		1	67	6.6	ug/kg	11/18/2019 1046
Diethylphthalate	ND		1	67	5.0	ug/kg	11/18/2019 1046
Dimethyl phthalate	ND		1	67	5.0	ug/kg	11/18/2019 1046
2,4-Dimethylphenol	ND		1	67	11	ug/kg	11/18/2019 1046
Di-n-butyl phthalate	ND		1	67	9.8	ug/kg	11/18/2019 1046
4,6-Dinitro-2-methylphenol	ND		1	330	25	ug/kg	11/18/2019 1046
2,4-Dinitrophenol	ND		1	330	25	ug/kg	11/18/2019 1046
2,4-Dinitrotoluene	ND		1	130	12	ug/kg	11/18/2019 1046
2,6-Dinitrotoluene	ND		1	130	11	ug/kg	11/18/2019 1046
Di-n-octylphthalate	ND		1	67	5.0	ug/kg	11/18/2019 1046
bis(2-Ethylhexyl)phthalate	ND		1	67	25	ug/kg	11/18/2019 1046
Fluoranthene	ND		1	13	2.2	ug/kg	11/18/2019 1046
Fluorene	ND		1	13	1.9	ug/kg	11/18/2019 1046
Hexachlorobenzene	ND		1	67	5.0	ug/kg	11/18/2019 1046
Hexachlorobutadiene	ND		1	67	8.5	ug/kg	11/18/2019 1046
Hexachlorocyclopentadiene	ND		1	330	25	ug/kg	11/18/2019 1046

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Semivolatile Organic Compounds by GC/MS - MB

Sample ID: UQ36000-001
Batch: 36000
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3546
Prep Date: 11/17/2019 1819

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Hexachloroethane	ND		1	67	5.5	ug/kg	11/18/2019 1046
Indeno(1,2,3-c,d)pyrene	ND		1	13	2.7	ug/kg	11/18/2019 1046
Isophorone	ND		1	67	6.2	ug/kg	11/18/2019 1046
2-Methylnaphthalene	ND		1	13	5.9	ug/kg	11/18/2019 1046
2-Methylphenol	ND		1	67	18	ug/kg	11/18/2019 1046
3+4-Methylphenol	ND		1	130	17	ug/kg	11/18/2019 1046
Naphthalene	ND		1	13	4.7	ug/kg	11/18/2019 1046
2-Nitroaniline	ND		1	130	19	ug/kg	11/18/2019 1046
3-Nitroaniline	ND		1	130	18	ug/kg	11/18/2019 1046
4-Nitroaniline	ND		1	130	20	ug/kg	11/18/2019 1046
Nitrobenzene	ND		1	67	7.8	ug/kg	11/18/2019 1046
2-Nitrophenol	ND		1	130	10	ug/kg	11/18/2019 1046
4-Nitrophenol	ND		1	330	100	ug/kg	11/18/2019 1046
N-Nitrosodi-n-propylamine	ND		1	67	5.7	ug/kg	11/18/2019 1046
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	67	5.1	ug/kg	11/18/2019 1046
Pentachlorophenol	ND		1	330	27	ug/kg	11/18/2019 1046
Phenanthrene	ND		1	13	2.3	ug/kg	11/18/2019 1046
Phenol	ND		1	67	6.2	ug/kg	11/18/2019 1046
Pyrene	ND		1	13	2.8	ug/kg	11/18/2019 1046
2,4,5-Trichlorophenol	ND		1	67	5.0	ug/kg	11/18/2019 1046
2,4,6-Trichlorophenol	ND		1	67	5.0	ug/kg	11/18/2019 1046

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		69	24-137
2-Fluorophenol		61	16-136
Nitrobenzene-d5		51	12-144
Phenol-d5		65	26-148
Terphenyl-d14		100	20-127
2,4,6-Tribromophenol		84	27-128

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: UQ36000-002
Batch: 36000
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3546
Prep Date: 11/17/2019 1819

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	670	500		1	74	46-114	11/18/2019 1110
Acenaphthylene	670	510		1	77	44-122	11/18/2019 1110
Acetophenone	670	430		1	64	48-111	11/18/2019 1110
Anthracene	670	540		1	81	50-119	11/18/2019 1110
Atrazine	670	520		1	77	48-116	11/18/2019 1110
Benzaldehyde	670	260		1	39	10-110	11/18/2019 1110
Benzo(a)anthracene	670	550		1	82	47-121	11/18/2019 1110
Benzo(a)pyrene	670	580		1	87	55-134	11/18/2019 1110
Benzo(b)fluoranthene	670	560		1	84	28-139	11/18/2019 1110
Benzo(g,h,i)perylene	670	640		1	96	36-125	11/18/2019 1110
Benzo(k)fluoranthene	670	560		1	84	47-130	11/18/2019 1110
1,1'-Biphenyl	670	490		1	74	49-110	11/18/2019 1110
4-Bromophenyl phenyl ether	670	510		1	77	46-118	11/18/2019 1110
Butyl benzyl phthalate	670	710		1	107	46-128	11/18/2019 1110
Caprolactam	670	590		1	89	43-121	11/18/2019 1110
Carbazole	670	590		1	88	47-128	11/18/2019 1110
bis (2-Chloro-1-methylethyl) ether	670	570		1	85	31-102	11/18/2019 1110
4-Chloro-3-methyl phenol	670	490		1	73	49-118	11/18/2019 1110
4-Chloroaniline	670	630		1	94	17-106	11/18/2019 1110
bis(2-Chloroethoxy)methane	670	410		1	62	39-108	11/18/2019 1110
bis(2-Chloroethyl)ether	670	560		1	84	32-105	11/18/2019 1110
2-Chloronaphthalene	670	490		1	74	31-127	11/18/2019 1110
2-Chlorophenol	670	510		1	77	37-106	11/18/2019 1110
4-Chlorophenyl phenyl ether	670	500		1	75	47-116	11/18/2019 1110
Chrysene	670	550		1	82	45-126	11/18/2019 1110
Dibenzo(a,h)anthracene	670	560		1	84	45-122	11/18/2019 1110
Dibenzofuran	670	520		1	78	45-112	11/18/2019 1110
3,3'-Dichlorobenzidine	670	520		1	78	10-119	11/18/2019 1110
2,4-Dichlorophenol	670	480		1	72	41-113	11/18/2019 1110
Diethylphthalate	670	550		1	83	49-123	11/18/2019 1110
Dimethyl phthalate	670	540		1	81	48-120	11/18/2019 1110
2,4-Dimethylphenol	670	510		1	76	33-123	11/18/2019 1110
Di-n-butyl phthalate	670	560		1	85	51-129	11/18/2019 1110
4,6-Dinitro-2-methylphenol	670	410		1	61	40-130	11/18/2019 1110
2,4-Dinitrophenol	1300	670		1	50	10-113	11/18/2019 1110
2,4-Dinitrotoluene	670	560		1	84	48-124	11/18/2019 1110
2,6-Dinitrotoluene	670	530		1	80	47-125	11/18/2019 1110
Di-n-octylphthalate	670	570		1	85	49-142	11/18/2019 1110
bis(2-Ethylhexyl)phthalate	670	590		1	88	45-128	11/18/2019 1110
Fluoranthene	670	530		1	80	50-123	11/18/2019 1110
Fluorene	670	530		1	79	48-117	11/18/2019 1110
Hexachlorobenzene	670	590		1	88	44-122	11/18/2019 1110
Hexachlorobutadiene	670	410		1	62	33-103	11/18/2019 1110
Hexachlorocyclopentadiene	3300	2300		1	68	18-121	11/18/2019 1110

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: UQ36000-002
Batch: 36000
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3546
Prep Date: 11/17/2019 1819

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachloroethane	670	420		1	63	30-96	11/18/2019 1110
Indeno(1,2,3-c,d)pyrene	670	620		1	92	45-123	11/18/2019 1110
Isophorone	670	440		1	66	41-113	11/18/2019 1110
2-Methylnaphthalene	670	460		1	69	40-106	11/18/2019 1110
2-Methylphenol	670	500		1	74	32-107	11/18/2019 1110
3+4-Methylphenol	670	510		1	76	39-108	11/18/2019 1110
Naphthalene	670	480		1	71	36-110	11/18/2019 1110
2-Nitroaniline	670	570		1	85	45-123	11/18/2019 1110
3-Nitroaniline	670	560		1	84	24-127	11/18/2019 1110
4-Nitroaniline	670	710		1	107	48-127	11/18/2019 1110
Nitrobenzene	670	420		1	63	33-114	11/18/2019 1110
2-Nitrophenol	670	460		1	68	35-108	11/18/2019 1110
4-Nitrophenol	1300	900		1	68	18-154	11/18/2019 1110
N-Nitrosodi-n-propylamine	670	480		1	71	32-115	11/18/2019 1110
N-Nitrosodiphenylamine (Diphenylamine)	670	550		1	83	53-150	11/18/2019 1110
Pentachlorophenol	1300	750		1	56	27-138	11/18/2019 1110
Phenanthrene	670	530		1	79	49-117	11/18/2019 1110
Phenol	670	500		1	75	36-108	11/18/2019 1110
Pyrene	670	550		1	82	47-119	11/18/2019 1110
2,4,5-Trichlorophenol	670	460		1	69	46-122	11/18/2019 1110
2,4,6-Trichlorophenol	670	560		1	83	38-115	11/18/2019 1110

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		73	24-137
2-Fluorophenol		78	16-136
Nitrobenzene-d5		66	12-144
Phenol-d5		72	26-148
Terphenyl-d14		96	20-127
2,4,6-Tribromophenol		94	27-128

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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PCBs by GC - MB

Sample ID: UQ35771-001
Batch: 35771
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 11/14/2019 2108

Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aroclor 1016	ND		1	10	2.7	ug/kg	11/15/2019 1547
Aroclor 1221	ND		1	10	2.3	ug/kg	11/15/2019 1547
Aroclor 1232	ND		1	10	2.1	ug/kg	11/15/2019 1547
Aroclor 1242	ND		1	10	1.6	ug/kg	11/15/2019 1547
Aroclor 1248	ND		1	10	4.1	ug/kg	11/15/2019 1547
Aroclor 1254	ND		1	10	2.5	ug/kg	11/15/2019 1547
Aroclor 1260	ND		1	10	2.5	ug/kg	11/15/2019 1547

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		112	41-132
Tetrachloro-m-xylene		92	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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PCBs by GC - LCS

Sample ID: UQ35771-002
Batch: 35771
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 11/14/2019 2108

Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	97		1	97	70-130	11/15/2019 1600
Aroclor 1260	100	110		1	112	70-130	11/15/2019 1600

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		117	41-132
Tetrachloro-m-xylene		95	35-106

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Organochlorine Pesticides by GC - MB

Sample ID: UQ35772-001
Batch: 35772
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 11/14/2019 2108

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aldrin	ND		1	1.0	0.13	ug/kg	11/15/2019 1537
gamma-BHC (Lindane)	ND		1	1.0	0.20	ug/kg	11/15/2019 1537
alpha-BHC	ND		1	1.0	0.12	ug/kg	11/15/2019 1537
beta-BHC	ND		1	1.0	0.26	ug/kg	11/15/2019 1537
delta-BHC	ND		1	1.0	0.21	ug/kg	11/15/2019 1537
Chlordane	ND		1	2.0	0.92	ug/kg	11/15/2019 1537
cis-Chlordane	ND		1	1.0	0.22	ug/kg	11/15/2019 1537
trans-Chlordane	ND		1	1.0	0.14	ug/kg	11/15/2019 1537
4,4'-DDD	ND		1	1.0	0.18	ug/kg	11/15/2019 1537
4,4'-DDE	ND		1	1.0	0.14	ug/kg	11/15/2019 1537
4,4'-DDT	ND		1	1.0	0.15	ug/kg	11/15/2019 1537
Dieldrin	ND		1	1.0	0.14	ug/kg	11/15/2019 1537
Endosulfan I	ND		1	1.0	0.19	ug/kg	11/15/2019 1537
Endosulfan II	ND		1	1.0	0.26	ug/kg	11/15/2019 1537
Endosulfan sulfate	ND		1	1.0	0.21	ug/kg	11/15/2019 1537
Endrin	ND		1	1.0	0.23	ug/kg	11/15/2019 1537
Endrin aldehyde	ND		1	1.0	0.14	ug/kg	11/15/2019 1537
Endrin ketone	ND		1	1.0	0.16	ug/kg	11/15/2019 1537
Heptachlor	ND		1	1.0	0.14	ug/kg	11/15/2019 1537
Heptachlor epoxide	ND		1	1.0	0.16	ug/kg	11/15/2019 1537
Methoxychlor	ND		1	4.0	0.19	ug/kg	11/15/2019 1537
Toxaphene	ND		1	10	3.6	ug/kg	11/15/2019 1537

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		87	57-110
Tetrachloro-m-xylene		83	39-116

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
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N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Organochlorine Pesticides by GC - LCS

Sample ID: UQ35772-002
Batch: 35772
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 11/14/2019 2108

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	20	18		1	90	70-130	11/15/2019 1552
gamma-BHC (Lindane)	20	20		1	99	70-130	11/15/2019 1552
alpha-BHC	20	20		1	98	70-130	11/15/2019 1552
beta-BHC	20	19		1	94	70-130	11/15/2019 1552
delta-BHC	20	22		1	109	50-150	11/15/2019 1552
cis-Chlordane	20	17		1	86	70-130	11/15/2019 1552
trans-Chlordane	20	19		1	93	70-130	11/15/2019 1552
4,4'-DDD	20	18		1	90	70-130	11/15/2019 1552
4,4'-DDE	20	19		1	95	70-130	11/15/2019 1552
4,4'-DDT	20	20		1	100	70-130	11/15/2019 1552
Dieldrin	20	20		1	98	70-130	11/15/2019 1552
Endosulfan I	20	18		1	91	70-130	11/15/2019 1552
Endosulfan II	20	19		1	94	70-130	11/15/2019 1552
Endosulfan sulfate	20	21		1	107	70-130	11/15/2019 1552
Endrin	20	19		1	96	70-130	11/15/2019 1552
Endrin aldehyde	20	20		1	102	70-130	11/15/2019 1552
Endrin ketone	20	24		1	119	70-130	11/15/2019 1552
Heptachlor	20	18		1	88	70-130	11/15/2019 1552
Heptachlor epoxide	20	20		1	99	70-130	11/15/2019 1552
Methoxychlor	20	21		1	107	70-130	11/15/2019 1552

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		91	57-110
Tetrachloro-m-xylene		84	39-116

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
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Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Chain of Custody

and

Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number

Client: SCDHEC	Report to Contact: David Chestnut	Telephone No. / E-mail: chestnde@dhec.sc.gov / 803-898-4066	Quote No.
Address: 2600 Bull Street	Sampler's Signature: X	Analysis (Attach list if more space is needed)	Page ___ of ___
City: Columbia / State: SC / Zip Code: 29201	Printed Name: Ronnie Martin		
Project Name: Okatee River			
Project Number	P.O No.: 4500734318		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	VOC	SVOC/Pest/PCB	Remarks / Cooler I.D.
0582	11/5/19	1011	G		X		1					1	X	X	
054	11/5/19	0906	G		X		1					1	X	X	
05B14	11/5/19	1103	G		X		1					1	X	X	
051	11/5/19	1142	G		X		1					1	X	X	
0518	11/5/19	1215	G		X		1					1	X	X	
			G		X		1					1	X	X	
			G		X		1					1	X	X	
			G		X		1					1	X	X	
			G		X		1					1	X	X	

UK06060

KMN2

Turn Around Time Required (Prior lab approval required for expedited TAT)
[X] Standard [ ] Rush (Please Specify)

Sample Disposal
[ ] Return to Client [ ] Disposal by Lab

Possible Hazard Identification (List any known hazards in the remarks)
[ ] Non-Hazardous [ ] Flammable [ ] Skin Irritant [ ] SDS provided [ ] Unknown

QC Requirements

1. Relinquished by: R Martin	Date: 11/5/19	Time: 1620	1. Received by:	Date: 05Nov19	Time: 1626
2. Relinquished by:	Date: 11/06/19	Time: 1143	2. Received by:	Date:	Time:
3. Relinquished by:	Date:	Time:	3. Received by:	Date:	Time:
4. Relinquished by:	Date:	Time:	4. Laboratory Received by: L Hite	Date: 11/06/19	Time: 1143

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 1.7 °C tb ✓

Document Number: ME002OW-01

Shealy Environmental Services, Inc.
Document Number: ME0018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: SCDHEC Cooler Inspected by/date: DMN / 11/06/19 Lot #: UK06060

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other: ____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 19-1616

1.7 / 1.7 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? ____
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # NA

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA ____ were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA ____ were received with bubbles >6 mm in diameter.

Samples(s) NA ____ were received with TRC > 0.5 mg/L (If #19 is ***no***) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: DMN Date: 11/06/19

Comments:

Section C-1.

SCDHEC Tissue Analytical Results

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS4-0
Matrix: TISSUE
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE40406**
Program Charge: WPC
Collected By: ASP
Date of Collection: 11/05/2019
Time of Collection: 00:00

Species No Code: 217
Species Alpha Code: CRV

Laboratory Sample Number: **AE40406**

	Analyte	Result	Units	Method Reference
Antimony in Fish	Antimony in Fish	<1.0	mg/kg	6010B/EPA 200.7
Arsenic in Fish	Arsenic in Fish	<2.0	mg/kg	6010B/EPA 200.7
Cadmium in Fish	Cadmium in Fish	0.64	mg/kg	6010B/EPA 200.7
Chromium in Fish	Chromium in Fish	<0.20	mg/kg	6010B/EPA 200.7
Copper in Fish	Copper in Fish	20	mg/kg	6010B/EPA 200.7
Lead in Fish	Lead in Fish	<1.0	mg/kg	6010B/EPA 200.7
Manganese in Fish	Manganese in Fish	5.2	mg/kg	6010B/EPA 200.7
Mercury in Fish	Mercury in Fish	<0.10	mg/kg	EPA 7473
Nickel in Fish	Nickel in Fish	<0.40	mg/kg	6010B/EPA 200.7
Zinc in Fish	Zinc in Fish	580	mg/kg	6010B/EPA 200.7

Sample Comments: Sample Collection Problem for PCB.

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB2-0
Matrix: TISSUE

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE40407**
Program Charge: WPC
Collected By: ASP
Date of Collection: 11/05/2019
Time of Collection: 00:00

Species No Code: 217
Species Alpha Code: CRV

Laboratory Sample Number: **AE40407**

	Analyte	Result	Units	Method Reference
Antimony in Fish	Antimony in Fish	<1.0	mg/kg	6010B/EPA 200.7
Arsenic in Fish	Arsenic in Fish	<2.0	mg/kg	6010B/EPA 200.7
Cadmium in Fish	Cadmium in Fish	0.68	mg/kg	6010B/EPA 200.7
Chromium in Fish	Chromium in Fish	0.54	mg/kg	6010B/EPA 200.7
Copper in Fish	Copper in Fish	21	mg/kg	6010B/EPA 200.7
Lead in Fish	Lead in Fish	<1.0	mg/kg	6010B/EPA 200.7
Manganese in Fish	Manganese in Fish	7.8	mg/kg	6010B/EPA 200.7
Mercury in Fish	Mercury in Fish	<0.10	mg/kg	EPA 7473
Nickel in Fish	Nickel in Fish	<0.40	mg/kg	6010B/EPA 200.7
Zinc in Fish	Zinc in Fish	500	mg/kg	6010B/EPA 200.7

Sample Comments: Sample Collection Problem for PCB.

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB14-0
Matrix: TISSUE

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE40408**
Program Charge: WPC
Collected By: ASP
Date of Collection: 11/05/2019
Time of Collection: 00:00

Species No Code: 217
Species Alpha Code: CRV

Laboratory Sample Number: **AE40408**

	Analyte	Result	Units	Method Reference
Antimony in Fish	Antimony in Fish	<1.0	mg/kg	6010B/EPA 200.7
Arsenic in Fish	Arsenic in Fish	<2.0	mg/kg	6010B/EPA 200.7
Cadmium in Fish	Cadmium in Fish	0.71	mg/kg	6010B/EPA 200.7
Chromium in Fish	Chromium in Fish	0.41	mg/kg	6010B/EPA 200.7
Copper in Fish	Copper in Fish	25	mg/kg	6010B/EPA 200.7
Lead in Fish	Lead in Fish	<1.0	mg/kg	6010B/EPA 200.7
Manganese in Fish	Manganese in Fish	10	mg/kg	6010B/EPA 200.7
Mercury in Fish	Mercury in Fish	<0.10	mg/kg	EPA 7473
Nickel in Fish	Nickel in Fish	<0.40	mg/kg	6010B/EPA 200.7
Zinc in Fish	Zinc in Fish	600	mg/kg	6010B/EPA 200.7

Sample Comments: Sample Collection Problem for PCB.

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS1-0
Matrix: TISSUE
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE40409**
Program Charge: WPC
Collected By: ASP
Date of Collection: 11/05/2019
Time of Collection: 00:00

Species No Code: 217
Species Alpha Code: CRV

Laboratory Sample Number: **AE40409**

	Analyte	Result	Units	Method Reference
Antimony in Fish	Antimony in Fish	<1.0	mg/kg	6010B/EPA 200.7
Arsenic in Fish	Arsenic in Fish	<2.0	mg/kg	6010B/EPA 200.7
Cadmium in Fish	Cadmium in Fish	0.68	mg/kg	6010B/EPA 200.7
Chromium in Fish	Chromium in Fish	0.26	mg/kg	6010B/EPA 200.7
Copper in Fish	Copper in Fish	19	mg/kg	6010B/EPA 200.7
Lead in Fish	Lead in Fish	<1.0	mg/kg	6010B/EPA 200.7
Manganese in Fish	Manganese in Fish	7.6	mg/kg	6010B/EPA 200.7
Mercury in Fish	Mercury in Fish	<0.10	mg/kg	EPA 7473
Nickel in Fish	Nickel in Fish	0.53	mg/kg	6010B/EPA 200.7
Zinc in Fish	Zinc in Fish	580	mg/kg	6010B/EPA 200.7

Sample Comments: Sample Collection Problem for PCB.

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS18-0
Matrix: TISSUE

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE40410**
Program Charge: WPC
Collected By: ASP
Date of Collection: 11/05/2019
Time of Collection: 00:00

Species No Code: 217
Species Alpha Code: CRV

Laboratory Sample Number: **AE40410**

	Analyte	Result	Units	Method Reference
Antimony in Fish	Antimony in Fish	<1.0	mg/kg	6010B/EPA 200.7
Arsenic in Fish	Arsenic in Fish	<2.0	mg/kg	6010B/EPA 200.7
Cadmium in Fish	Cadmium in Fish	0.78	mg/kg	6010B/EPA 200.7
Chromium in Fish	Chromium in Fish	0.24	mg/kg	6010B/EPA 200.7
Copper in Fish	Copper in Fish	24	mg/kg	6010B/EPA 200.7
Lead in Fish	Lead in Fish	<1.0	mg/kg	6010B/EPA 200.7
Manganese in Fish	Manganese in Fish	7.6	mg/kg	6010B/EPA 200.7
Mercury in Fish	Mercury in Fish	<0.10	mg/kg	EPA 7473
Nickel in Fish	Nickel in Fish	<0.40	mg/kg	6010B/EPA 200.7
Zinc in Fish	Zinc in Fish	420	mg/kg	6010B/EPA 200.7

Sample Comments: Sample Collection Problem for PCB.

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS18-B
Matrix: TISSUE

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE40411**
Program Charge: WPC
Collected By: ASP
Date of Collection: 11/05/2019
Time of Collection: 00:00

Species No Code: 226
Species Alpha Code: BCC

Laboratory Sample Number: **AE40411**

	Analyte	Result	Units	Method Reference
Antimony in Fish	Antimony in Fish	<1.0	mg/kg	6010B/EPA 200.7
Arsenic in Fish	Arsenic in Fish	2.2	mg/kg	6010B/EPA 200.7
Cadmium in Fish	Cadmium in Fish	<0.20	mg/kg	6010B/EPA 200.7
Chromium in Fish	Chromium in Fish	<0.20	mg/kg	6010B/EPA 200.7
Copper in Fish	Copper in Fish	7.1	mg/kg	6010B/EPA 200.7
Lead in Fish	Lead in Fish	<1.0	mg/kg	6010B/EPA 200.7
Manganese in Fish	Manganese in Fish	2.4	mg/kg	6010B/EPA 200.7
Mercury in Fish	Mercury in Fish	<0.10	mg/kg	EPA 7473
Nickel in Fish	Nickel in Fish	<0.40	mg/kg	6010B/EPA 200.7
Zinc in Fish	Zinc in Fish	29	mg/kg	6010B/EPA 200.7

Sample Comments: Sample Collection Problem for PCB.

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OSB2-B
Matrix: TISSUE

Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE40412**
Program Charge: WPC
Collected By: ASP
Date of Collection: 11/05/2019
Time of Collection: 00:00

Species No Code: 226
Species Alpha Code: BCC

Laboratory Sample Number: **AE40412**

	Analyte	Result	Units	Method Reference
Antimony in Fish	Antimony in Fish	<1.0	mg/kg	6010B/EPA 200.7
Arsenic in Fish	Arsenic in Fish	3.7	mg/kg	6010B/EPA 200.7
Cadmium in Fish	Cadmium in Fish	<0.20	mg/kg	6010B/EPA 200.7
Chromium in Fish	Chromium in Fish	<0.20	mg/kg	6010B/EPA 200.7
Copper in Fish	Copper in Fish	9.0	mg/kg	6010B/EPA 200.7
Lead in Fish	Lead in Fish	<1.0	mg/kg	6010B/EPA 200.7
Manganese in Fish	Manganese in Fish	3.1	mg/kg	6010B/EPA 200.7
Mercury in Fish	Mercury in Fish	<0.10	mg/kg	EPA 7473
Nickel in Fish	Nickel in Fish	<0.40	mg/kg	6010B/EPA 200.7
Zinc in Fish	Zinc in Fish	37	mg/kg	6010B/EPA 200.7

Sample Comments: Sample Collection Problem for PCB.

South Carolina Department of Health and Environmental Control
Analytical & Radiological Environmental
Services Division - Laboratory Report

Station Code: ABLE
Location Description: OS1-B
Matrix: TISSUE
Sample Type:
Additional Info: Able

Laboratory Sample Number: **AE40413**
Program Charge: WPC
Collected By: ASP
Date of Collection: 11/05/2019
Time of Collection: 00:00

Species No Code: 226
Species Alpha Code: BCC

Laboratory Sample Number: **AE40413**

	Analyte	Result	Units	Method Reference
Antimony in Fish	Antimony in Fish	<1.0	mg/kg	6010B/EPA 200.7
Arsenic in Fish	Arsenic in Fish	2.8	mg/kg	6010B/EPA 200.7
Cadmium in Fish	Cadmium in Fish	<0.20	mg/kg	6010B/EPA 200.7
Chromium in Fish	Chromium in Fish	<0.20	mg/kg	6010B/EPA 200.7
Copper in Fish	Copper in Fish	9.2	mg/kg	6010B/EPA 200.7
Lead in Fish	Lead in Fish	<1.0	mg/kg	6010B/EPA 200.7
Manganese in Fish	Manganese in Fish	3.2	mg/kg	6010B/EPA 200.7
Mercury in Fish	Mercury in Fish	<0.10	mg/kg	EPA 7473
Nickel in Fish	Nickel in Fish	<0.40	mg/kg	6010B/EPA 200.7
Zinc in Fish	Zinc in Fish	36	mg/kg	6010B/EPA 200.7

Sample Comments: Sample Collection Problem for PCB.

Section C-2.

Shealy Environmental Services, Inc. Tissue Analytical Results

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

SC DHEC
2600 Bull Street
Columbia, SC 29201
Attention: David Chestnut

Project Name: Able Contracting - Okatee River

Lot Number:**UK19024**

Date Completed:12/19/2019

12/19/2019 10:12 AM
Approved and released by:
Project Manager: Kelly M. Nance

The electronic signature above is the equivalent of a handwritten signature.

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Case Narrative
SC DHEC
Lot Number: UK19024

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Samples were received on the last day of the 14 day holding time. Due to lack of capacity in the extractions laboratory at the time of sample receipt, all samples were prepped outside of the holding time.

Semivolatiles
The laboratory control sample (LCS) associated with batch 36589 had multiple compounds recovered above the acceptance limits. There was insufficient sample volume remaining for re-extraction/re-analysis.

Samples -001 and -004 had the surrogates recovered outside of the acceptance limits due to objective evidence of matrix interference.

All samples were analyzed at dilutions due to the sample matrix. The reporting limits have been raised accordingly.

Pesticides
Surrogates were not added to the method blank associated with batch 36596 due to laboratory error. There was insufficient sample volume remaining for re-extraction/re-analysis; however, surrogates were added to all associated samples.

All samples had one surrogate recovered outside of the acceptance limits. No corrective action was required as the method only requires one surrogate to recover within limits. All samples were analyzed at dilutions due to the sample matrix. The reporting limits have been raised accordingly.

Sample Summary

SC DHEC

Lot Number: UK19024

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	0S4-0	Biota	11/05/2019 1035	11/19/2019
002	0SB2-0	Biota	11/05/2019 1115	11/19/2019
003	0SB14-0	Biota	11/05/2019 1145	11/19/2019
004	0S1-0	Biota	11/06/2019 1325	11/19/2019
005	0S18-0	Biota	11/06/2019 1355	11/19/2019
006	0S18-B	Biota	11/05/2019 1103	11/19/2019
007	0SB2-B	Biota	11/05/2019 0924	11/19/2019
008	0S1-B	Biota	11/05/2019 1014	11/19/2019

(8 samples)

Detection Summary

SC DHEC

Lot Number: UK19024

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
006	0S18-B	Biota	Benzaldehyde	8270D	400	HWJ	ug/kg	23
008	0S1-B	Biota	Benzaldehyde	8270D	310	HWJ	ug/kg	29

(2 detections)

Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-001
Description: 0S4-0
Matrix: Biota
Date Sampled: 11/05/2019 1035
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	4	12/11/2019 1730	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND	HW	2100	42	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND	HW	2100	55	ug/kg	1
Acetophenone	98-86-2	8270D	ND	HW	2100	250	ug/kg	1
Anthracene	120-12-7	8270D	ND	HW	2100	61	ug/kg	1
Atrazine	1912-24-9	8270D	ND	HW	2100	420	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND	HW	5200	290	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND	HW	2100	45	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND	HW	2100	100	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND	HW	2100	93	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND	HW	2100	94	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND	HW	2100	110	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND	HW	2100	130	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND	HW	2100	170	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND	HW	2100	180	ug/kg	1
Caprolactam	105-60-2	8270D	ND	HW	5200	150	ug/kg	1
Carbazole	86-74-8	8270D	ND	HW	2100	200	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND	HW	2100	190	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND	HW	2100	130	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND	HW	2100	64	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND	HW	2100	170	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND	HW	2100	160	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND	HW	2100	130	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND	HW	2100	120	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND	HW	2100	140	ug/kg	1
Chrysene	218-01-9	8270D	ND	HW	2100	43	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND	HW	2100	91	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND	HW	2100	54	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND	HW	5200	240	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND	HW	2100	120	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND	HW	2100	85	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND	HW	2100	140	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND	HW	2100	210	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND	HW	2100	250	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND	HW	10000	840	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND	HW	10000	1400	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND	HW	2100	230	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND	HW	2100	240	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND	HW	2100	200	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND	HW	2100	300	ug/kg	1
Fluoranthene	206-44-0	8270D	ND	HW	2100	43	ug/kg	1
Fluorene	86-73-7	8270D	ND	HW	2100	53	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND	HW	2100	55	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND	HW	2100	160	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND	HW	10000	1100	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-001
Description: 0S4-0
Matrix: Biota
Date Sampled: 11/05/2019 1035
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	4	12/11/2019 1730	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND	HW	2100	120	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND	HW	2100	120	ug/kg	1
Isophorone	78-59-1	8270D	ND	HW	2100	180	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND	HW	2100	50	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND	HW	2100	150	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND	HW	4200	210	ug/kg	1
Naphthalene	91-20-3	8270D	ND	HW	2100	58	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND	HW	2100	190	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND	HW	2100	130	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND	HW	2100	130	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND	HW	2100	270	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND	HW	4200	300	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND	HW	10000	860	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND	HW	2100	250	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND	HW	2100	150	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND	HW	10000	920	ug/kg	1
Phenanthrene	85-01-8	8270D	ND	HW	2100	56	ug/kg	1
Phenol	108-95-2	8270D	ND	HW	2100	140	ug/kg	1
Pyrene	129-00-0	8270D	ND	HW	2100	60	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND	HW	2100	130	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND	HW	2100	97	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	H	50	33-102
2-Fluorophenol	HN	0.00	28-104
Nitrobenzene-d5	H	64	22-109
Phenol-d5	HN	0.00	27-103
Terphenyl-d14	H	72	41-120
2,4,6-Tribromophenol	HN	0.00	30-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Organochlorine Pesticides by GC

Client: SC DHEC
Laboratory ID: UK19024-001
Description: 0S4-0
Matrix: Biota
Date Sampled: 11/05/2019 1035
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8081B	4	12/09/2019 2000	DAL1	11/21/2019 1953	36594

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND	HW	11	0.18	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND	HW	11	0.33	ug/kg	1
alpha-BHC	319-84-6	8081B	ND	HW	11	0.20	ug/kg	1
beta-BHC	319-85-7	8081B	ND	HW	11	0.16	ug/kg	1
delta-BHC	319-86-8	8081B	ND	HW	11	0.092	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND	HW	11	0.12	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND	HW	11	0.11	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND	HW	11	0.16	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND	HW	11	1.4	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND	HW	11	0.31	ug/kg	1
Dieldrin	60-57-1	8081B	ND	HW	11	0.12	ug/kg	1
Endosulfan I	959-98-8	8081B	ND	HW	11	0.18	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND	HW	11	0.14	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND	HW	11	0.16	ug/kg	1
Endrin	72-20-8	8081B	ND	HW	11	0.097	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND	HW	11	0.16	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND	HW	11	0.16	ug/kg	1
Heptachlor	76-44-8	8081B	ND	HW	11	0.25	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND	HW	11	0.16	ug/kg	1
Methoxychlor	72-43-5	8081B	ND	HW	44	0.29	ug/kg	1
Toxaphene	8001-35-2	8081B	ND	HW	110	11	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	HN	32	57-110
Tetrachloro-m-xylene	H	40	37-91

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-002
Description: 0SB2-0
Matrix: Biota
Date Sampled: 11/05/2019 1115
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	4	12/11/2019 1447	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND	HW	2300	46	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND	HW	2300	60	ug/kg	1
Acetophenone	98-86-2	8270D	ND	HW	2300	280	ug/kg	1
Anthracene	120-12-7	8270D	ND	HW	2300	67	ug/kg	1
Atrazine	1912-24-9	8270D	ND	HW	2300	460	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND	HW	5700	320	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND	HW	2300	50	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND	HW	2300	110	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND	HW	2300	100	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND	HW	2300	100	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND	HW	2300	130	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND	HW	2300	140	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND	HW	2300	180	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND	HW	2300	200	ug/kg	1
Caprolactam	105-60-2	8270D	ND	HW	5700	170	ug/kg	1
Carbazole	86-74-8	8270D	ND	HW	2300	220	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND	HW	2300	210	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND	HW	2300	140	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND	HW	2300	71	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND	HW	2300	190	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND	HW	2300	180	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND	HW	2300	140	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND	HW	2300	140	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND	HW	2300	160	ug/kg	1
Chrysene	218-01-9	8270D	ND	HW	2300	47	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND	HW	2300	100	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND	HW	2300	60	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND	HW	5700	260	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND	HW	2300	140	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND	HW	2300	94	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND	HW	2300	150	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND	HW	2300	230	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND	HW	2300	280	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND	HW	11000	930	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND	HW	11000	1600	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND	HW	2300	250	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND	HW	2300	260	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND	HW	2300	220	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND	HW	2300	330	ug/kg	1
Fluoranthene	206-44-0	8270D	ND	HW	2300	48	ug/kg	1
Fluorene	86-73-7	8270D	ND	HW	2300	58	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND	HW	2300	61	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND	HW	2300	180	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND	HW	11000	1200	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-002
Description: 0SB2-0
Matrix: Biota
Date Sampled: 11/05/2019 1115
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	4	12/11/2019 1447	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND	HW	2300	130	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND	HW	2300	140	ug/kg	1
Isophorone	78-59-1	8270D	ND	HW	2300	190	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND	HW	2300	55	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND	HW	2300	160	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND	HW	4600	230	ug/kg	1
Naphthalene	91-20-3	8270D	ND	HW	2300	64	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND	HW	2300	200	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND	HW	2300	150	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND	HW	2300	140	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND	HW	2300	300	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND	HW	4600	330	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND	HW	11000	950	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND	HW	2300	280	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND	HW	2300	170	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND	HW	11000	1000	ug/kg	1
Phenanthrene	85-01-8	8270D	ND	HW	2300	62	ug/kg	1
Phenol	108-95-2	8270D	ND	HW	2300	160	ug/kg	1
Pyrene	129-00-0	8270D	ND	HW	2300	66	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND	HW	2300	140	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND	HW	2300	110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	H	50	33-102
2-Fluorophenol	H	59	28-104
Nitrobenzene-d5	H	56	22-109
Phenol-d5	H	56	27-103
Terphenyl-d14	H	77	41-120
2,4,6-Tribromophenol	H	54	30-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Organochlorine Pesticides by GC

Client: SC DHEC
Description: 0SB2-0
Date Sampled: 11/05/2019 1115
Date Received: 11/19/2019

Laboratory ID: UK19024-002
Matrix: Biota

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8081B	4	12/09/2019 2015	DAL1	11/21/2019 1953	36594

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND	HW	13	0.21	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND	HW	13	0.38	ug/kg	1
alpha-BHC	319-84-6	8081B	ND	HW	13	0.23	ug/kg	1
beta-BHC	319-85-7	8081B	ND	HW	13	0.18	ug/kg	1
delta-BHC	319-86-8	8081B	ND	HW	13	0.11	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND	HW	13	0.14	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND	HW	13	0.13	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND	HW	13	0.18	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND	HW	13	1.6	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND	HW	13	0.35	ug/kg	1
Dieldrin	60-57-1	8081B	ND	HW	13	0.14	ug/kg	1
Endosulfan I	959-98-8	8081B	ND	HW	13	0.21	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND	HW	13	0.16	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND	HW	13	0.19	ug/kg	1
Endrin	72-20-8	8081B	ND	HW	13	0.11	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND	HW	13	0.18	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND	HW	13	0.18	ug/kg	1
Heptachlor	76-44-8	8081B	ND	HW	13	0.29	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND	HW	13	0.18	ug/kg	1
Methoxychlor	72-43-5	8081B	ND	HW	51	0.34	ug/kg	1
Toxaphene	8001-35-2	8081B	ND	HW	130	13	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	HN	33	57-110
Tetrachloro-m-xylene	H	41	37-91

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-003
Description: 0SB14-0
Matrix: Biota
Date Sampled: 11/05/2019 1145
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	4	12/11/2019 1510	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND	HW	2000	41	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND	HW	2000	53	ug/kg	1
Acetophenone	98-86-2	8270D	ND	HW	2000	240	ug/kg	1
Anthracene	120-12-7	8270D	ND	HW	2000	59	ug/kg	1
Atrazine	1912-24-9	8270D	ND	HW	2000	400	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND	HW	5100	280	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND	HW	2000	44	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND	HW	2000	97	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND	HW	2000	90	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND	HW	2000	91	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND	HW	2000	110	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND	HW	2000	120	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND	HW	2000	160	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND	HW	2000	170	ug/kg	1
Caprolactam	105-60-2	8270D	ND	HW	5100	150	ug/kg	1
Carbazole	86-74-8	8270D	ND	HW	2000	190	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND	HW	2000	190	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND	HW	2000	120	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND	HW	2000	62	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND	HW	2000	160	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND	HW	2000	160	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND	HW	2000	130	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND	HW	2000	120	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND	HW	2000	140	ug/kg	1
Chrysene	218-01-9	8270D	ND	HW	2000	42	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND	HW	2000	88	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND	HW	2000	53	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND	HW	5100	230	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND	HW	2000	120	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND	HW	2000	83	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND	HW	2000	130	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND	HW	2000	200	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND	HW	2000	240	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND	HW	10000	820	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND	HW	10000	1400	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND	HW	2000	220	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND	HW	2000	230	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND	HW	2000	200	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND	HW	2000	290	ug/kg	1
Fluoranthene	206-44-0	8270D	ND	HW	2000	42	ug/kg	1
Fluorene	86-73-7	8270D	ND	HW	2000	51	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND	HW	2000	54	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND	HW	2000	160	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND	HW	10000	1100	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-003
Description: 0SB14-0
Matrix: Biota
Date Sampled: 11/05/2019 1145
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	4	12/11/2019 1510	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND	HW	2000	120	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND	HW	2000	120	ug/kg	1
Isophorone	78-59-1	8270D	ND	HW	2000	170	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND	HW	2000	48	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND	HW	2000	140	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND	HW	4000	210	ug/kg	1
Naphthalene	91-20-3	8270D	ND	HW	2000	56	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND	HW	2000	180	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND	HW	2000	130	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND	HW	2000	120	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND	HW	2000	260	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND	HW	4000	290	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND	HW	10000	840	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND	HW	2000	240	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND	HW	2000	150	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND	HW	10000	890	ug/kg	1
Phenanthrene	85-01-8	8270D	ND	HW	2000	54	ug/kg	1
Phenol	108-95-2	8270D	ND	HW	2000	140	ug/kg	1
Pyrene	129-00-0	8270D	ND	HW	2000	58	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND	HW	2000	120	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND	HW	2000	94	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	H	46	33-102
2-Fluorophenol	H	56	28-104
Nitrobenzene-d5	H	57	22-109
Phenol-d5	H	65	27-103
Terphenyl-d14	H	70	41-120
2,4,6-Tribromophenol	H	59	30-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Organochlorine Pesticides by GC

Client: SC DHEC
Description: 0SB14-0
Date Sampled: 11/05/2019 1145
Date Received: 11/19/2019

Laboratory ID: UK19024-003
Matrix: Biota

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8081B	4	12/09/2019 2030	DAL1	11/21/2019 1953	36594

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND	HW	10	0.17	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND	HW	10	0.30	ug/kg	1
alpha-BHC	319-84-6	8081B	ND	HW	10	0.18	ug/kg	1
beta-BHC	319-85-7	8081B	ND	HW	10	0.14	ug/kg	1
delta-BHC	319-86-8	8081B	ND	HW	10	0.084	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND	HW	10	0.11	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND	HW	10	0.10	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND	HW	10	0.14	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND	HW	10	1.3	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND	HW	10	0.28	ug/kg	1
Dieldrin	60-57-1	8081B	ND	HW	10	0.11	ug/kg	1
Endosulfan I	959-98-8	8081B	ND	HW	10	0.16	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND	HW	10	0.13	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND	HW	10	0.15	ug/kg	1
Endrin	72-20-8	8081B	ND	HW	10	0.088	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND	HW	10	0.14	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND	HW	10	0.14	ug/kg	1
Heptachlor	76-44-8	8081B	ND	HW	10	0.23	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND	HW	10	0.14	ug/kg	1
Methoxychlor	72-43-5	8081B	ND	HW	40	0.27	ug/kg	1
Toxaphene	8001-35-2	8081B	ND	HW	100	10	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	HN	33	57-110
Tetrachloro-m-xylene	H	42	37-91

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-004
Description: 0S1-0
Matrix: Biota
Date Sampled: 11/06/2019 1325
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	4	12/11/2019 1533	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND	HW	2200	45	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND	HW	2200	59	ug/kg	1
Acetophenone	98-86-2	8270D	ND	HW	2200	270	ug/kg	1
Anthracene	120-12-7	8270D	ND	HW	2200	66	ug/kg	1
Atrazine	1912-24-9	8270D	ND	HW	2200	450	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND	HW	5600	310	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND	HW	2200	49	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND	HW	2200	110	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND	HW	2200	100	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND	HW	2200	100	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND	HW	2200	120	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND	HW	2200	140	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND	HW	2200	180	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND	HW	2200	190	ug/kg	1
Caprolactam	105-60-2	8270D	ND	HW	5600	170	ug/kg	1
Carbazole	86-74-8	8270D	ND	HW	2200	210	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND	HW	2200	210	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND	HW	2200	140	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND	HW	2200	69	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND	HW	2200	180	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND	HW	2200	180	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND	HW	2200	140	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND	HW	2200	130	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND	HW	2200	160	ug/kg	1
Chrysene	218-01-9	8270D	ND	HW	2200	46	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND	HW	2200	98	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND	HW	2200	58	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND	HW	5600	260	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND	HW	2200	130	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND	HW	2200	92	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND	HW	2200	150	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND	HW	2200	220	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND	HW	2200	270	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND	HW	11000	910	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND	HW	11000	1600	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND	HW	2200	240	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND	HW	2200	260	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND	HW	2200	220	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND	HW	2200	320	ug/kg	1
Fluoranthene	206-44-0	8270D	ND	HW	2200	47	ug/kg	1
Fluorene	86-73-7	8270D	ND	HW	2200	57	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND	HW	2200	60	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND	HW	2200	180	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND	HW	11000	1200	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-004
Description: 0S1-0
Matrix: Biota
Date Sampled: 11/06/2019 1325
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	4	12/11/2019 1533	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND	HW	2200	130	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND	HW	2200	130	ug/kg	1
Isophorone	78-59-1	8270D	ND	HW	2200	190	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND	HW	2200	53	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND	HW	2200	160	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND	HW	4500	230	ug/kg	1
Naphthalene	91-20-3	8270D	ND	HW	2200	62	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND	HW	2200	200	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND	HW	2200	140	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND	HW	2200	140	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND	HW	2200	290	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND	HW	4500	330	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND	HW	11000	930	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND	HW	2200	270	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND	HW	2200	170	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND	HW	11000	990	ug/kg	1
Phenanthrene	85-01-8	8270D	ND	HW	2200	60	ug/kg	1
Phenol	108-95-2	8270D	ND	HW	2200	160	ug/kg	1
Pyrene	129-00-0	8270D	ND	HW	2200	64	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND	HW	2200	140	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND	HW	2200	100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	H	60	33-102
2-Fluorophenol	H	42	28-104
Nitrobenzene-d5	H	53	22-109
Phenol-d5	H	45	27-103
Terphenyl-d14	H	70	41-120
2,4,6-Tribromophenol	HN	29	30-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Organochlorine Pesticides by GC

Client: SC DHEC
Laboratory ID: UK19024-004
Description: 0S1-0
Matrix: Biota
Date Sampled: 11/06/2019 1325
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8081B	4	12/09/2019 2046	DAL1	11/21/2019 1953	36594

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND	HW	11	0.19	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND	HW	11	0.34	ug/kg	1
alpha-BHC	319-84-6	8081B	ND	HW	11	0.21	ug/kg	1
beta-BHC	319-85-7	8081B	ND	HW	11	0.17	ug/kg	1
delta-BHC	319-86-8	8081B	ND	HW	11	0.097	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND	HW	11	0.13	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND	HW	11	0.11	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND	HW	11	0.17	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND	HW	11	1.5	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND	HW	11	0.32	ug/kg	1
Dieldrin	60-57-1	8081B	ND	HW	11	0.13	ug/kg	1
Endosulfan I	959-98-8	8081B	ND	HW	11	0.19	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND	HW	11	0.15	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND	HW	11	0.17	ug/kg	1
Endrin	72-20-8	8081B	ND	HW	11	0.10	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND	HW	11	0.17	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND	HW	11	0.17	ug/kg	1
Heptachlor	76-44-8	8081B	ND	HW	11	0.26	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND	HW	11	0.17	ug/kg	1
Methoxychlor	72-43-5	8081B	ND	HW	46	0.31	ug/kg	1
Toxaphene	8001-35-2	8081B	ND	HW	110	11	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	HN	34	57-110
Tetrachloro-m-xylene	H	41	37-91

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-005
Description: 0S18-0
Matrix: Biota
Date Sampled: 11/06/2019 1355
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	4	12/11/2019 1557	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND	HW	2100	42	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND	HW	2100	55	ug/kg	1
Acetophenone	98-86-2	8270D	ND	HW	2100	250	ug/kg	1
Anthracene	120-12-7	8270D	ND	HW	2100	61	ug/kg	1
Atrazine	1912-24-9	8270D	ND	HW	2100	420	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND	HW	5200	290	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND	HW	2100	45	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND	HW	2100	100	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND	HW	2100	93	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND	HW	2100	94	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND	HW	2100	110	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND	HW	2100	130	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND	HW	2100	170	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND	HW	2100	180	ug/kg	1
Caprolactam	105-60-2	8270D	ND	HW	5200	150	ug/kg	1
Carbazole	86-74-8	8270D	ND	HW	2100	200	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND	HW	2100	190	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND	HW	2100	130	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND	HW	2100	64	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND	HW	2100	170	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND	HW	2100	160	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND	HW	2100	130	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND	HW	2100	120	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND	HW	2100	140	ug/kg	1
Chrysene	218-01-9	8270D	ND	HW	2100	43	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND	HW	2100	91	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND	HW	2100	54	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND	HW	5200	240	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND	HW	2100	120	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND	HW	2100	85	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND	HW	2100	140	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND	HW	2100	210	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND	HW	2100	250	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND	HW	10000	840	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND	HW	10000	1400	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND	HW	2100	230	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND	HW	2100	240	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND	HW	2100	200	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND	HW	2100	300	ug/kg	1
Fluoranthene	206-44-0	8270D	ND	HW	2100	43	ug/kg	1
Fluorene	86-73-7	8270D	ND	HW	2100	53	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND	HW	2100	55	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND	HW	2100	160	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND	HW	10000	1100	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-005
Description: 0S18-0
Matrix: Biota
Date Sampled: 11/06/2019 1355
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	4	12/11/2019 1557	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND	HW	2100	120	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND	HW	2100	120	ug/kg	1
Isophorone	78-59-1	8270D	ND	HW	2100	180	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND	HW	2100	50	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND	HW	2100	150	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND	HW	4200	210	ug/kg	1
Naphthalene	91-20-3	8270D	ND	HW	2100	58	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND	HW	2100	190	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND	HW	2100	130	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND	HW	2100	130	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND	HW	2100	270	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND	HW	4200	300	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND	HW	10000	860	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND	HW	2100	250	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND	HW	2100	150	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND	HW	10000	920	ug/kg	1
Phenanthrene	85-01-8	8270D	ND	HW	2100	56	ug/kg	1
Phenol	108-95-2	8270D	ND	HW	2100	140	ug/kg	1
Pyrene	129-00-0	8270D	ND	HW	2100	60	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND	HW	2100	130	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND	HW	2100	97	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	H	55	33-102
2-Fluorophenol	H	58	28-104
Nitrobenzene-d5	H	56	22-109
Phenol-d5	H	61	27-103
Terphenyl-d14	H	68	41-120
2,4,6-Tribromophenol	H	46	30-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
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W = Reported on wet weight basis

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Organochlorine Pesticides by GC

Client: SC DHEC
Description: 0S18-0
Date Sampled: 11/06/2019 1355
Date Received: 11/19/2019

Laboratory ID: UK19024-005
Matrix: Biota

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8081B	4	12/09/2019 2101	DAL1	11/21/2019 1953	36594

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND	HW	13	0.22	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND	HW	13	0.39	ug/kg	1
alpha-BHC	319-84-6	8081B	ND	HW	13	0.23	ug/kg	1
beta-BHC	319-85-7	8081B	ND	HW	13	0.19	ug/kg	1
delta-BHC	319-86-8	8081B	ND	HW	13	0.11	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND	HW	13	0.15	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND	HW	13	0.13	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND	HW	13	0.19	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND	HW	13	1.7	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND	HW	13	0.36	ug/kg	1
Dieldrin	60-57-1	8081B	ND	HW	13	0.15	ug/kg	1
Endosulfan I	959-98-8	8081B	ND	HW	13	0.21	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND	HW	13	0.17	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND	HW	13	0.19	ug/kg	1
Endrin	72-20-8	8081B	ND	HW	13	0.11	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND	HW	13	0.19	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND	HW	13	0.19	ug/kg	1
Heptachlor	76-44-8	8081B	ND	HW	13	0.30	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND	HW	13	0.19	ug/kg	1
Methoxychlor	72-43-5	8081B	ND	HW	52	0.35	ug/kg	1
Toxaphene	8001-35-2	8081B	ND	HW	130	13	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	HN	32	57-110
Tetrachloro-m-xylene	H	41	37-91

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-006
Description: 0S18-B
Matrix: Biota
Date Sampled: 11/05/2019 1103
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	2	12/11/2019 1620	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND	HW	930	19	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND	HW	930	24	ug/kg	1
Acetophenone	98-86-2	8270D	ND	HW	930	110	ug/kg	1
Anthracene	120-12-7	8270D	ND	HW	930	27	ug/kg	1
Atrazine	1912-24-9	8270D	ND	HW	930	190	ug/kg	1
Benzaldehyde	100-52-7	8270D	400	HWJ	2300	130	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND	HW	930	20	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND	HW	930	45	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND	HW	930	42	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND	HW	930	42	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND	HW	930	51	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND	HW	930	57	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND	HW	930	74	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND	HW	930	80	ug/kg	1
Caprolactam	105-60-2	8270D	ND	HW	2300	69	ug/kg	1
Carbazole	86-74-8	8270D	ND	HW	930	88	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND	HW	930	87	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND	HW	930	57	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND	HW	930	29	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND	HW	930	76	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND	HW	930	74	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND	HW	930	58	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND	HW	930	56	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND	HW	930	65	ug/kg	1
Chrysene	218-01-9	8270D	ND	HW	930	19	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND	HW	930	41	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND	HW	930	24	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND	HW	2300	110	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND	HW	930	55	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND	HW	930	38	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND	HW	930	61	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND	HW	930	94	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND	HW	930	110	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND	HW	4700	380	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND	HW	4700	650	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND	HW	930	100	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND	HW	930	110	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND	HW	930	91	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND	HW	930	130	ug/kg	1
Fluoranthene	206-44-0	8270D	ND	HW	930	19	ug/kg	1
Fluorene	86-73-7	8270D	ND	HW	930	24	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND	HW	930	25	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND	HW	930	73	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND	HW	4700	500	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-006
Description: 0S18-B
Matrix: Biota
Date Sampled: 11/05/2019 1103
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	2	12/11/2019 1620	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND	HW	930	54	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND	HW	930	56	ug/kg	1
Isophorone	78-59-1	8270D	ND	HW	930	79	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND	HW	930	22	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND	HW	930	66	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND	HW	1900	95	ug/kg	1
Naphthalene	91-20-3	8270D	ND	HW	930	26	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND	HW	930	83	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND	HW	930	60	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND	HW	930	56	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND	HW	930	120	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND	HW	1900	140	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND	HW	4700	390	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND	HW	930	110	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND	HW	930	69	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND	HW	4700	410	ug/kg	1
Phenanthrene	85-01-8	8270D	ND	HW	930	25	ug/kg	1
Phenol	108-95-2	8270D	ND	HW	930	65	ug/kg	1
Pyrene	129-00-0	8270D	ND	HW	930	27	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND	HW	930	57	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND	HW	930	44	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	H	60	33-102
2-Fluorophenol	H	46	28-104
Nitrobenzene-d5	H	83	22-109
Phenol-d5	H	69	27-103
Terphenyl-d14	H	78	41-120
2,4,6-Tribromophenol	H	44	30-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Organochlorine Pesticides by GC

Client: SC DHEC
Description: 0S18-B
Date Sampled: 11/05/2019 1103
Date Received: 11/19/2019

Laboratory ID: UK19024-006
Matrix: Biota

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8081B	4	12/09/2019 2117	DAL1	11/21/2019 1953	36594

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND	HW	9.4	0.16	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND	HW	9.4	0.28	ug/kg	1
alpha-BHC	319-84-6	8081B	ND	HW	9.4	0.17	ug/kg	1
beta-BHC	319-85-7	8081B	ND	HW	9.4	0.14	ug/kg	1
delta-BHC	319-86-8	8081B	ND	HW	9.4	0.079	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND	HW	9.4	0.11	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND	HW	9.4	0.094	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND	HW	9.4	0.14	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND	HW	9.4	1.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND	HW	9.4	0.26	ug/kg	1
Dieldrin	60-57-1	8081B	ND	HW	9.4	0.11	ug/kg	1
Endosulfan I	959-98-8	8081B	ND	HW	9.4	0.15	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND	HW	9.4	0.12	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND	HW	9.4	0.14	ug/kg	1
Endrin	72-20-8	8081B	ND	HW	9.4	0.083	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND	HW	9.4	0.14	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND	HW	9.4	0.14	ug/kg	1
Heptachlor	76-44-8	8081B	ND	HW	9.4	0.22	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND	HW	9.4	0.14	ug/kg	1
Methoxychlor	72-43-5	8081B	ND	HW	38	0.25	ug/kg	1
Toxaphene	8001-35-2	8081B	ND	HW	94	9.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	HN	44	57-110
Tetrachloro-m-xylene	H	42	37-91

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-007
Description: 0SB2-B
Matrix: Biota
Date Sampled: 11/05/2019 0924
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	2	12/11/2019 1644	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND	HW	940	19	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND	HW	940	25	ug/kg	1
Acetophenone	98-86-2	8270D	ND	HW	940	110	ug/kg	1
Anthracene	120-12-7	8270D	ND	HW	940	28	ug/kg	1
Atrazine	1912-24-9	8270D	ND	HW	940	190	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND	HW	2400	130	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND	HW	940	21	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND	HW	940	45	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND	HW	940	42	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND	HW	940	42	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND	HW	940	51	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND	HW	940	58	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND	HW	940	75	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND	HW	940	81	ug/kg	1
Caprolactam	105-60-2	8270D	ND	HW	2400	70	ug/kg	1
Carbazole	86-74-8	8270D	ND	HW	940	89	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND	HW	940	88	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND	HW	940	57	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND	HW	940	29	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND	HW	940	76	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND	HW	940	75	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND	HW	940	59	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND	HW	940	56	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND	HW	940	65	ug/kg	1
Chrysene	218-01-9	8270D	ND	HW	940	19	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND	HW	940	41	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND	HW	940	25	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND	HW	2400	110	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND	HW	940	56	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND	HW	940	39	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND	HW	940	62	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND	HW	940	94	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND	HW	940	110	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND	HW	4700	380	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND	HW	4700	650	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND	HW	940	100	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND	HW	940	110	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND	HW	940	92	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND	HW	940	140	ug/kg	1
Fluoranthene	206-44-0	8270D	ND	HW	940	20	ug/kg	1
Fluorene	86-73-7	8270D	ND	HW	940	24	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND	HW	940	25	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND	HW	940	74	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND	HW	4700	500	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-007
Description: 0SB2-B
Matrix: Biota
Date Sampled: 11/05/2019 0924
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	2	12/11/2019 1644	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND	HW	940	54	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND	HW	940	56	ug/kg	1
Isophorone	78-59-1	8270D	ND	HW	940	79	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND	HW	940	22	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND	HW	940	67	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND	HW	1900	96	ug/kg	1
Naphthalene	91-20-3	8270D	ND	HW	940	26	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND	HW	940	84	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND	HW	940	61	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND	HW	940	57	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND	HW	940	120	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND	HW	1900	140	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND	HW	4700	390	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND	HW	940	110	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND	HW	940	69	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND	HW	4700	420	ug/kg	1
Phenanthrene	85-01-8	8270D	ND	HW	940	25	ug/kg	1
Phenol	108-95-2	8270D	ND	HW	940	65	ug/kg	1
Pyrene	129-00-0	8270D	ND	HW	940	27	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND	HW	940	57	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND	HW	940	44	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	H	64	33-102
2-Fluorophenol	H	38	28-104
Nitrobenzene-d5	H	76	22-109
Phenol-d5	H	58	27-103
Terphenyl-d14	H	78	41-120
2,4,6-Tribromophenol	H	56	30-150

LOQ = Limit of Quantitation
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Organochlorine Pesticides by GC

Client: SC DHEC
Laboratory ID: UK19024-007
Description: 0SB2-B
Matrix: Biota
Date Sampled: 11/05/2019 0924
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8081B	4	12/09/2019 2132	DAL1	11/21/2019 1953	36594

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND	HW	9.3	0.16	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND	HW	9.3	0.28	ug/kg	1
alpha-BHC	319-84-6	8081B	ND	HW	9.3	0.17	ug/kg	1
beta-BHC	319-85-7	8081B	ND	HW	9.3	0.13	ug/kg	1
delta-BHC	319-86-8	8081B	ND	HW	9.3	0.079	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND	HW	9.3	0.10	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND	HW	9.3	0.093	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND	HW	9.3	0.13	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND	HW	9.3	1.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND	HW	9.3	0.26	ug/kg	1
Dieldrin	60-57-1	8081B	ND	HW	9.3	0.10	ug/kg	1
Endosulfan I	959-98-8	8081B	ND	HW	9.3	0.15	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND	HW	9.3	0.12	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND	HW	9.3	0.14	ug/kg	1
Endrin	72-20-8	8081B	ND	HW	9.3	0.082	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND	HW	9.3	0.13	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND	HW	9.3	0.13	ug/kg	1
Heptachlor	76-44-8	8081B	ND	HW	9.3	0.21	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND	HW	9.3	0.13	ug/kg	1
Methoxychlor	72-43-5	8081B	ND	HW	37	0.25	ug/kg	1
Toxaphene	8001-35-2	8081B	ND	HW	93	9.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	HN	42	57-110
Tetrachloro-m-xylene	H	41	37-91

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
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W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-008
Description: 0S1-B
Matrix: Biota
Date Sampled: 11/05/2019 1014
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	2	12/11/2019 1707	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acenaphthene	83-32-9	8270D	ND	HW	930	19	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND	HW	930	24	ug/kg	1
Acetophenone	98-86-2	8270D	ND	HW	930	110	ug/kg	1
Anthracene	120-12-7	8270D	ND	HW	930	27	ug/kg	1
Atrazine	1912-24-9	8270D	ND	HW	930	190	ug/kg	1
Benzaldehyde	100-52-7	8270D	310	HWJ	2300	130	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND	HW	930	20	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND	HW	930	45	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND	HW	930	42	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND	HW	930	42	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND	HW	930	51	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND	HW	930	57	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND	HW	930	74	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND	HW	930	80	ug/kg	1
Caprolactam	105-60-2	8270D	ND	HW	2300	69	ug/kg	1
Carbazole	86-74-8	8270D	ND	HW	930	88	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND	HW	930	87	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND	HW	930	57	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND	HW	930	29	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND	HW	930	76	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND	HW	930	74	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND	HW	930	58	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND	HW	930	56	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND	HW	930	65	ug/kg	1
Chrysene	218-01-9	8270D	ND	HW	930	19	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND	HW	930	41	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND	HW	930	24	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND	HW	2300	110	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND	HW	930	55	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND	HW	930	38	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND	HW	930	61	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND	HW	930	94	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND	HW	930	110	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND	HW	4700	380	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND	HW	4700	650	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND	HW	930	100	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND	HW	930	110	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND	HW	930	91	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND	HW	930	130	ug/kg	1
Fluoranthene	206-44-0	8270D	ND	HW	930	19	ug/kg	1
Fluorene	86-73-7	8270D	ND	HW	930	24	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND	HW	930	25	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND	HW	930	73	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND	HW	4700	500	ug/kg	1

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Semivolatile Organic Compounds by GC/MS

Client: SC DHEC
Laboratory ID: UK19024-008
Description: 0S1-B
Matrix: Biota
Date Sampled: 11/05/2019 1014
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8270D	2	12/11/2019 1707	SCD	11/21/2019 1948	36589

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Hexachloroethane	67-72-1	8270D	ND	HW	930	54	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND	HW	930	56	ug/kg	1
Isophorone	78-59-1	8270D	ND	HW	930	79	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND	HW	930	22	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND	HW	930	66	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND	HW	1900	95	ug/kg	1
Naphthalene	91-20-3	8270D	ND	HW	930	26	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND	HW	930	83	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND	HW	930	60	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND	HW	930	56	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND	HW	930	120	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND	HW	1900	140	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND	HW	4700	390	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND	HW	930	110	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND	HW	930	69	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND	HW	4700	410	ug/kg	1
Phenanthrene	85-01-8	8270D	ND	HW	930	25	ug/kg	1
Phenol	108-95-2	8270D	ND	HW	930	65	ug/kg	1
Pyrene	129-00-0	8270D	ND	HW	930	27	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND	HW	930	57	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND	HW	930	44	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl	H	62	33-102
2-Fluorophenol	H	50	28-104
Nitrobenzene-d5	H	100	22-109
Phenol-d5	H	64	27-103
Terphenyl-d14	H	80	41-120
2,4,6-Tribromophenol	H	64	30-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
H = Out of holding time
W = Reported on wet weight basis

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Organochlorine Pesticides by GC

Client: SC DHEC
Laboratory ID: UK19024-008
Description: 0S1-B
Matrix: Biota
Date Sampled: 11/05/2019 1014
Date Received: 11/19/2019

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3540C	8081B	4	12/09/2019 2148	DAL1	11/21/2019 1953	36594

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Aldrin	309-00-2	8081B	ND	HW	9.5	0.16	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND	HW	9.5	0.29	ug/kg	1
alpha-BHC	319-84-6	8081B	ND	HW	9.5	0.17	ug/kg	1
beta-BHC	319-85-7	8081B	ND	HW	9.5	0.14	ug/kg	1
delta-BHC	319-86-8	8081B	ND	HW	9.5	0.080	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND	HW	9.5	0.11	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND	HW	9.5	0.095	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND	HW	9.5	0.14	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND	HW	9.5	1.2	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND	HW	9.5	0.27	ug/kg	1
Dieldrin	60-57-1	8081B	ND	HW	9.5	0.11	ug/kg	1
Endosulfan I	959-98-8	8081B	ND	HW	9.5	0.16	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND	HW	9.5	0.12	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND	HW	9.5	0.14	ug/kg	1
Endrin	72-20-8	8081B	ND	HW	9.5	0.084	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND	HW	9.5	0.14	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND	HW	9.5	0.14	ug/kg	1
Heptachlor	76-44-8	8081B	ND	HW	9.5	0.22	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND	HW	9.5	0.14	ug/kg	1
Methoxychlor	72-43-5	8081B	ND	HW	38	0.26	ug/kg	1
Toxaphene	8001-35-2	8081B	ND	HW	95	9.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	HN	41	57-110
Tetrachloro-m-xylene	H	38	37-91

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL

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QC Summary

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: UQ36589-001
Batch: 36589
Analytical Method: 8270D

Matrix: Biota
Prep Method: 3540C
Prep Date: 11/21/2019 1948

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acenaphthene	ND		1	500	10	ug/kg	12/11/2019 1314
Acenaphthylene	ND		1	500	13	ug/kg	12/11/2019 1314
Acetophenone	ND		1	500	60	ug/kg	12/11/2019 1314
Anthracene	ND		1	500	15	ug/kg	12/11/2019 1314
Atrazine	ND		1	500	100	ug/kg	12/11/2019 1314
Benzaldehyde	ND		1	1300	69	ug/kg	12/11/2019 1314
Benzo(a)anthracene	ND		1	500	11	ug/kg	12/11/2019 1314
Benzo(a)pyrene	ND		1	500	24	ug/kg	12/11/2019 1314
Benzo(b)fluoranthene	ND		1	500	22	ug/kg	12/11/2019 1314
Benzo(g,h,i)perylene	ND		1	500	23	ug/kg	12/11/2019 1314
Benzo(k)fluoranthene	ND		1	500	27	ug/kg	12/11/2019 1314
1,1'-Biphenyl	ND		1	500	31	ug/kg	12/11/2019 1314
4-Bromophenyl phenyl ether	ND		1	500	40	ug/kg	12/11/2019 1314
Butyl benzyl phthalate	ND		1	500	43	ug/kg	12/11/2019 1314
Caprolactam	ND		1	1300	37	ug/kg	12/11/2019 1314
Carbazole	ND		1	500	47	ug/kg	12/11/2019 1314
bis (2-Chloro-1-methylethyl) ether	ND		1	500	47	ug/kg	12/11/2019 1314
4-Chloro-3-methyl phenol	ND		1	500	30	ug/kg	12/11/2019 1314
4-Chloroaniline	ND		1	500	15	ug/kg	12/11/2019 1314
bis(2-Chloroethoxy)methane	ND		1	500	41	ug/kg	12/11/2019 1314
bis(2-Chloroethyl)ether	ND		1	500	40	ug/kg	12/11/2019 1314
2-Chloronaphthalene	ND		1	500	31	ug/kg	12/11/2019 1314
2-Chlorophenol	ND		1	500	30	ug/kg	12/11/2019 1314
4-Chlorophenyl phenyl ether	ND		1	500	35	ug/kg	12/11/2019 1314
Chrysene	ND		1	500	10	ug/kg	12/11/2019 1314
Dibenzo(a,h)anthracene	ND		1	500	22	ug/kg	12/11/2019 1314
Dibenzofuran	ND		1	500	13	ug/kg	12/11/2019 1314
3,3'-Dichlorobenzidine	ND		1	1300	57	ug/kg	12/11/2019 1314
2,4-Dichlorophenol	ND		1	500	29	ug/kg	12/11/2019 1314
Diethylphthalate	ND		1	500	21	ug/kg	12/11/2019 1314
Dimethyl phthalate	ND		1	500	33	ug/kg	12/11/2019 1314
2,4-Dimethylphenol	ND		1	500	50	ug/kg	12/11/2019 1314
Di-n-butyl phthalate	ND		1	500	60	ug/kg	12/11/2019 1314
4,6-Dinitro-2-methylphenol	ND		1	2500	200	ug/kg	12/11/2019 1314
2,4-Dinitrophenol	ND		1	2500	350	ug/kg	12/11/2019 1314
2,4-Dinitrotoluene	ND		1	500	54	ug/kg	12/11/2019 1314
2,6-Dinitrotoluene	ND		1	500	57	ug/kg	12/11/2019 1314
Di-n-octylphthalate	ND		1	500	49	ug/kg	12/11/2019 1314
bis(2-Ethylhexyl)phthalate	ND		1	500	72	ug/kg	12/11/2019 1314
Fluoranthene	ND		1	500	10	ug/kg	12/11/2019 1314
Fluorene	ND		1	500	13	ug/kg	12/11/2019 1314
Hexachlorobenzene	ND		1	500	13	ug/kg	12/11/2019 1314
Hexachlorobutadiene	ND		1	500	39	ug/kg	12/11/2019 1314
Hexachlorocyclopentadiene	ND		1	2500	270	ug/kg	12/11/2019 1314

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Semivolatile Organic Compounds by GC/MS - MB

Sample ID: UQ36589-001
Batch: 36589
Analytical Method: 8270D

Matrix: Biota
Prep Method: 3540C
Prep Date: 11/21/2019 1948

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Hexachloroethane	ND		1	500	29	ug/kg	12/11/2019 1314
Indeno(1,2,3-c,d)pyrene	ND		1	500	30	ug/kg	12/11/2019 1314
Isophorone	ND		1	500	42	ug/kg	12/11/2019 1314
2-Methylnaphthalene	ND		1	500	12	ug/kg	12/11/2019 1314
2-Methylphenol	ND		1	500	35	ug/kg	12/11/2019 1314
3+4-Methylphenol	ND		1	1000	51	ug/kg	12/11/2019 1314
Naphthalene	ND		1	500	14	ug/kg	12/11/2019 1314
2-Nitroaniline	ND		1	500	45	ug/kg	12/11/2019 1314
3-Nitroaniline	ND		1	500	32	ug/kg	12/11/2019 1314
4-Nitroaniline	ND		1	500	30	ug/kg	12/11/2019 1314
Nitrobenzene	ND		1	500	65	ug/kg	12/11/2019 1314
2-Nitrophenol	ND		1	1000	73	ug/kg	12/11/2019 1314
4-Nitrophenol	ND		1	2500	210	ug/kg	12/11/2019 1314
N-Nitrosodi-n-propylamine	ND		1	500	60	ug/kg	12/11/2019 1314
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	500	37	ug/kg	12/11/2019 1314
Pentachlorophenol	ND		1	2500	220	ug/kg	12/11/2019 1314
Phenanthrene	ND		1	500	13	ug/kg	12/11/2019 1314
Phenol	ND		1	500	35	ug/kg	12/11/2019 1314
Pyrene	ND		1	500	14	ug/kg	12/11/2019 1314
2,4,5-Trichlorophenol	ND		1	500	30	ug/kg	12/11/2019 1314
2,4,6-Trichlorophenol	ND		1	500	23	ug/kg	12/11/2019 1314

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		54	33-102
2-Fluorophenol		64	28-104
Nitrobenzene-d5		65	22-109
Phenol-d5		59	27-103
Terphenyl-d14		76	41-120
2,4,6-Tribromophenol		47	30-150

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: UQ36589-002
Batch: 36589
Analytical Method: 8270D

Matrix: Biota
Prep Method: 3540C
Prep Date: 11/21/2019 1948

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	2000	1300		1	64	46-114	12/11/2019 1337
Acenaphthylene	2000	1400		1	68	44-122	12/11/2019 1337
Acetophenone	2000	1500		1	73	48-111	12/11/2019 1337
Anthracene	2000	1300		1	67	50-119	12/11/2019 1337
Atrazine	2000	390	N	1	20	48-116	12/11/2019 1337
Benzaldehyde	2000	1700		1	87	40-117	12/11/2019 1337
Benzo(a)anthracene	2000	1700		1	83	47-121	12/11/2019 1337
Benzo(a)pyrene	2000	1700		1	83	55-134	12/11/2019 1337
Benzo(b)fluoranthene	2000	1600		1	78	28-139	12/11/2019 1337
Benzo(g,h,i)perylene	2000	1300		1	63	36-125	12/11/2019 1337
Benzo(k)fluoranthene	2000	1800		1	88	47-130	12/11/2019 1337
1,1'-Biphenyl	2000	1300		1	65	49-110	12/11/2019 1337
4-Bromophenyl phenyl ether	2000	1400		1	68	46-118	12/11/2019 1337
Butyl benzyl phthalate	2000	1600		1	81	46-128	12/11/2019 1337
Caprolactam	2000	1800		1	88	43-121	12/11/2019 1337
Carbazole	2000	1200		1	62	47-128	12/11/2019 1337
bis (2-Chloro-1-methylethyl) ether	2000	ND	N	1	0.00	31-102	12/11/2019 1337
4-Chloro-3-methyl phenol	2000	1500		1	75	49-118	12/11/2019 1337
4-Chloroaniline	2000	ND	N	1	0.00	10-125	12/11/2019 1337
bis(2-Chloroethoxy)methane	2000	1200		1	62	39-108	12/11/2019 1337
bis(2-Chloroethyl)ether	2000	1500		1	73	32-105	12/11/2019 1337
2-Chloronaphthalene	2000	1400		1	68	31-127	12/11/2019 1337
2-Chlorophenol	2000	1500		1	74	37-106	12/11/2019 1337
4-Chlorophenyl phenyl ether	2000	1500		1	73	47-116	12/11/2019 1337
Chrysene	2000	1500		1	77	45-126	12/11/2019 1337
Dibenzo(a,h)anthracene	2000	1400		1	70	45-122	12/11/2019 1337
Dibenzofuran	2000	1300		1	67	45-112	12/11/2019 1337
3,3'-Dichlorobenzidine	2000	ND	N	1	0.00	46-113	12/11/2019 1337
2,4-Dichlorophenol	2000	1400		1	71	41-113	12/11/2019 1337
Diethylphthalate	2000	1400		1	71	49-123	12/11/2019 1337
Dimethyl phthalate	2000	1400		1	69	48-120	12/11/2019 1337
2,4-Dimethylphenol	2000	2100		1	106	33-123	12/11/2019 1337
Di-n-butyl phthalate	2000	1700		1	84	51-129	12/11/2019 1337
4,6-Dinitro-2-methylphenol	2000	1400		1	70	40-130	12/11/2019 1337
2,4-Dinitrophenol	4000	3100		1	77	45-127	12/11/2019 1337
2,4-Dinitrotoluene	2000	1500		1	74	48-124	12/11/2019 1337
2,6-Dinitrotoluene	2000	1300		1	65	47-125	12/11/2019 1337
Di-n-octylphthalate	2000	1800		1	89	49-142	12/11/2019 1337
bis(2-Ethylhexyl)phthalate	2000	1600		1	78	45-128	12/11/2019 1337
Fluoranthene	2000	3100	N	1	156	50-123	12/11/2019 1337
Fluorene	2000	1300		1	65	48-117	12/11/2019 1337
Hexachlorobenzene	2000	1100		1	57	44-122	12/11/2019 1337
Hexachlorobutadiene	2000	1600		1	80	33-103	12/11/2019 1337
Hexachlorocyclopentadiene	10000	3700		1	37	18-121	12/11/2019 1337

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: UQ36589-002
Batch: 36589
Analytical Method: 8270D

Matrix: Biota
Prep Method: 3540C
Prep Date: 11/21/2019 1948

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachloroethane	2000	1800		1	90	30-96	12/11/2019 1337
Indeno(1,2,3-c,d)pyrene	2000	1400		1	71	45-123	12/11/2019 1337
Isophorone	2000	1400		1	70	41-113	12/11/2019 1337
2-Methylnaphthalene	2000	1300		1	63	40-106	12/11/2019 1337
2-Methylphenol	2000	1600		1	81	32-107	12/11/2019 1337
3+4-Methylphenol	2000	1500		1	76	39-108	12/11/2019 1337
Naphthalene	2000	1300		1	64	36-110	12/11/2019 1337
2-Nitroaniline	2000	1700		1	87	45-123	12/11/2019 1337
3-Nitroaniline	2000	ND	N	1	0.00	24-127	12/11/2019 1337
4-Nitroaniline	2000	630	N	1	31	48-127	12/11/2019 1337
Nitrobenzene	2000	1400		1	71	33-114	12/11/2019 1337
2-Nitrophenol	2000	1200		1	61	35-108	12/11/2019 1337
4-Nitrophenol	4000	3500		1	87	18-154	12/11/2019 1337
N-Nitrosodi-n-propylamine	2000	1400		1	72	32-115	12/11/2019 1337
N-Nitrosodiphenylamine (Diphenylamine)	2000	1300		1	67	53-150	12/11/2019 1337
Pentachlorophenol	4000	2600		1	65	27-138	12/11/2019 1337
Phenanthrene	2000	1200		1	62	49-117	12/11/2019 1337
Phenol	2000	1500		1	77	36-108	12/11/2019 1337
Pyrene	2000	1600		1	79	47-119	12/11/2019 1337
2,4,5-Trichlorophenol	2000	1400		1	70	46-122	12/11/2019 1337
2,4,6-Trichlorophenol	2000	1600		1	80	38-115	12/11/2019 1337

Surrogate	Q	% Rec	Acceptance Limit
2-Fluorobiphenyl		59	33-102
2-Fluorophenol		72	28-104
Nitrobenzene-d5		66	22-109
Phenol-d5		74	27-103
Terphenyl-d14		74	41-120
2,4,6-Tribromophenol		63	30-150

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Organochlorine Pesticides by GC - MB

Sample ID: UQ36594-001
Batch: 36594
Analytical Method: 8081B

Matrix: Biota
Prep Method: 3540C
Prep Date: 11/21/2019 1953

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Aldrin	ND		1	2.5	0.042	ug/kg	12/10/2019 1549
gamma-BHC (Lindane)	ND		1	2.5	0.075	ug/kg	12/10/2019 1549
alpha-BHC	ND		1	2.5	0.045	ug/kg	12/10/2019 1549
beta-BHC	ND		1	2.5	0.036	ug/kg	12/10/2019 1549
delta-BHC	ND		1	2.5	0.021	ug/kg	12/10/2019 1549
cis-Chlordane	ND		1	2.5	0.028	ug/kg	12/10/2019 1549
trans-Chlordane	ND		1	2.5	0.025	ug/kg	12/10/2019 1549
4,4'-DDD	ND		1	2.5	0.036	ug/kg	12/10/2019 1549
4,4'-DDE	ND		1	2.5	0.32	ug/kg	12/10/2019 1549
4,4'-DDT	ND		1	2.5	0.070	ug/kg	12/10/2019 1549
Dieldrin	ND		1	2.5	0.028	ug/kg	12/10/2019 1549
Endosulfan I	ND		1	2.5	0.041	ug/kg	12/10/2019 1549
Endosulfan II	ND		1	2.5	0.032	ug/kg	12/10/2019 1549
Endosulfan sulfate	ND		1	2.5	0.037	ug/kg	12/10/2019 1549
Endrin	ND		1	2.5	0.022	ug/kg	12/10/2019 1549
Endrin aldehyde	ND		1	2.5	0.036	ug/kg	12/10/2019 1549
Endrin ketone	ND		1	2.5	0.036	ug/kg	12/10/2019 1549
Heptachlor	ND		1	2.5	0.057	ug/kg	12/10/2019 1549
Heptachlor epoxide	ND		1	2.5	0.036	ug/kg	12/10/2019 1549
Methoxychlor	ND		1	10	0.067	ug/kg	12/10/2019 1549
Toxaphene	ND		1	25	2.5	ug/kg	12/10/2019 1549

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl	N	0.00	57-110
Tetrachloro-m-xylene	N	0.00	37-91

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Organochlorine Pesticides by GC - LCS

Sample ID: UQ36594-002
Batch: 36594
Analytical Method: 8081B

Matrix: Biota
Prep Method: 3540C
Prep Date: 11/21/2019 1953

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	50	44		1	87	45-136	12/10/2019 1605
gamma-BHC (Lindane)	50	42		1	83	49-135	12/10/2019 1605
alpha-BHC	50	41		1	82	45-137	12/10/2019 1605
beta-BHC	50	44		1	87	50-136	12/10/2019 1605
delta-BHC	50	44		1	88	47-139	12/10/2019 1605
cis-Chlordane	50	44		1	88	54-133	12/10/2019 1605
trans-Chlordane	50	44		1	89	53-135	12/10/2019 1605
4,4'-DDD	50	45		1	91	56-139	12/10/2019 1605
4,4'-DDE	50	44		1	88	56-134	12/10/2019 1605
4,4'-DDT	50	45		1	91	50-141	12/10/2019 1605
Dieldrin	50	47		1	93	56-136	12/10/2019 1605
Endosulfan I	50	41		1	83	53-132	12/10/2019 1605
Endosulfan II	50	41		1	81	53-134	12/10/2019 1605
Endosulfan sulfate	50	52		1	104	55-136	12/10/2019 1605
Endrin	50	46		1	92	57-140	12/10/2019 1605
Endrin aldehyde	50	41		1	81	35-137	12/10/2019 1605
Endrin ketone	50	46		1	93	55-136	12/10/2019 1605
Heptachlor	50	42		1	84	47-136	12/10/2019 1605
Heptachlor epoxide	50	47		1	94	52-136	12/10/2019 1605
Methoxychlor	50	61		1	122	52-143	12/10/2019 1605

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		90	57-110
Tetrachloro-m-xylene		77	37-91

LOQ = Limit of Quantitation
DL = Detection Limit
LOD = Limit of Detection

P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
ND = Not detected at or above the DL

N = Recovery is out of criteria
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Chain of Custody

and

Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

SHEALY

Chain of Custody Record

Number

Client: SCDHEC	Report to Contact: David Chestnut	Telephone No. / E-mail: chestnde@dhec.sc.gov / 803-898-4066	Quote No.: 22448
Address: 2600 Bull Street	Sampler's Signature: David Chestnut ASP	Analysis (Attach list if more space is needed)	Page: ___ of ___
City: Columbia / State: SC / Zip Code: 29201	Printed Name: David Chestnut		UK19024 KMN2
Project Name: Okatee River			
Project Number:	P.O No.: 1600734318		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	Tissue	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	SVOC/Pest								Remarks / Cooler I.D.
OS4-O	11/5/19	1035	G	C			X	1						X								
OSB2-O	11/5/19	1115	G	C			X	1						X								
OSB14-O	11/5/19	1145	G	C			X	1						X								
OS1-O	11/6/19	1325	G	C			X	1						X								
OS18-O	11/6/19	1355	G	C			X	1						X								
OS18-B	11/5/19	1103	G	C			X	1						X								
OSB2-B	11/5/19	0924	G	C			X	1						X								
OS1-B	11/5/19	1014	G	C			X	1						X								

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

Sample Disposal: [ ] Return to Client [ ] Disposal by Lab

Possible Hazard Identification (List any known hazards in the remarks): [ ] Non-Hazardous [ ] Flammable [ ] Skin Irritant [ ] SDS provided [ ] Unknown

QC Requirements

	Date	Time		Date	Time
1. Relinquished by	11/19/19	1440	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory Received by:	11/19/19	1440

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Check): [X] Y [ ] N [ ] Ice Pack
Receipt Temp: 4.1 °C

Document Number: ME002OW-01

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Receipt Checklist (SRC)

Client: SCDHEC Cooler Inspected by/date: LKH / 11-19-2019 Lot #: UK19024

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other: _____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 19-2044

4.1 / 4.1 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☑ Yes	☐ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☑ Yes	☐ No		21. Was the quote number listed on the container label? If yes, Quote # 22448

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.

Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is ***no***) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: LKH Date: 11-19-2019

Comments: RECEIVED TWO 40mL HCL VIALS FOR A TRIP BLANK WHICH IS NOT LISTED ON THE COC.

Section D.

Oyster Population Metrics Results

Section D: Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS1	Rep1	dead	64.98
OS1	Rep1	dead	16.26
OS1	Rep1	live	33.74
OS1	Rep1	live	4.56
OS1	Rep1	live	46.56
OS1	Rep1	live	9.68
OS1	Rep1	live	16.28
OS1	Rep1	live	97.98
OS1	Rep1	live	29.32
OS1	Rep1	live	75.09
OS1	Rep1	live	73.94
OS1	Rep1	live	103.53
OS1	Rep1	live	43.06
OS1	Rep1	live	31.42
OS1	Rep1	live	80.86
OS1	Rep1	live	3.79
OS1	Rep1	live	76.46
OS1	Rep1	live	60.6
OS1	Rep1	live	43.61
OS1	Rep1	live	43.18
OS1	Rep1	live	8.48
OS1	Rep1	live	104.57
OS1	Rep1	live	106.43
OS1	Rep1	live	20.39
OS1	Rep1	live	10.24
OS1	Rep1	live	72.66
OS1	Rep1	live	61.69
OS1	Rep1	live	67.47
OS1	Rep1	live	61.54
OS1	Rep1	live	63.24
OS1	Rep1	live	103.16
OS1	Rep1	live	40.13
OS1	Rep1	live	10
OS1	Rep1	live	103.16
OS1	Rep1	live	104.11
OS1	Rep1	live	71.06
OS1	Rep1	live	50.3
OS1	Rep1	live	35.15
OS1	Rep1	live	97.61
OS1	Rep1	live	18.43
OS1	Rep1	live	118.67

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS1	Rep1	live	79.97
OS1	Rep1	live	9.62
OS1	Rep1	live	49.06
OS1	Rep1	live	108.3
OS1	Rep1	live	36.32
OS1	Rep1	live	41.47
OS1	Rep1	live	7.72
OS1	Rep1	live	85.34
OS1	Rep1	live	55.73
OS1	Rep1	live	28.96
OS1	Rep1	live	105.47
OS1	Rep1	live	71.5
OS1	Rep1	live	18.08
OS1	Rep1	live	101.65
OS1	Rep1	live	9.45
OS1	Rep1	live	45.96
OS1	Rep1	live	7.27
OS1	Rep1	live	52.25
OS1	Rep1	live	81.46
OS1	Rep1	live	44.94
OS1	Rep1	live	88.47
OS1	Rep1	live	24.69
OS1	Rep1	live	82.39
OS1	Rep1	live	56.41
OS1	Rep1	live	78.43
OS1	Rep1	live	9.27
OS1	Rep1	live	69.32
OS1	Rep1	live	41.86
OS1	Rep1	live	48.42
OS1	Rep1	live	65.74
OS1	Rep1	live	12.24
OS1	Rep1	live	65.7
OS1	Rep1	live	94.68
OS1	Rep1	live	68.96
OS1	Rep1	live	11.18
OS1	Rep1	live	22
OS1	Rep1	live	102.64
OS1	Rep1	live	60.95
OS1	Rep1	live	51.49
OS1	Rep1	live	6.2
OS1	Rep1	live	36.27

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS1	Rep2	dead	99.15
OS1	Rep2	dead	23.91
OS1	Rep2	dead	38.06
OS1	Rep2	dead	45.69
OS1	Rep2	dead	68.88
OS1	Rep2	live	70.21
OS1	Rep2	live	11.54
OS1	Rep2	live	40.85
OS1	Rep2	live	68.21
OS1	Rep2	live	53.51
OS1	Rep2	live	67.39
OS1	Rep2	live	77.64
OS1	Rep2	live	29.34
OS1	Rep2	live	73.19
OS1	Rep2	live	24.33
OS1	Rep2	live	21.59
OS1	Rep2	live	24.05
OS1	Rep2	live	78.88
OS1	Rep2	live	72.47
OS1	Rep2	live	100.08
OS1	Rep2	live	71.58
OS1	Rep2	live	72.47
OS1	Rep2	live	16.43
OS1	Rep2	live	79.82
OS1	Rep2	live	60.32
OS1	Rep2	live	45.56
OS1	Rep2	live	59.04
OS1	Rep2	live	43.58
OS1	Rep2	live	67.09
OS1	Rep2	live	25.01
OS1	Rep2	live	57.38
OS1	Rep2	live	15.29
OS1	Rep2	live	4.06
OS1	Rep2	live	16.27
OS1	Rep2	live	30.55
OS1	Rep2	live	40.78
OS1	Rep2	live	74.65
OS1	Rep2	live	21.51
OS1	Rep2	live	18.06
OS1	Rep2	live	74.63
OS1	Rep2	live	11.84

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS1	Rep2	live	93.58
OS1	Rep2	live	26.59
OS1	Rep2	live	59.36
OS1	Rep2	live	44.24
OS1	Rep2	live	9.76
OS1	Rep2	live	73.53
OS1	Rep2	live	98.25
OS1	Rep2	live	48.21
OS1	Rep2	live	47.93
OS1	Rep2	live	81.37
OS1	Rep2	live	87.73
OS1	Rep2	live	39.94
OS1	Rep2	live	62.7
OS1	Rep2	live	55.1
OS1	Rep2	live	66.91
OS1	Rep2	live	7.26
OS1	Rep2	live	53.42
OS1	Rep2	live	36.48
OS1	Rep2	live	4.24
OS1	Rep2	live	20.59
OS1	Rep2	live	71.96
OS1	Rep2	live	72.26
OS1	Rep2	live	62.41
OS1	Rep2	live	3.83
OS1	Rep2	live	37.18
OS1	Rep2	live	6.73
OS1	Rep2	live	31.63
OS1	Rep2	live	51.69
OS1	Rep2	live	18.32
OS1	Rep2	live	26.96
OS1	Rep2	live	31.52
OS1	Rep2	live	71.49
OS1	Rep2	live	9.98
OS1	Rep2	live	40.7
OS1	Rep2	live	4.97
OS1	Rep2	live	39.64
OS1	Rep2	live	8.23
OS1	Rep2	live	8.14
OS1	Rep2	live	49.2
OS1	Rep2	live	49.2
OS1	Rep2	live	16.56

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS1	Rep2	live	16.6
OS1	Rep3	dead	78.89
OS1	Rep3	live	49.16
OS1	Rep3	live	29.05
OS1	Rep3	live	71.04
OS1	Rep3	live	35.07
OS1	Rep3	live	9.19
OS1	Rep3	live	68.89
OS1	Rep3	live	58.91
OS1	Rep3	live	108.41
OS1	Rep3	live	51.74
OS1	Rep3	live	88.9
OS1	Rep3	live	64.29
OS1	Rep3	live	92.85
OS1	Rep3	live	18.33
OS1	Rep3	live	73.43
OS1	Rep3	live	20
OS1	Rep3	live	54.77
OS1	Rep3	live	69.83
OS1	Rep3	live	23.57
OS1	Rep3	live	17.57
OS1	Rep3	live	32.66
OS1	Rep3	live	56.08
OS1	Rep3	live	32.33
OS1	Rep3	live	71.98
OS1	Rep3	live	77.89
OS1	Rep3	live	63.12
OS1	Rep3	live	27.83
OS1	Rep3	live	22.09
OS1	Rep3	live	32.82
OS1	Rep3	live	12.47
OS1	Rep3	live	6.83
OS1	Rep3	live	78.85
OS1	Rep3	live	109.68
OS1	Rep3	live	9.28
OS1	Rep3	live	13.08
OS1	Rep3	live	32.62
OS1	Rep3	live	16.29
OS1	Rep3	live	13.54
OS1	Rep3	live	35.72
OS1	Rep3	live	73.36

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS1	Rep3	live	120.85
OS1	Rep3	live	63.47
OS1	Rep3	live	70.15
OS1	Rep3	live	4.35
OS1	Rep3	live	98.07
OS1	Rep3	live	47.22
OS1	Rep3	live	11.03
OS1	Rep3	live	36.9
OS1	Rep3	live	91.72
OS1	Rep3	live	8.4
OS1	Rep3	live	17.49
OS1	Rep3	live	112.99
OS1	Rep3	live	62.3
OS1	Rep3	live	82.55
OS1	Rep3	live	13.4
OS1	Rep3	live	21.48
OS1	Rep3	live	16.84
OS1	Rep3	live	36.15
OS1	Rep3	live	48.45
OS1	Rep3	live	21.8
OS1	Rep3	live	13.67
OS1	Rep3	live	77.29
OS1	Rep3	live	50.27
OS1	Rep3	live	30.13
OS1	Rep3	live	44.75
OS1	Rep3	live	67.15
OS1	Rep3	live	66.58
OS1	Rep3	live	23.55
OS1	Rep3	live	24.83
OS1	Rep3	live	93.38
OS1	Rep3	live	37.04
OS1	Rep3	live	71.11
OS1	Rep3	live	8.84
OS1	Rep3	live	100.61
OS1	Rep3	live	23.93
OS1	Rep3	live	11.18
OS1	Rep3	live	16.84
OS1	Rep3	live	74.65
OS1	Rep3	live	30.29
OS1	Rep3	live	78.99
OS1	Rep3	live	30.26

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS1	Rep3	live	32.04
OS1	Rep3	live	74.73
OS1	Rep3	live	10.55
OS1	Rep3	live	87.1
OS1	Rep3	live	7.57
OS1	Rep3	live	40.27
OS1	Rep3	live	73.68
OS1	Rep3	live	86.27
OS1	Rep3	live	27.12
OS1	Rep3	live	10.57
OS1	Rep3	live	22.86
OS1	Rep3	live	27.48
OS1	Rep3	live	100.86
OS1	Rep3	live	55.34
OS1	Rep3	live	11.58
OS1	Rep3	live	70.82
OS1	Rep3	live	42.43
OS1	Rep3	live	39.63
OS1	Rep3	live	18.06
OS1	Rep3	live	15.8
OS1	Rep3	live	15.31
OS1	Rep3	live	35.5
OS1	Rep3	live	58.47
OS1	Rep3	live	10.47
OS1	Rep3	live	24.65
OS1	Rep3	live	65.48
OS1	Rep3	live	100.95
OS1	Rep3	live	24.24
OS1	Rep3	live	7.94
OS1	Rep3	live	20.01
OS1	Rep3	live	55.24
OS1	Rep3	live	17.22
OS1	Rep3	live	22.23
OS18	Rep1	dead	15.69
OS18	Rep1	dead	37.43
OS18	Rep1	dead	15.6
OS18	Rep1	dead	34.19
OS18	Rep1	dead	18.37
OS18	Rep1	live	24.32
OS18	Rep1	live	29.68
OS18	Rep1	live	14.95

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep1	live	43.93
OS18	Rep1	live	32.35
OS18	Rep1	live	12.31
OS18	Rep1	live	58.08
OS18	Rep1	live	4.53
OS18	Rep1	live	37.71
OS18	Rep1	live	39.51
OS18	Rep1	live	4.27
OS18	Rep1	live	8.91
OS18	Rep1	live	47.16
OS18	Rep1	live	29.07
OS18	Rep1	live	26.52
OS18	Rep1	live	42.59
OS18	Rep1	live	36.34
OS18	Rep1	live	18.48
OS18	Rep1	live	16.09
OS18	Rep1	live	20.28
OS18	Rep1	live	26.07
OS18	Rep1	live	26.32
OS18	Rep1	live	34.56
OS18	Rep1	live	18.1
OS18	Rep1	live	13.07
OS18	Rep1	live	58.95
OS18	Rep1	live	18.75
OS18	Rep1	live	7.71
OS18	Rep1	live	13.05
OS18	Rep1	live	53.87
OS18	Rep1	live	20.53
OS18	Rep1	live	29.08
OS18	Rep1	live	35.13
OS18	Rep1	live	20.15
OS18	Rep1	live	26.51
OS18	Rep1	live	38.63
OS18	Rep1	live	6.26
OS18	Rep1	live	42.33
OS18	Rep1	live	9.89
OS18	Rep1	live	50.22
OS18	Rep1	live	35.82
OS18	Rep1	live	48.82
OS18	Rep1	live	35.79
OS18	Rep1	live	16.68

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep1	live	42.72
OS18	Rep1	live	28.87
OS18	Rep1	live	26.35
OS18	Rep1	live	16.11
OS18	Rep1	live	36.34
OS18	Rep1	live	27.57
OS18	Rep1	live	42.31
OS18	Rep1	live	16.8
OS18	Rep1	live	15.65
OS18	Rep1	live	39.12
OS18	Rep1	live	14.25
OS18	Rep1	live	16.8
OS18	Rep1	live	19.9
OS18	Rep1	live	26.68
OS18	Rep1	live	38.64
OS18	Rep1	live	13.51
OS18	Rep1	live	5.91
OS18	Rep1	live	39.38
OS18	Rep1	live	15.51
OS18	Rep1	live	14.19
OS18	Rep1	live	4.08
OS18	Rep1	live	32.76
OS18	Rep1	live	9.4
OS18	Rep1	live	12.7
OS18	Rep1	live	15.23
OS18	Rep1	live	19.19
OS18	Rep1	live	15.43
OS18	Rep1	live	32.02
OS18	Rep1	live	35.91
OS18	Rep1	live	14.49
OS18	Rep1	live	20.13
OS18	Rep1	live	15.88
OS18	Rep1	live	25.86
OS18	Rep1	live	45.86
OS18	Rep1	live	12.39
OS18	Rep1	live	29.06
OS18	Rep1	live	29.33
OS18	Rep1	live	19.4
OS18	Rep1	live	15.53
OS18	Rep1	live	21.94
OS18	Rep1	live	22.61

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep1	live	14.43
OS18	Rep1	live	13.83
OS18	Rep1	live	18.25
OS18	Rep1	live	18.96
OS18	Rep1	live	14.4
OS18	Rep1	live	17.62
OS18	Rep1	live	26.48
OS18	Rep1	live	15.14
OS18	Rep1	live	8.7
OS18	Rep1	live	17.62
OS18	Rep1	live	47.63
OS18	Rep1	live	22.78
OS18	Rep1	live	7.29
OS18	Rep1	live	53.24
OS18	Rep1	live	9.68
OS18	Rep1	live	7.79
OS18	Rep1	live	7.29
OS18	Rep1	live	29.62
OS18	Rep1	live	9.2
OS18	Rep1	live	19.32
OS18	Rep1	live	7.29
OS18	Rep1	live	36.42
OS18	Rep1	live	38.2
OS18	Rep1	live	14.98
OS18	Rep1	live	14.79
OS18	Rep1	live	37.19
OS18	Rep1	live	12.89
OS18	Rep1	live	31.2
OS18	Rep1	live	45.27
OS18	Rep1	live	30.73
OS18	Rep1	live	17.88
OS18	Rep1	live	48.7
OS18	Rep1	live	25.03
OS18	Rep1	live	16.44
OS18	Rep1	live	47.57
OS18	Rep1	live	57.18
OS18	Rep1	live	25.02
OS18	Rep1	live	8.62
OS18	Rep1	live	10.2
OS18	Rep1	live	15.73
OS18	Rep1	live	34.67

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep1	live	16.64
OS18	Rep1	live	62.98
OS18	Rep1	live	10.17
OS18	Rep1	live	20.39
OS18	Rep1	live	5.99
OS18	Rep1	live	29.33
OS18	Rep1	live	17.23
OS18	Rep1	live	15.07
OS18	Rep1	live	5.96
OS18	Rep1	live	12.13
OS18	Rep1	live	11.78
OS18	Rep1	live	12.53
OS18	Rep1	live	33.76
OS18	Rep1	live	56.56
OS18	Rep1	live	21.87
OS18	Rep1	live	57.13
OS18	Rep1	live	14.26
OS18	Rep1	live	10.44
OS18	Rep1	live	38.71
OS18	Rep1	live	58.69
OS18	Rep1	live	12.39
OS18	Rep1	live	25.13
OS18	Rep1	live	45.78
OS18	Rep1	live	13.23
OS18	Rep1	live	12.39
OS18	Rep1	live	71.89
OS18	Rep1	live	48.72
OS18	Rep1	live	10.03
OS18	Rep1	live	31.08
OS18	Rep1	live	31.87
OS18	Rep1	live	16.45
OS18	Rep1	live	14.7
OS18	Rep1	live	31.08
OS18	Rep1	live	18.99
OS18	Rep1	live	45.74
OS18	Rep1	live	39.63
OS18	Rep1	live	42.27
OS18	Rep1	live	29.37
OS18	Rep1	live	28.18
OS18	Rep1	live	24.66
OS18	Rep1	live	34.65

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep1	live	13.25
OS18	Rep1	live	18.74
OS18	Rep1	live	33.39
OS18	Rep1	live	14.04
OS18	Rep1	live	29.84
OS18	Rep1	live	25.84
OS18	Rep1	live	38.25
OS18	Rep1	live	10.31
OS18	Rep1	live	11.94
OS18	Rep1	live	17.7
OS18	Rep1	live	26.46
OS18	Rep1	live	32.27
OS18	Rep1	live	24.61
OS18	Rep1	live	13.77
OS18	Rep1	live	30.97
OS18	Rep1	live	22.59
OS18	Rep1	live	17.27
OS18	Rep1	live	20.53
OS18	Rep1	live	17.96
OS18	Rep1	live	8.27
OS18	Rep1	live	33.78
OS18	Rep1	live	23.4
OS18	Rep1	live	6.88
OS18	Rep1	live	8.59
OS18	Rep1	live	19.71
OS18	Rep1	live	23.4
OS18	Rep1	live	8.95
OS18	Rep1	live	19.81
OS18	Rep1	live	15.05
OS18	Rep1	live	50.98
OS18	Rep1	live	4.53
OS18	Rep1	live	50.01
OS18	Rep1	live	31.66
OS18	Rep1	live	29.66
OS18	Rep1	live	43.22
OS18	Rep1	live	23.51
OS18	Rep1	live	18.68
OS18	Rep1	live	14.44
OS18	Rep1	live	8.67
OS18	Rep1	live	14.06
OS18	Rep1	live	34.07

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep1	live	21.9
OS18	Rep1	live	23.69
OS18	Rep1	live	20.79
OS18	Rep1	live	13.97
OS18	Rep1	live	24.14
OS18	Rep1	live	35.38
OS18	Rep1	live	23.27
OS18	Rep1	live	8.71
OS18	Rep1	live	48.68
OS18	Rep1	live	51.53
OS18	Rep1	live	24.7
OS18	Rep1	live	6.31
OS18	Rep1	live	40.33
OS18	Rep1	live	14.13
OS18	Rep1	live	18.04
OS18	Rep1	live	10.54
OS18	Rep1	live	60.55
OS18	Rep1	live	11.95
OS18	Rep1	live	34.69
OS18	Rep1	live	15.42
OS18	Rep1	live	16.31
OS18	Rep1	live	18.46
OS18	Rep1	live	34.33
OS18	Rep1	live	9.94
OS18	Rep1	live	28.87
OS18	Rep1	live	7.54
OS18	Rep1	live	32.44
OS18	Rep1	live	6.76
OS18	Rep1	live	23.42
OS18	Rep1	live	16.81
OS18	Rep1	live	65.42
OS18	Rep1	live	9.69
OS18	Rep1	live	5.18
OS18	Rep1	live	78.75
OS18	Rep1	live	28.09
OS18	Rep1	live	36.85
OS18	Rep1	live	3.9
OS18	Rep1	live	21.87
OS18	Rep1	live	26.6
OS18	Rep1	live	4
OS18	Rep1	live	23.13

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep1	live	24.64
OS18	Rep1	live	42.76
OS18	Rep1	live	10.32
OS18	Rep1	live	21.78
OS18	Rep1	live	11.6
OS18	Rep1	live	49.21
OS18	Rep1	live	5.07
OS18	Rep1	live	18.11
OS18	Rep1	live	11.6
OS18	Rep1	live	27.44
OS18	Rep1	live	27.02
OS18	Rep1	live	15.94
OS18	Rep1	live	48.27
OS18	Rep1	live	34.23
OS18	Rep1	live	10.22
OS18	Rep1	live	14.45
OS18	Rep1	live	8.16
OS18	Rep1	live	25.95
OS18	Rep1	live	10.22
OS18	Rep1	live	21.67
OS18	Rep1	live	15.69
OS18	Rep1	live	48.71
OS18	Rep1	live	22.48
OS18	Rep1	live	7.58
OS18	Rep1	live	32.86
OS18	Rep1	live	11.57
OS18	Rep1	live	3.89
OS18	Rep1	live	44.43
OS18	Rep1	live	11.41
OS18	Rep1	live	15.21
OS18	Rep1	live	48.96
OS18	Rep1	live	17.43
OS18	Rep1	live	15.21
OS18	Rep1	live	8.15
OS18	Rep1	live	11.6
OS18	Rep1	live	3.99
OS18	Rep1	live	7.41
OS18	Rep1	live	16.09
OS18	Rep1	live	9.33
OS18	Rep1	live	5.45
OS18	Rep1	live	21.83

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep1	live	68.25
OS18	Rep1	live	23.32
OS18	Rep1	live	14.27
OS18	Rep1	live	15.39
OS18	Rep1	live	56.42
OS18	Rep1	live	12.41
OS18	Rep1	live	5.06
OS18	Rep1	live	72.53
OS18	Rep1	live	8.51
OS18	Rep1	live	32.48
OS18	Rep1	live	34.03
OS18	Rep1	live	36.64
OS18	Rep1	live	7.71
OS18	Rep1	live	38.66
OS18	Rep1	live	9.43
OS18	Rep1	live	22.26
OS18	Rep1	live	32.21
OS18	Rep1	live	12.91
OS18	Rep1	live	8.71
OS18	Rep1	live	64.23
OS18	Rep1	live	10.57
OS18	Rep1	live	40.55
OS18	Rep1	live	21.89
OS18	Rep1	live	4.27
OS18	Rep1	live	24.05
OS18	Rep1	live	39.05
OS18	Rep1	live	12
OS18	Rep1	live	11.89
OS18	Rep1	live	14.41
OS18	Rep1	live	33.05
OS18	Rep1	live	8.64
OS18	Rep1	live	62.54
OS18	Rep1	live	32.58
OS18	Rep1	live	64.96
OS18	Rep1	live	43.35
OS18	Rep1	live	11.54
OS18	Rep1	live	45.9
OS18	Rep1	live	23.5
OS18	Rep1	live	11.29
OS18	Rep1	live	49.69
OS18	Rep1	live	6.03

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep1	live	43.41
OS18	Rep1	live	6.02
OS18	Rep1	live	10.7
OS18	Rep1	live	11.69
OS18	Rep1	live	68.5
OS18	Rep1	live	18.07
OS18	Rep1	live	19.85
OS18	Rep1	live	13.82
OS18	Rep1	live	44.48
OS18	Rep1	live	6.4
OS18	Rep1	live	37.76
OS18	Rep1	live	6.4
OS18	Rep1	live	15.38
OS18	Rep1	live	26.13
OS18	Rep1	live	27.74
OS18	Rep1	live	30.16
OS18	Rep1	live	20.65
OS18	Rep1	live	24.44
OS18	Rep1	live	16.38
OS18	Rep1	live	14.64
OS18	Rep1	live	24.16
OS18	Rep1	live	13.96
OS18	Rep1	live	62.77
OS18	Rep1	live	19.96
OS18	Rep1	live	34.37
OS18	Rep1	live	15.24
OS18	Rep1	live	16.86
OS18	Rep1	live	25.61
OS18	Rep1	live	64.02
OS18	Rep1	live	25.6
OS18	Rep1	live	24.89
OS18	Rep1	live	55.72
OS18	Rep1	live	9.42
OS18	Rep1	live	10.91
OS18	Rep1	live	30.5
OS18	Rep1	live	28.79
OS18	Rep1	live	42.64
OS18	Rep1	live	45.1
OS18	Rep1	live	59.02
OS18	Rep1	live	30.12
OS18	Rep1	live	47.91

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep1	live	13.75
OS18	Rep1	live	18.42
OS18	Rep1	live	73.94
OS18	Rep1	live	50.25
OS18	Rep1	live	43.44
OS18	Rep1	live	19.27
OS18	Rep2	dead	15.18
OS18	Rep2	dead	14.82
OS18	Rep2	dead	31.59
OS18	Rep2	dead	29.13
OS18	Rep2	dead	43.96
OS18	Rep2	live	45.26
OS18	Rep2	live	40.44
OS18	Rep2	live	57.12
OS18	Rep2	live	27.73
OS18	Rep2	live	15.72
OS18	Rep2	live	52.79
OS18	Rep2	live	15.92
OS18	Rep2	live	57.49
OS18	Rep2	live	11.67
OS18	Rep2	live	36.2
OS18	Rep2	live	22.65
OS18	Rep2	live	8.19
OS18	Rep2	live	24.76
OS18	Rep2	live	64.73
OS18	Rep2	live	18.5
OS18	Rep2	live	43.96
OS18	Rep2	live	28.57
OS18	Rep2	live	30.16
OS18	Rep2	live	38.38
OS18	Rep2	live	34.81
OS18	Rep2	live	65.32
OS18	Rep2	live	12.52
OS18	Rep2	live	33.02
OS18	Rep2	live	42.21
OS18	Rep2	live	19.12
OS18	Rep2	live	10.33
OS18	Rep2	live	17.97
OS18	Rep2	live	42.08
OS18	Rep2	live	19.41
OS18	Rep2	live	18.89

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep2	live	2.93
OS18	Rep2	live	38.45
OS18	Rep2	live	10.2
OS18	Rep2	live	20.65
OS18	Rep2	live	2.92
OS18	Rep2	live	10.95
OS18	Rep2	live	44.41
OS18	Rep2	live	36.86
OS18	Rep2	live	69.41
OS18	Rep2	live	8.38
OS18	Rep2	live	58.1
OS18	Rep2	live	52.43
OS18	Rep2	live	11.23
OS18	Rep2	live	52.76
OS18	Rep2	live	34.22
OS18	Rep2	live	45.99
OS18	Rep2	live	7.69
OS18	Rep2	live	23.22
OS18	Rep2	live	6.1
OS18	Rep2	live	45.91
OS18	Rep2	live	19.67
OS18	Rep2	live	9.53
OS18	Rep2	live	20.95
OS18	Rep2	live	10.17
OS18	Rep2	live	10.52
OS18	Rep2	live	15.31
OS18	Rep2	live	6.63
OS18	Rep2	live	15.79
OS18	Rep2	live	10.47
OS18	Rep2	live	25.22
OS18	Rep2	live	10.45
OS18	Rep2	live	33.69
OS18	Rep2	live	59.55
OS18	Rep2	live	10.95
OS18	Rep2	live	15.48
OS18	Rep2	live	11.89
OS18	Rep2	live	26.76
OS18	Rep2	live	33.52
OS18	Rep2	live	9.48
OS18	Rep2	live	19.24
OS18	Rep2	live	15.38

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep2	live	24.25
OS18	Rep2	live	59.92
OS18	Rep2	live	29.78
OS18	Rep2	live	14.78
OS18	Rep2	live	20.04
OS18	Rep2	live	71.27
OS18	Rep2	live	32.7
OS18	Rep2	live	14.77
OS18	Rep2	live	23.02
OS18	Rep2	live	17.63
OS18	Rep2	live	28.75
OS18	Rep2	live	3.79
OS18	Rep2	live	41.98
OS18	Rep2	live	13.12
OS18	Rep2	live	30.06
OS18	Rep2	live	7.05
OS18	Rep2	live	35.93
OS18	Rep2	live	35.94
OS18	Rep2	live	36.09
OS18	Rep2	live	27.42
OS18	Rep2	live	35.93
OS18	Rep2	live	50.7
OS18	Rep2	live	24.45
OS18	Rep2	live	36.87
OS18	Rep2	live	11.48
OS18	Rep2	live	20.17
OS18	Rep2	live	13.4
OS18	Rep2	live	6.64
OS18	Rep2	live	14.06
OS18	Rep2	live	15.34
OS18	Rep2	live	26.67
OS18	Rep2	live	8.78
OS18	Rep2	live	8.39
OS18	Rep2	live	8.13
OS18	Rep2	live	35.35
OS18	Rep2	live	24.23
OS18	Rep2	live	11.44
OS18	Rep2	live	35.49
OS18	Rep2	live	13.3
OS18	Rep2	live	7.99
OS18	Rep2	live	7.39

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep2	live	14.54
OS18	Rep2	live	24.76
OS18	Rep2	live	30.61
OS18	Rep2	live	23.75
OS18	Rep2	live	23.51
OS18	Rep2	live	10.22
OS18	Rep2	live	53.7
OS18	Rep2	live	12.06
OS18	Rep2	live	27.07
OS18	Rep2	live	15.88
OS18	Rep2	live	36.72
OS18	Rep2	live	30.51
OS18	Rep2	live	13.75
OS18	Rep2	live	4.04
OS18	Rep2	live	18.51
OS18	Rep2	live	24.69
OS18	Rep2	live	14.64
OS18	Rep2	live	42.31
OS18	Rep2	live	15.17
OS18	Rep2	live	14.61
OS18	Rep2	live	6.16
OS18	Rep2	live	23.26
OS18	Rep2	live	40.81
OS18	Rep2	live	26.64
OS18	Rep2	live	8.97
OS18	Rep2	live	12.24
OS18	Rep2	live	56.4
OS18	Rep2	live	27.44
OS18	Rep2	live	9.35
OS18	Rep2	live	18.77
OS18	Rep2	live	15.94
OS18	Rep2	live	25.16
OS18	Rep2	live	0
OS18	Rep2	live	18.86
OS18	Rep2	live	15.94
OS18	Rep2	live	8.77
OS18	Rep2	live	46.98
OS18	Rep2	live	26.32
OS18	Rep2	live	18.9
OS18	Rep2	live	27.79
OS18	Rep2	live	15.93

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep2	live	26.32
OS18	Rep2	live	6.36
OS18	Rep2	live	16.63
OS18	Rep2	live	10.12
OS18	Rep2	live	13.98
OS18	Rep2	live	48.91
OS18	Rep2	live	23.91
OS18	Rep2	live	11.24
OS18	Rep2	live	60.25
OS18	Rep2	live	41.88
OS18	Rep2	live	61.77
OS18	Rep2	live	17.78
OS18	Rep2	live	37.14
OS18	Rep2	live	29.54
OS18	Rep2	live	27.91
OS18	Rep2	live	86.27
OS18	Rep2	live	12.58
OS18	Rep2	live	55.41
OS18	Rep2	live	36.37
OS18	Rep2	live	4.88
OS18	Rep2	live	46.88
OS18	Rep2	live	18.08
OS18	Rep2	live	96.19
OS18	Rep2	live	15.97
OS18	Rep2	live	63.02
OS18	Rep2	live	17.28
OS18	Rep2	live	25.71
OS18	Rep2	live	37.3
OS18	Rep2	live	32.57
OS18	Rep2	live	10.34
OS18	Rep2	live	20.21
OS18	Rep2	live	16.42
OS18	Rep2	live	8.51
OS18	Rep2	live	24.38
OS18	Rep2	live	22.96
OS18	Rep2	live	7.55
OS18	Rep2	live	23.05
OS18	Rep2	live	31.7
OS18	Rep2	live	29.52
OS18	Rep2	live	16.47
OS18	Rep2	live	43.18

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep2	live	31.7
OS18	Rep2	live	26.66
OS18	Rep2	live	29.91
OS18	Rep2	live	54.54
OS18	Rep2	live	8.66
OS18	Rep2	live	30.18
OS18	Rep2	live	29.89
OS18	Rep2	live	36.98
OS18	Rep2	live	13.59
OS18	Rep2	live	93.14
OS18	Rep2	live	28.61
OS18	Rep2	live	9.79
OS18	Rep2	live	8.72
OS18	Rep2	live	9.6
OS18	Rep2	live	21.19
OS18	Rep2	live	34.13
OS18	Rep2	live	6.26
OS18	Rep2	live	18.58
OS18	Rep2	live	8.15
OS18	Rep2	live	7.24
OS18	Rep2	live	58.79
OS18	Rep2	live	17.72
OS18	Rep2	live	7.42
OS18	Rep2	live	23.11
OS18	Rep2	live	75.93
OS18	Rep2	live	18.52
OS18	Rep2	live	29.16
OS18	Rep2	live	18.97
OS18	Rep2	live	5.26
OS18	Rep2	live	16.12
OS18	Rep2	live	22.98
OS18	Rep2	live	55.54
OS18	Rep2	live	8.93
OS18	Rep2	live	24.71
OS18	Rep2	live	16.32
OS18	Rep2	live	27.96
OS18	Rep2	live	17.16
OS18	Rep2	live	22.34
OS18	Rep2	live	54.16
OS18	Rep2	live	25.67
OS18	Rep2	live	15.4

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep2	live	44.01
OS18	Rep2	live	10.29
OS18	Rep2	live	11.98
OS18	Rep2	live	39.91
OS18	Rep2	live	83.37
OS18	Rep2	live	15.99
OS18	Rep2	live	10.76
OS18	Rep2	live	26.21
OS18	Rep2	live	121.69
OS18	Rep2	live	30.17
OS18	Rep2	live	22.03
OS18	Rep2	live	59.81
OS18	Rep2	live	35.14
OS18	Rep2	live	50.3
OS18	Rep2	live	7.71
OS18	Rep2	live	37.51
OS18	Rep2	live	52.33
OS18	Rep2	live	30.33
OS18	Rep2	live	44.69
OS18	Rep2	live	34.88
OS18	Rep2	live	19.04
OS18	Rep2	live	23.13
OS18	Rep2	live	3.99
OS18	Rep2	live	30.09
OS18	Rep2	live	3.17
OS18	Rep2	live	35.71
OS18	Rep2	live	19.72
OS18	Rep2	live	38.79
OS18	Rep2	live	38.1
OS18	Rep2	live	23.19
OS18	Rep2	live	8.69
OS18	Rep2	live	19.67
OS18	Rep2	live	16.39
OS18	Rep2	live	12.06
OS18	Rep2	live	5.75
OS18	Rep2	live	20.79
OS18	Rep2	live	20.27
OS18	Rep2	live	39.29
OS18	Rep2	live	52.3
OS18	Rep2	live	32.44
OS18	Rep2	live	43.85

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep2	live	51.42
OS18	Rep2	live	27.55
OS18	Rep2	live	43.99
OS18	Rep2	live	7.65
OS18	Rep2	live	51.36
OS18	Rep2	live	8.1
OS18	Rep2	live	41.43
OS18	Rep2	live	47.28
OS18	Rep2	live	51.4
OS18	Rep2	live	11.3
OS18	Rep2	live	29.25
OS18	Rep2	live	16.62
OS18	Rep2	live	24.41
OS18	Rep2	live	69.64
OS18	Rep2	live	21.91
OS18	Rep2	live	16
OS18	Rep2	live	3.51
OS18	Rep2	live	11.6
OS18	Rep2	live	24.39
OS18	Rep2	live	54.03
OS18	Rep2	live	31.62
OS18	Rep2	live	9.41
OS18	Rep2	live	16.02
OS18	Rep2	live	30.12
OS18	Rep2	live	42.95
OS18	Rep2	live	7.67
OS18	Rep2	live	36.06
OS18	Rep2	live	16.93
OS18	Rep2	live	31.94
OS18	Rep2	live	32.51
OS18	Rep2	live	21.74
OS18	Rep2	live	72.17
OS18	Rep2	live	19.56
OS18	Rep2	live	19.14
OS18	Rep2	live	17.91
OS18	Rep2	live	75.03
OS18	Rep2	live	13.3
OS18	Rep2	live	8.31
OS18	Rep2	live	22.53
OS18	Rep2	live	32.18
OS18	Rep2	live	11.5

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep2	live	8.31
OS18	Rep2	live	9.19
OS18	Rep2	live	49.05
OS18	Rep2	live	12.2
OS18	Rep2	live	25.87
OS18	Rep2	live	23.55
OS18	Rep2	live	23.2
OS18	Rep2	live	23.71
OS18	Rep2	live	13.32
OS18	Rep2	live	20.69
OS18	Rep2	live	22.55
OS18	Rep2	live	11.19
OS18	Rep2	live	64.26
OS18	Rep2	live	15.08
OS18	Rep2	live	53.91
OS18	Rep2	live	6.89
OS18	Rep2	live	6.2
OS18	Rep2	live	29.15
OS18	Rep2	live	90.6
OS18	Rep2	live	20.82
OS18	Rep2	live	40.39
OS18	Rep2	live	43.25
OS18	Rep2	live	11.1
OS18	Rep2	live	40.09
OS18	Rep2	live	39.88
OS18	Rep2	live	29.02
OS18	Rep2	live	14.99
OS18	Rep2	live	14.54
OS18	Rep2	live	23.98
OS18	Rep2	live	35.04
OS18	Rep2	live	30.16
OS18	Rep2	live	13.09
OS18	Rep2	live	22.96
OS18	Rep2	live	50.96
OS18	Rep2	live	26.94
OS18	Rep2	live	46.7
OS18	Rep2	live	12.02
OS18	Rep2	live	22.12
OS18	Rep2	live	38.57
OS18	Rep2	live	28.96
OS18	Rep2	live	12.66

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep2	live	36.06
OS18	Rep2	live	85.53
OS18	Rep2	live	37.63
OS18	Rep2	live	31.74
OS18	Rep2	live	20.25
OS18	Rep2	live	14.14
OS18	Rep2	live	16.78
OS18	Rep2	live	5.48
OS18	Rep2	live	22.2
OS18	Rep2	live	37.2
OS18	Rep2	live	1.28
OS18	Rep2	live	16.58
OS18	Rep2	live	9.69
OS18	Rep2	live	26.07
OS18	Rep2	live	44.19
OS18	Rep2	live	18.02
OS18	Rep2	live	25.88
OS18	Rep2	live	19.94
OS18	Rep2	live	18.18
OS18	Rep2	live	36.51
OS18	Rep2	live	17.4
OS18	Rep2	live	29.04
OS18	Rep2	live	38.99
OS18	Rep2	live	35.67
OS18	Rep2	live	80.33
OS18	Rep2	live	40.86
OS18	Rep2	live	55.16
OS18	Rep2	live	9.29
OS18	Rep3	dead	15.72
OS18	Rep3	dead	11.18
OS18	Rep3	dead	21.44
OS18	Rep3	dead	18.86
OS18	Rep3	live	26.45
OS18	Rep3	live	51.55
OS18	Rep3	live	51.97
OS18	Rep3	live	68.86
OS18	Rep3	live	8.05
OS18	Rep3	live	39.03
OS18	Rep3	live	4.26
OS18	Rep3	live	25.16
OS18	Rep3	live	13.43

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep3	live	2.1
OS18	Rep3	live	4.26
OS18	Rep3	live	11.88
OS18	Rep3	live	35.79
OS18	Rep3	live	20.4
OS18	Rep3	live	17.45
OS18	Rep3	live	35.8
OS18	Rep3	live	23.58
OS18	Rep3	live	16.17
OS18	Rep3	live	10.08
OS18	Rep3	live	10.14
OS18	Rep3	live	86.59
OS18	Rep3	live	34.46
OS18	Rep3	live	35.87
OS18	Rep3	live	14.65
OS18	Rep3	live	28.61
OS18	Rep3	live	60.42
OS18	Rep3	live	38.99
OS18	Rep3	live	80.41
OS18	Rep3	live	37.63
OS18	Rep3	live	6.67
OS18	Rep3	live	67.89
OS18	Rep3	live	35.32
OS18	Rep3	live	13.51
OS18	Rep3	live	14.42
OS18	Rep3	live	23.06
OS18	Rep3	live	21.98
OS18	Rep3	live	12.26
OS18	Rep3	live	14.42
OS18	Rep3	live	41.61
OS18	Rep3	live	63.34
OS18	Rep3	live	37.75
OS18	Rep3	live	14.64
OS18	Rep3	live	9.94
OS18	Rep3	live	21.72
OS18	Rep3	live	57.06
OS18	Rep3	live	20.86
OS18	Rep3	live	16.46
OS18	Rep3	live	17.81
OS18	Rep3	live	19.1
OS18	Rep3	live	16.92

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep3	live	9.09
OS18	Rep3	live	93.26
OS18	Rep3	live	14.43
OS18	Rep3	live	3.33
OS18	Rep3	live	9.57
OS18	Rep3	live	25.71
OS18	Rep3	live	14.44
OS18	Rep3	live	1.67
OS18	Rep3	live	87.17
OS18	Rep3	live	53.38
OS18	Rep3	live	11.99
OS18	Rep3	live	20.63
OS18	Rep3	live	21.23
OS18	Rep3	live	62.67
OS18	Rep3	live	24.38
OS18	Rep3	live	4.49
OS18	Rep3	live	5.34
OS18	Rep3	live	49.89
OS18	Rep3	live	22.16
OS18	Rep3	live	10.01
OS18	Rep3	live	21.5
OS18	Rep3	live	45.3
OS18	Rep3	live	17.14
OS18	Rep3	live	17.76
OS18	Rep3	live	10.45
OS18	Rep3	live	21.74
OS18	Rep3	live	18.12
OS18	Rep3	live	30.7
OS18	Rep3	live	25
OS18	Rep3	live	51.23
OS18	Rep3	live	10.43
OS18	Rep3	live	4.87
OS18	Rep3	live	25.52
OS18	Rep3	live	41.52
OS18	Rep3	live	23.23
OS18	Rep3	live	13.48
OS18	Rep3	live	60
OS18	Rep3	live	48.04
OS18	Rep3	live	23.75
OS18	Rep3	live	19.94
OS18	Rep3	live	7.18

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep3	live	27.84
OS18	Rep3	live	7.99
OS18	Rep3	live	4.76
OS18	Rep3	live	10.35
OS18	Rep3	live	29.89
OS18	Rep3	live	23.36
OS18	Rep3	live	4.99
OS18	Rep3	live	23.5
OS18	Rep3	live	11.93
OS18	Rep3	live	50.66
OS18	Rep3	live	27.58
OS18	Rep3	live	19.16
OS18	Rep3	live	32.58
OS18	Rep3	live	8.24
OS18	Rep3	live	33.75
OS18	Rep3	live	61.07
OS18	Rep3	live	28.68
OS18	Rep3	live	19.84
OS18	Rep3	live	13.63
OS18	Rep3	live	29.24
OS18	Rep3	live	22.42
OS18	Rep3	live	10.26
OS18	Rep3	live	14.71
OS18	Rep3	live	10.2
OS18	Rep3	live	78.27
OS18	Rep3	live	61.98
OS18	Rep3	live	14.03
OS18	Rep3	live	31.88
OS18	Rep3	live	56.02
OS18	Rep3	live	5.48
OS18	Rep3	live	16.82
OS18	Rep3	live	9.23
OS18	Rep3	live	12.66
OS18	Rep3	live	24.64
OS18	Rep3	live	30.12
OS18	Rep3	live	4.9
OS18	Rep3	live	27.83
OS18	Rep3	live	44.85
OS18	Rep3	live	48.54
OS18	Rep3	live	74.49
OS18	Rep3	live	7.82

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep3	live	12.42
OS18	Rep3	live	41.18
OS18	Rep3	live	50.55
OS18	Rep3	live	3.66
OS18	Rep3	live	78.87
OS18	Rep3	live	9.86
OS18	Rep3	live	19.1
OS18	Rep3	live	18.08
OS18	Rep3	live	20.6
OS18	Rep3	live	18.4
OS18	Rep3	live	19.1
OS18	Rep3	live	45.57
OS18	Rep3	live	34.18
OS18	Rep3	live	4.93
OS18	Rep3	live	48.98
OS18	Rep3	live	20.28
OS18	Rep3	live	29.69
OS18	Rep3	live	7.4
OS18	Rep3	live	27.2
OS18	Rep3	live	20.88
OS18	Rep3	live	78.67
OS18	Rep3	live	26.61
OS18	Rep3	live	52.2
OS18	Rep3	live	23.82
OS18	Rep3	live	8.25
OS18	Rep3	live	16.65
OS18	Rep3	live	16.12
OS18	Rep3	live	13.69
OS18	Rep3	live	8.25
OS18	Rep3	live	24.36
OS18	Rep3	live	14.19
OS18	Rep3	live	11.54
OS18	Rep3	live	29.5
OS18	Rep3	live	34.57
OS18	Rep3	live	33.36
OS18	Rep3	live	19.77
OS18	Rep3	live	11.13
OS18	Rep3	live	17.21
OS18	Rep3	live	11.61
OS18	Rep3	live	45.51
OS18	Rep3	live	76.61

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep3	live	23.71
OS18	Rep3	live	42
OS18	Rep3	live	36.83
OS18	Rep3	live	56.74
OS18	Rep3	live	5.94
OS18	Rep3	live	13.89
OS18	Rep3	live	9.91
OS18	Rep3	live	34.01
OS18	Rep3	live	2.14
OS18	Rep3	live	13.89
OS18	Rep3	live	32.53
OS18	Rep3	live	8.18
OS18	Rep3	live	4.78
OS18	Rep3	live	11.1
OS18	Rep3	live	24.4
OS18	Rep3	live	48.13
OS18	Rep3	live	12.04
OS18	Rep3	live	14.92
OS18	Rep3	live	41.42
OS18	Rep3	live	19.94
OS18	Rep3	live	29.45
OS18	Rep3	live	49.66
OS18	Rep3	live	42.17
OS18	Rep3	live	6.7
OS18	Rep3	live	9.29
OS18	Rep3	live	55.12
OS18	Rep3	live	44.05
OS18	Rep3	live	6.7
OS18	Rep3	live	8.29
OS18	Rep3	live	6.52
OS18	Rep3	live	18.21
OS18	Rep3	live	71.64
OS18	Rep3	live	5.89
OS18	Rep3	live	31.8
OS18	Rep3	live	21.42
OS18	Rep3	live	41.8
OS18	Rep3	live	19.52
OS18	Rep3	live	17.22
OS18	Rep3	live	48.51
OS18	Rep3	live	10.07
OS18	Rep3	live	9.43

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep3	live	30.54
OS18	Rep3	live	27.62
OS18	Rep3	live	23.86
OS18	Rep3	live	69.89
OS18	Rep3	live	22.32
OS18	Rep3	live	18.35
OS18	Rep3	live	43.13
OS18	Rep3	live	5.99
OS18	Rep3	live	19.27
OS18	Rep3	live	13.99
OS18	Rep3	live	24.16
OS18	Rep3	live	59.44
OS18	Rep3	live	32.98
OS18	Rep3	live	11
OS18	Rep3	live	14.57
OS18	Rep3	live	7.01
OS18	Rep3	live	13.59
OS18	Rep3	live	9.07
OS18	Rep3	live	11.13
OS18	Rep3	live	12.63
OS18	Rep3	live	8.38
OS18	Rep3	live	57.09
OS18	Rep3	live	19.08
OS18	Rep3	live	9.18
OS18	Rep3	live	14.9
OS18	Rep3	live	52.71
OS18	Rep3	live	11.23
OS18	Rep3	live	13.55
OS18	Rep3	live	35.22
OS18	Rep3	live	24.64
OS18	Rep3	live	25.56
OS18	Rep3	live	3.85
OS18	Rep3	live	6.79
OS18	Rep3	live	24.64
OS18	Rep3	live	8.57
OS18	Rep3	live	5.29
OS18	Rep3	live	23.22
OS18	Rep3	live	85.19
OS18	Rep3	live	3.26
OS18	Rep3	live	8.48
OS18	Rep3	live	13.87

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep3	live	2.08
OS18	Rep3	live	65.23
OS18	Rep3	live	13.87
OS18	Rep3	live	18.25
OS18	Rep3	live	13.27
OS18	Rep3	live	9.9
OS18	Rep3	live	46.93
OS18	Rep3	live	13.27
OS18	Rep3	live	36.18
OS18	Rep3	live	13.5
OS18	Rep3	live	29.32
OS18	Rep3	live	14.99
OS18	Rep3	live	8
OS18	Rep3	live	10.8
OS18	Rep3	live	4.86
OS18	Rep3	live	48.27
OS18	Rep3	live	57.83
OS18	Rep3	live	39.43
OS18	Rep3	live	19.23
OS18	Rep3	live	43.56
OS18	Rep3	live	22.34
OS18	Rep3	live	23.74
OS18	Rep3	live	31.29
OS18	Rep3	live	42.25
OS18	Rep3	live	38.71
OS18	Rep3	live	27.88
OS18	Rep3	live	6.67
OS18	Rep3	live	11.89
OS18	Rep3	live	42.68
OS18	Rep3	live	9.78
OS18	Rep3	live	60.03
OS18	Rep3	live	19.16
OS18	Rep3	live	29.3
OS18	Rep3	live	18.9
OS18	Rep3	live	9.91
OS18	Rep3	live	33.66
OS18	Rep3	live	26.95
OS18	Rep3	live	5.78
OS18	Rep3	live	17.76
OS18	Rep3	live	5.78
OS18	Rep3	live	20.13

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS18	Rep3	live	13.77
OS18	Rep3	live	24.48
OS18	Rep3	live	8.22
OS18	Rep3	live	25.81
OS18	Rep3	live	24.99
OS18	Rep3	live	24.95
OS18	Rep3	live	35.85
OS18	Rep3	live	7.49
OS18	Rep3	live	34.57
OS18	Rep3	live	7.49
OS18	Rep3	live	37.72
OS18	Rep3	live	7.22
OS18	Rep3	live	21.98
OS18	Rep3	live	7.22
OS18	Rep3	live	17.78
OS18	Rep3	live	5.75
OS18	Rep3	live	24.56
OS18	Rep3	live	69.48
OS18	Rep3	live	25.31
OS18	Rep3	live	31.83
OS18	Rep3	live	50.74
OS4	Rep1	dead	52.14
OS4	Rep1	dead	31.1
OS4	Rep1	dead	106.22
OS4	Rep1	live	17.88
OS4	Rep1	live	153.86
OS4	Rep1	live	130.07
OS4	Rep1	live	85.54
OS4	Rep1	live	84.58
OS4	Rep1	live	78.83
OS4	Rep1	live	6.16
OS4	Rep1	live	87.25
OS4	Rep1	live	24.96
OS4	Rep1	live	5.06
OS4	Rep1	live	110.15
OS4	Rep1	live	7.92
OS4	Rep1	live	25.08
OS4	Rep1	live	80.26
OS4	Rep1	live	121.19
OS4	Rep1	live	39.28
OS4	Rep1	live	9.56

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS4	Rep1	live	7.08
OS4	Rep1	live	19.23
OS4	Rep1	live	87.32
OS4	Rep1	live	37.62
OS4	Rep1	live	51.66
OS4	Rep1	live	6.8
OS4	Rep1	live	93.12
OS4	Rep1	live	9.2
OS4	Rep1	live	50
OS4	Rep1	live	21.34
OS4	Rep1	live	25.19
OS4	Rep1	live	19.22
OS4	Rep1	live	23.18
OS4	Rep1	live	33.18
OS4	Rep1	live	27.73
OS4	Rep1	live	3.78
OS4	Rep1	live	89.69
OS4	Rep1	live	37.65
OS4	Rep1	live	78.11
OS4	Rep1	live	77.45
OS4	Rep1	live	23.74
OS4	Rep1	live	67.49
OS4	Rep1	live	65.12
OS4	Rep1	live	119.1
OS4	Rep1	live	57.15
OS4	Rep1	live	48.88
OS4	Rep1	live	99.77
OS4	Rep1	live	34.76
OS4	Rep1	live	78.83
OS4	Rep1	live	23.69
OS4	Rep1	live	28.38
OS4	Rep1	live	19.06
OS4	Rep1	live	118.43
OS4	Rep1	live	78.68
OS4	Rep1	live	27.28
OS4	Rep1	live	8.41
OS4	Rep1	live	55.35
OS4	Rep1	live	82.54
OS4	Rep1	live	9.5
OS4	Rep1	live	62.3
OS4	Rep1	live	71.52

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS4	Rep1	live	42.69
OS4	Rep1	live	100.67
OS4	Rep1	live	22.53
OS4	Rep1	live	82.49
OS4	Rep1	live	103.44
OS4	Rep1	live	25.2
OS4	Rep1	live	88.25
OS4	Rep1	live	75.82
OS4	Rep1	live	26.02
OS4	Rep1	live	42.78
OS4	Rep1	live	59.85
OS4	Rep1	live	30.64
OS4	Rep1	live	40.57
OS4	Rep1	live	9.48
OS4	Rep1	live	67.34
OS4	Rep1	live	125.31
OS4	Rep1	live	17.58
OS4	Rep1	live	3.27
OS4	Rep1	live	92.66
OS4	Rep1	live	33.24
OS4	Rep2	dead	100.53
OS4	Rep2	dead	35.66
OS4	Rep2	live	74.32
OS4	Rep2	live	120.57
OS4	Rep2	live	78.03
OS4	Rep2	live	79.9
OS4	Rep2	live	34.98
OS4	Rep2	live	4.86
OS4	Rep2	live	63.96
OS4	Rep2	live	63.39
OS4	Rep2	live	32.3
OS4	Rep2	live	61.93
OS4	Rep2	live	110.84
OS4	Rep2	live	17.92
OS4	Rep2	live	83.86
OS4	Rep2	live	112.69
OS4	Rep2	live	47.1
OS4	Rep2	live	74.58
OS4	Rep2	live	85.44
OS4	Rep2	live	22.6
OS4	Rep2	live	28.71

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS4	Rep2	live	51.27
OS4	Rep2	live	65.23
OS4	Rep2	live	85.06
OS4	Rep2	live	12.2
OS4	Rep2	live	117.09
OS4	Rep2	live	37.75
OS4	Rep2	live	32.4
OS4	Rep2	live	85.38
OS4	Rep2	live	91.17
OS4	Rep2	live	10.73
OS4	Rep2	live	87
OS4	Rep2	live	60.95
OS4	Rep2	live	53.05
OS4	Rep2	live	10.98
OS4	Rep2	live	92.62
OS4	Rep2	live	11.95
OS4	Rep2	live	27.77
OS4	Rep2	live	77.27
OS4	Rep2	live	4.86
OS4	Rep2	live	65.78
OS4	Rep2	live	80.75
OS4	Rep2	live	102.63
OS4	Rep2	live	78.64
OS4	Rep2	live	19.48
OS4	Rep2	live	75.64
OS4	Rep2	live	27.15
OS4	Rep2	live	40.38
OS4	Rep2	live	29.64
OS4	Rep2	live	37.51
OS4	Rep2	live	26.66
OS4	Rep2	live	5.96
OS4	Rep2	live	116.16
OS4	Rep2	live	19.36
OS4	Rep2	live	74.33
OS4	Rep2	live	14.72
OS4	Rep2	live	88.34
OS4	Rep2	live	14.39
OS4	Rep2	live	6.21
OS4	Rep2	live	11.7
OS4	Rep2	live	81.97
OS4	Rep2	live	96.05

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS4	Rep2	live	85.39
OS4	Rep2	live	78.06
OS4	Rep2	live	105.75
OS4	Rep2	live	15.9
OS4	Rep2	live	23.81
OS4	Rep2	live	76.6
OS4	Rep2	live	74.17
OS4	Rep2	live	65.42
OS4	Rep3	dead	104.11
OS4	Rep3	dead	35.82
OS4	Rep3	dead	108.62
OS4	Rep3	dead	74.52
OS4	Rep3	dead	104.47
OS4	Rep3	dead	22.87
OS4	Rep3	dead	48.43
OS4	Rep3	dead	95.91
OS4	Rep3	live	47.57
OS4	Rep3	live	11.09
OS4	Rep3	live	8.24
OS4	Rep3	live	17.47
OS4	Rep3	live	43.11
OS4	Rep3	live	57.75
OS4	Rep3	live	70.64
OS4	Rep3	live	95.98
OS4	Rep3	live	13.38
OS4	Rep3	live	63.78
OS4	Rep3	live	84.36
OS4	Rep3	live	21.37
OS4	Rep3	live	143.48
OS4	Rep3	live	118.11
OS4	Rep3	live	47.22
OS4	Rep3	live	59.81
OS4	Rep3	live	72.96
OS4	Rep3	live	8.11
OS4	Rep3	live	24.45
OS4	Rep3	live	71.29
OS4	Rep3	live	112
OS4	Rep3	live	106.24
OS4	Rep3	live	9.84
OS4	Rep3	live	21.79
OS4	Rep3	live	35.36

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS4	Rep3	live	3.42
OS4	Rep3	live	88.28
OS4	Rep3	live	46.15
OS4	Rep3	live	87.56
OS4	Rep3	live	2.17
OS4	Rep3	live	140.11
OS4	Rep3	live	125.57
OS4	Rep3	live	35.06
OS4	Rep3	live	68.05
OS4	Rep3	live	70.84
OS4	Rep3	live	58.55
OS4	Rep3	live	122.25
OS4	Rep3	live	27.94
OS4	Rep3	live	99.28
OS4	Rep3	live	17.09
OS4	Rep3	live	33.04
OS4	Rep3	live	93.95
OS4	Rep3	live	25.35
OS4	Rep3	live	54.74
OS4	Rep3	live	18.49
OS4	Rep3	live	3.69
OS4	Rep3	live	26.41
OS4	Rep3	live	56.72
OS4	Rep3	live	56.33
OS4	Rep3	live	104.95
OS4	Rep3	live	27.83
OS4	Rep3	live	103.31
OS4	Rep3	live	36.78
OS4	Rep3	live	92.65
OS4	Rep3	live	48.3
OS4	Rep3	live	49.21
OS4	Rep3	live	55.98
OS4	Rep3	live	19.43
OS4	Rep3	live	43.2
OS4	Rep3	live	103.67
OS4	Rep3	live	62.37
OS4	Rep3	live	153.57
OS4	Rep3	live	97.96
OS4	Rep3	live	66.11
OS4	Rep3	live	22.82
OS4	Rep3	live	65.28

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OS4	Rep3	live	4.98
OS4	Rep3	live	7.53
OS4	Rep3	live	77.56
OS4	Rep3	live	39.83
OS4	Rep3	live	4.57
OS4	Rep3	live	69.03
OS4	Rep3	live	19.61
OS4	Rep3	live	12.24
OS4	Rep3	live	30.2
OS4	Rep3	live	13.52
OS4	Rep3	live	83.57
OS4	Rep3	live	66.15
OS4	Rep3	live	87.63
OS4	Rep3	live	72.64
OS4	Rep3	live	23.52
OS4	Rep3	live	85.76
OS4	Rep3	live	83.72
OS4	Rep3	live	52.23
OS4	Rep3	live	45.32
OS4	Rep3	live	83.08
OS4	Rep3	live	10.46
OSB14	Rep1	dead	66.4
OSB14	Rep1	dead	76.63
OSB14	Rep1	dead	92.85
OSB14	Rep1	dead	60.47
OSB14	Rep1	dead	57.52
OSB14	Rep1	live	25.68
OSB14	Rep1	live	93.58
OSB14	Rep1	live	39.37
OSB14	Rep1	live	60.25
OSB14	Rep1	live	45.56
OSB14	Rep1	live	23.79
OSB14	Rep1	live	63.63
OSB14	Rep1	live	82.44
OSB14	Rep1	live	103.98
OSB14	Rep1	live	37.6
OSB14	Rep1	live	64.47
OSB14	Rep1	live	16.67
OSB14	Rep1	live	57.38
OSB14	Rep1	live	102.74
OSB14	Rep1	live	64.48

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB14	Rep1	live	14.07
OSB14	Rep1	live	39.68
OSB14	Rep1	live	9.21
OSB14	Rep1	live	58.52
OSB14	Rep1	live	59.3
OSB14	Rep1	live	51.19
OSB14	Rep1	live	83.29
OSB14	Rep1	live	21.63
OSB14	Rep1	live	35.94
OSB14	Rep1	live	57.87
OSB14	Rep1	live	72.88
OSB14	Rep1	live	64.39
OSB14	Rep1	live	63.45
OSB14	Rep1	live	54.75
OSB14	Rep1	live	90.86
OSB14	Rep1	live	7.95
OSB14	Rep1	live	58.73
OSB14	Rep1	live	76.29
OSB14	Rep1	live	12.91
OSB14	Rep1	live	61.54
OSB14	Rep1	live	9.31
OSB14	Rep1	live	105.26
OSB14	Rep1	live	109.59
OSB14	Rep1	live	55.13
OSB14	Rep1	live	6.26
OSB14	Rep1	live	64.82
OSB14	Rep1	live	24.84
OSB14	Rep1	live	45.09
OSB14	Rep1	live	11.05
OSB14	Rep1	live	58.01
OSB14	Rep1	live	78.14
OSB14	Rep1	live	86.18
OSB14	Rep1	live	65.65
OSB14	Rep1	live	13.97
OSB14	Rep1	live	61.18
OSB14	Rep1	live	98.5
OSB14	Rep1	live	10.43
OSB14	Rep1	live	18.14
OSB14	Rep1	live	20.06
OSB14	Rep1	live	64.59
OSB14	Rep1	live	46.15

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB14	Rep1	live	102.23
OSB14	Rep1	live	16.91
OSB14	Rep1	live	55.71
OSB14	Rep1	live	15.94
OSB14	Rep1	live	41.54
OSB14	Rep1	live	54.85
OSB14	Rep1	live	37.1
OSB14	Rep1	live	13.18
OSB14	Rep1	live	33.97
OSB14	Rep1	live	45.53
OSB14	Rep1	live	71.04
OSB14	Rep1	live	13.18
OSB14	Rep1	live	15.71
OSB14	Rep1	live	57.24
OSB14	Rep1	live	52.92
OSB14	Rep1	live	102.76
OSB14	Rep1	live	12.68
OSB14	Rep1	live	30.48
OSB14	Rep1	live	6.24
OSB14	Rep1	live	92.2
OSB14	Rep1	live	29.55
OSB14	Rep1	live	71.99
OSB14	Rep1	live	61.02
OSB14	Rep1	live	81.56
OSB14	Rep1	live	40.59
OSB14	Rep1	live	18.62
OSB14	Rep1	live	17.04
OSB14	Rep1	live	98.17
OSB14	Rep1	live	36.56
OSB14	Rep1	live	27.29
OSB14	Rep1	live	13.15
OSB14	Rep1	live	74.6
OSB14	Rep1	live	95.89
OSB14	Rep1	live	37.42
OSB14	Rep1	live	13.03
OSB14	Rep1	live	47.4
OSB14	Rep1	live	46.54
OSB14	Rep1	live	13.03
OSB14	Rep1	live	40.41
OSB14	Rep1	live	56.57
OSB14	Rep1	live	54.15

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB14	Rep1	live	83.65
OSB14	Rep1	live	16.3
OSB14	Rep1	live	15.98
OSB14	Rep1	live	12.65
OSB14	Rep1	live	68.24
OSB14	Rep1	live	63.66
OSB14	Rep2	dead	69.23
OSB14	Rep2	dead	85.49
OSB14	Rep2	dead	22.84
OSB14	Rep2	dead	60.82
OSB14	Rep2	dead	43.35
OSB14	Rep2	dead	71.07
OSB14	Rep2	dead	26.54
OSB14	Rep2	live	23.64
OSB14	Rep2	live	12.69
OSB14	Rep2	live	14.33
OSB14	Rep2	live	61.93
OSB14	Rep2	live	39.13
OSB14	Rep2	live	29.55
OSB14	Rep2	live	22.51
OSB14	Rep2	live	12.56
OSB14	Rep2	live	52.52
OSB14	Rep2	live	21.75
OSB14	Rep2	live	89.56
OSB14	Rep2	live	22.06
OSB14	Rep2	live	33.87
OSB14	Rep2	live	13.87
OSB14	Rep2	live	10.42
OSB14	Rep2	live	82.03
OSB14	Rep2	live	15.45
OSB14	Rep2	live	12.75
OSB14	Rep2	live	5.29
OSB14	Rep2	live	16.74
OSB14	Rep2	live	56.61
OSB14	Rep2	live	13.96
OSB14	Rep2	live	8.72
OSB14	Rep2	live	32.07
OSB14	Rep2	live	43.16
OSB14	Rep2	live	22.52
OSB14	Rep2	live	42.79
OSB14	Rep2	live	41.57

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB14	Rep2	live	97.36
OSB14	Rep2	live	97.56
OSB14	Rep2	live	18.39
OSB14	Rep2	live	56.23
OSB14	Rep2	live	60.4
OSB14	Rep2	live	33.09
OSB14	Rep2	live	41
OSB14	Rep2	live	14.28
OSB14	Rep2	live	7.04
OSB14	Rep2	live	29.68
OSB14	Rep2	live	37.6
OSB14	Rep2	live	12.43
OSB14	Rep2	live	32.9
OSB14	Rep2	live	10.14
OSB14	Rep2	live	62.12
OSB14	Rep2	live	86.76
OSB14	Rep2	live	48.18
OSB14	Rep2	live	15.06
OSB14	Rep2	live	5.14
OSB14	Rep2	live	86.57
OSB14	Rep2	live	108.93
OSB14	Rep2	live	26.79
OSB14	Rep2	live	57.48
OSB14	Rep2	live	14.9
OSB14	Rep2	live	65.77
OSB14	Rep2	live	76.25
OSB14	Rep2	live	20.64
OSB14	Rep2	live	73.19
OSB14	Rep2	live	53.55
OSB14	Rep2	live	42.71
OSB14	Rep2	live	87.01
OSB14	Rep2	live	10.5
OSB14	Rep2	live	117.88
OSB14	Rep2	live	87.94
OSB14	Rep2	live	41.85
OSB14	Rep2	live	40.9
OSB14	Rep2	live	16.75
OSB14	Rep2	live	41.54
OSB14	Rep2	live	18.5
OSB14	Rep2	live	76.32
OSB14	Rep2	live	14.31

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB14	Rep2	live	11.39
OSB14	Rep2	live	47.09
OSB14	Rep2	live	26.53
OSB14	Rep2	live	48.22
OSB14	Rep2	live	15.29
OSB14	Rep2	live	6.07
OSB14	Rep2	live	18.22
OSB14	Rep2	live	50.13
OSB14	Rep2	live	15.29
OSB14	Rep2	live	18.33
OSB14	Rep2	live	56.12
OSB14	Rep2	live	5.84
OSB14	Rep2	live	58.75
OSB14	Rep2	live	98.34
OSB14	Rep2	live	20.6
OSB14	Rep2	live	23.27
OSB14	Rep2	live	11.13
OSB14	Rep2	live	2.9
OSB14	Rep2	live	11.61
OSB14	Rep2	live	63.24
OSB14	Rep2	live	51.58
OSB14	Rep2	live	15.8
OSB14	Rep2	live	9.66
OSB14	Rep2	live	58.47
OSB14	Rep2	live	15.63
OSB14	Rep2	live	35.15
OSB14	Rep2	live	32.32
OSB14	Rep2	live	13.27
OSB14	Rep2	live	65.06
OSB14	Rep2	live	18.71
OSB14	Rep2	live	16.9
OSB14	Rep2	live	57.79
OSB14	Rep2	live	66.21
OSB14	Rep2	live	28.49
OSB14	Rep2	live	25.32
OSB14	Rep2	live	37.55
OSB14	Rep2	live	35.06
OSB14	Rep2	live	18.54
OSB14	Rep2	live	7.84
OSB14	Rep2	live	20.95
OSB14	Rep2	live	15.41

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB14	Rep2	live	37.74
OSB14	Rep2	live	51.94
OSB14	Rep2	live	21.11
OSB14	Rep2	live	51.2
OSB14	Rep2	live	60.29
OSB14	Rep2	live	35.63
OSB14	Rep2	live	45.4
OSB14	Rep2	live	16.43
OSB14	Rep2	live	22
OSB14	Rep2	live	40.61
OSB14	Rep2	live	12.61
OSB14	Rep2	live	7.95
OSB14	Rep2	live	47.03
OSB14	Rep2	live	20.93
OSB14	Rep2	live	6.95
OSB14	Rep2	live	46.89
OSB14	Rep2	live	13.04
OSB14	Rep2	live	32.02
OSB14	Rep2	live	11.29
OSB14	Rep2	live	56.54
OSB14	Rep2	live	28.19
OSB14	Rep2	live	53.64
OSB14	Rep2	live	12.89
OSB14	Rep2	live	23.89
OSB14	Rep2	live	88.61
OSB14	Rep2	live	31.34
OSB14	Rep2	live	7.64
OSB14	Rep2	live	40.79
OSB14	Rep2	live	16.02
OSB14	Rep2	live	14.86
OSB14	Rep2	live	26.06
OSB14	Rep2	live	59.56
OSB14	Rep2	live	53.84
OSB14	Rep2	live	14.7
OSB14	Rep2	live	4.41
OSB14	Rep2	live	52.43
OSB14	Rep2	live	22.92
OSB14	Rep2	live	5.77
OSB14	Rep2	live	64.9
OSB14	Rep2	live	55.16
OSB14	Rep2	live	8.15

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB14	Rep2	live	65.47
OSB14	Rep2	live	15.25
OSB14	Rep2	live	3.85
OSB14	Rep2	live	49.08
OSB14	Rep2	live	28.61
OSB14	Rep2	live	53.34
OSB14	Rep2	live	24.53
OSB14	Rep2	live	23.08
OSB14	Rep2	live	32.56
OSB14	Rep2	live	16.11
OSB14	Rep2	live	26.95
OSB14	Rep2	live	26.64
OSB14	Rep2	live	22.95
OSB14	Rep2	live	33.21
OSB14	Rep2	live	16.15
OSB14	Rep2	live	50
OSB14	Rep2	live	48.19
OSB14	Rep2	live	59.57
OSB14	Rep2	live	57.86
OSB14	Rep2	live	29.84
OSB14	Rep2	live	49.77
OSB14	Rep2	live	49.73
OSB14	Rep2	live	20.17
OSB14	Rep2	live	25.52
OSB14	Rep2	live	37.81
OSB14	Rep2	live	43.17
OSB14	Rep2	live	8.61
OSB14	Rep2	live	15.24
OSB14	Rep2	live	6.94
OSB14	Rep2	live	24.81
OSB14	Rep3	dead	64.82
OSB14	Rep3	dead	93.07
OSB14	Rep3	dead	50.9
OSB14	Rep3	live	6.37
OSB14	Rep3	live	9.19
OSB14	Rep3	live	33.99
OSB14	Rep3	live	112.74
OSB14	Rep3	live	6
OSB14	Rep3	live	82.56
OSB14	Rep3	live	33.03
OSB14	Rep3	live	24.34

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB14	Rep3	live	41.8
OSB14	Rep3	live	68.73
OSB14	Rep3	live	55.43
OSB14	Rep3	live	43.95
OSB14	Rep3	live	93.91
OSB14	Rep3	live	1.98
OSB14	Rep3	live	11.61
OSB14	Rep3	live	13.33
OSB14	Rep3	live	26.93
OSB14	Rep3	live	10.01
OSB14	Rep3	live	53.12
OSB14	Rep3	live	45.92
OSB14	Rep3	live	54.94
OSB14	Rep3	live	36.1
OSB14	Rep3	live	55.62
OSB14	Rep3	live	21.43
OSB14	Rep3	live	23.27
OSB14	Rep3	live	22.91
OSB14	Rep3	live	49.95
OSB14	Rep3	live	55.64
OSB14	Rep3	live	17.62
OSB14	Rep3	live	110.2
OSB14	Rep3	live	75.9
OSB14	Rep3	live	44.01
OSB14	Rep3	live	75.47
OSB14	Rep3	live	68.57
OSB14	Rep3	live	25.25
OSB14	Rep3	live	13.06
OSB14	Rep3	live	19.74
OSB14	Rep3	live	90
OSB14	Rep3	live	90.6
OSB14	Rep3	live	6.62
OSB14	Rep3	live	50.28
OSB14	Rep3	live	49.55
OSB14	Rep3	live	13.83
OSB14	Rep3	live	6.13
OSB14	Rep3	live	16.05
OSB14	Rep3	live	18.8
OSB14	Rep3	live	62.33
OSB14	Rep3	live	57.03
OSB14	Rep3	live	80.72

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB14	Rep3	live	66.77
OSB14	Rep3	live	65.57
OSB14	Rep3	live	18.17
OSB14	Rep3	live	63.07
OSB14	Rep3	live	14.21
OSB14	Rep3	live	74.17
OSB14	Rep3	live	80.3
OSB14	Rep3	live	100.24
OSB14	Rep3	live	10.14
OSB14	Rep3	live	57.08
OSB14	Rep3	live	56.49
OSB14	Rep3	live	46.7
OSB14	Rep3	live	10.61
OSB14	Rep3	live	23.88
OSB14	Rep3	live	37.15
OSB14	Rep3	live	38.73
OSB14	Rep3	live	7.74
OSB14	Rep3	live	44.14
OSB14	Rep3	live	65.56
OSB14	Rep3	live	71.48
OSB14	Rep3	live	6.85
OSB14	Rep3	live	61.49
OSB14	Rep3	live	111.69
OSB14	Rep3	live	60.06
OSB14	Rep3	live	98.78
OSB14	Rep3	live	37.11
OSB14	Rep3	live	14.22
OSB14	Rep3	live	15.29
OSB14	Rep3	live	72.37
OSB14	Rep3	live	41.28
OSB14	Rep3	live	90.49
OSB14	Rep3	live	91.25
OSB14	Rep3	live	52.67
OSB14	Rep3	live	19.54
OSB14	Rep3	live	87.72
OSB14	Rep3	live	68.52
OSB14	Rep3	live	44.87
OSB14	Rep3	live	71.6
OSB14	Rep3	live	66.75
OSB14	Rep3	live	28.82
OSB14	Rep3	live	56.09

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB14	Rep3	live	19.88
OSB14	Rep3	live	34.08
OSB14	Rep3	live	61.09
OSB14	Rep3	live	44.54
OSB14	Rep3	live	89.42
OSB14	Rep3	live	15.28
OSB14	Rep3	live	90.74
OSB14	Rep3	live	88.52
OSB14	Rep3	live	20.22
OSB14	Rep3	live	63.86
OSB14	Rep3	live	17.3
OSB14	Rep3	live	60.09
OSB14	Rep3	live	36.59
OSB14	Rep3	live	5.5
OSB14	Rep3	live	17.06
OSB14	Rep3	live	47.12
OSB14	Rep3	live	3
OSB14	Rep3	live	6.48
OSB14	Rep3	live	70.13
OSB14	Rep3	live	4.35
OSB14	Rep3	live	15.41
OSB14	Rep3	live	9.03
OSB14	Rep3	live	82.79
OSB14	Rep3	live	62.34
OSB14	Rep3	live	16.82
OSB14	Rep3	live	29.26
OSB14	Rep3	live	52.75
OSB14	Rep3	live	34.69
OSB14	Rep3	live	12.91
OSB14	Rep3	live	53.29
OSB14	Rep3	live	49.79
OSB14	Rep3	live	55.3
OSB14	Rep3	live	10.88
OSB14	Rep3	live	45.46
OSB14	Rep3	live	26.78
OSB14	Rep3	live	69.53
OSB14	Rep3	live	77.6
OSB14	Rep3	live	35.73
OSB14	Rep3	live	8.4
OSB14	Rep3	live	26.94
OSB14	Rep3	live	14.36

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep1	dead	27.21
OSB2	Rep1	dead	54.25
OSB2	Rep1	dead	62.62
OSB2	Rep1	dead	57.03
OSB2	Rep1	dead	63.96
OSB2	Rep1	dead	82.1
OSB2	Rep1	dead	57.7
OSB2	Rep1	dead	44.9
OSB2	Rep1	dead	37.8
OSB2	Rep1	dead	38.37
OSB2	Rep1	dead	48.61
OSB2	Rep1	dead	50.83
OSB2	Rep1	dead	51.57
OSB2	Rep1	dead	62.29
OSB2	Rep1	live	31.39
OSB2	Rep1	live	45.34
OSB2	Rep1	live	36.81
OSB2	Rep1	live	47.76
OSB2	Rep1	live	52.51
OSB2	Rep1	live	33.05
OSB2	Rep1	live	28.03
OSB2	Rep1	live	56.03
OSB2	Rep1	live	39.88
OSB2	Rep1	live	66.24
OSB2	Rep1	live	51.18
OSB2	Rep1	live	6.22
OSB2	Rep1	live	9.83
OSB2	Rep1	live	74.18
OSB2	Rep1	live	31.42
OSB2	Rep1	live	9.15
OSB2	Rep1	live	26.06
OSB2	Rep1	live	72.66
OSB2	Rep1	live	14.61
OSB2	Rep1	live	68.01
OSB2	Rep1	live	31.6
OSB2	Rep1	live	6.26
OSB2	Rep1	live	77.95
OSB2	Rep1	live	56.57
OSB2	Rep1	live	43.88
OSB2	Rep1	live	26.4
OSB2	Rep1	live	7.82

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep1	live	14.79
OSB2	Rep1	live	16.01
OSB2	Rep1	live	71
OSB2	Rep1	live	51.02
OSB2	Rep1	live	59.61
OSB2	Rep1	live	12.99
OSB2	Rep1	live	43.6
OSB2	Rep1	live	62.8
OSB2	Rep1	live	71.8
OSB2	Rep1	live	42.41
OSB2	Rep1	live	43.48
OSB2	Rep1	live	19.63
OSB2	Rep1	live	64.8
OSB2	Rep1	live	12.55
OSB2	Rep1	live	21.53
OSB2	Rep1	live	42.32
OSB2	Rep1	live	61.45
OSB2	Rep1	live	29.61
OSB2	Rep1	live	55.64
OSB2	Rep1	live	42.31
OSB2	Rep1	live	8.94
OSB2	Rep1	live	32.43
OSB2	Rep1	live	62.45
OSB2	Rep1	live	29.19
OSB2	Rep1	live	40.49
OSB2	Rep1	live	8.55
OSB2	Rep1	live	6.01
OSB2	Rep1	live	47.46
OSB2	Rep1	live	17.85
OSB2	Rep1	live	40.4
OSB2	Rep1	live	61.92
OSB2	Rep1	live	19.74
OSB2	Rep1	live	82
OSB2	Rep1	live	31.19
OSB2	Rep1	live	48.58
OSB2	Rep1	live	19.74
OSB2	Rep1	live	63.43
OSB2	Rep1	live	56.76
OSB2	Rep1	live	26.04
OSB2	Rep1	live	24.13
OSB2	Rep1	live	18.51

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep1	live	64.92
OSB2	Rep1	live	15.37
OSB2	Rep1	live	14.55
OSB2	Rep1	live	37.39
OSB2	Rep1	live	8.2
OSB2	Rep1	live	4.97
OSB2	Rep1	live	26.8
OSB2	Rep1	live	47.79
OSB2	Rep1	live	40.31
OSB2	Rep1	live	66.4
OSB2	Rep1	live	16.57
OSB2	Rep1	live	84.85
OSB2	Rep1	live	41.3
OSB2	Rep1	live	32.91
OSB2	Rep1	live	39.86
OSB2	Rep1	live	36.97
OSB2	Rep1	live	79.75
OSB2	Rep1	live	46.83
OSB2	Rep1	live	24.75
OSB2	Rep1	live	14.06
OSB2	Rep1	live	9.73
OSB2	Rep1	live	33.78
OSB2	Rep1	live	69.51
OSB2	Rep1	live	74.51
OSB2	Rep1	live	42.13
OSB2	Rep1	live	58.47
OSB2	Rep1	live	18.36
OSB2	Rep1	live	35.77
OSB2	Rep1	live	65.45
OSB2	Rep1	live	21.56
OSB2	Rep1	live	76.73
OSB2	Rep1	live	37.13
OSB2	Rep1	live	27.9
OSB2	Rep1	live	15.21
OSB2	Rep1	live	61.58
OSB2	Rep1	live	16.6
OSB2	Rep1	live	25.27
OSB2	Rep1	live	53.29
OSB2	Rep1	live	69.12
OSB2	Rep1	live	28.67
OSB2	Rep1	live	26.94

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep1	live	37.12
OSB2	Rep1	live	56.69
OSB2	Rep1	live	46.16
OSB2	Rep1	live	52.86
OSB2	Rep1	live	20.44
OSB2	Rep1	live	27.53
OSB2	Rep1	live	26.24
OSB2	Rep1	live	43.63
OSB2	Rep1	live	16.4
OSB2	Rep1	live	33.71
OSB2	Rep1	live	18.91
OSB2	Rep1	live	27.68
OSB2	Rep1	live	16.26
OSB2	Rep1	live	20.54
OSB2	Rep1	live	19.77
OSB2	Rep1	live	44.28
OSB2	Rep1	live	49.99
OSB2	Rep1	live	60.48
OSB2	Rep1	live	19.64
OSB2	Rep1	live	14.38
OSB2	Rep2	dead	55.58
OSB2	Rep2	dead	60.95
OSB2	Rep2	live	21.72
OSB2	Rep2	live	85.08
OSB2	Rep2	live	41.48
OSB2	Rep2	live	85.54
OSB2	Rep2	live	44.34
OSB2	Rep2	live	45.85
OSB2	Rep2	live	37.83
OSB2	Rep2	live	10.62
OSB2	Rep2	live	54.3
OSB2	Rep2	live	18.99
OSB2	Rep2	live	37.83
OSB2	Rep2	live	99.74
OSB2	Rep2	live	43.46
OSB2	Rep2	live	62.47
OSB2	Rep2	live	24.78
OSB2	Rep2	live	51.62
OSB2	Rep2	live	99.15
OSB2	Rep2	live	76.14
OSB2	Rep2	live	24.78

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep2	live	29.51
OSB2	Rep2	live	11.81
OSB2	Rep2	live	7.41
OSB2	Rep2	live	32.27
OSB2	Rep2	live	25.59
OSB2	Rep2	live	7.02
OSB2	Rep2	live	56.19
OSB2	Rep2	live	100.01
OSB2	Rep2	live	46.36
OSB2	Rep2	live	56.78
OSB2	Rep2	live	25.28
OSB2	Rep2	live	3.75
OSB2	Rep2	live	23.63
OSB2	Rep2	live	61.52
OSB2	Rep2	live	14.22
OSB2	Rep2	live	51.24
OSB2	Rep2	live	21.3
OSB2	Rep2	live	82.1
OSB2	Rep2	live	11.79
OSB2	Rep2	live	58.12
OSB2	Rep2	live	109.63
OSB2	Rep2	live	65.58
OSB2	Rep2	live	74.31
OSB2	Rep2	live	27.46
OSB2	Rep2	live	36.55
OSB2	Rep2	live	113.94
OSB2	Rep2	live	46.2
OSB2	Rep2	live	31.83
OSB2	Rep2	live	64.71
OSB2	Rep2	live	97.44
OSB2	Rep2	live	51.8
OSB2	Rep2	live	67.74
OSB2	Rep2	live	87.13
OSB2	Rep2	live	47.61
OSB2	Rep2	live	55.77
OSB2	Rep2	live	30.5
OSB2	Rep2	live	39.38
OSB2	Rep2	live	86.52
OSB2	Rep2	live	92.68
OSB2	Rep2	live	56.07
OSB2	Rep2	live	13.07

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep2	live	37.89
OSB2	Rep2	live	4.34
OSB2	Rep2	live	37.37
OSB2	Rep2	live	16.08
OSB2	Rep2	live	70.65
OSB2	Rep2	live	37.24
OSB2	Rep2	live	69.39
OSB2	Rep2	live	12.87
OSB2	Rep2	live	86.24
OSB2	Rep2	live	64.58
OSB2	Rep2	live	21.84
OSB2	Rep2	live	65.96
OSB2	Rep2	live	15.46
OSB2	Rep2	live	49.24
OSB2	Rep2	live	30.95
OSB2	Rep2	live	86.47
OSB2	Rep2	live	30.6
OSB2	Rep2	live	30.13
OSB2	Rep2	live	12.61
OSB2	Rep2	live	82.74
OSB2	Rep2	live	49.61
OSB2	Rep2	live	7.04
OSB2	Rep2	live	67.83
OSB2	Rep2	live	52.38
OSB2	Rep2	live	37.81
OSB2	Rep2	live	11.7
OSB2	Rep2	live	60.34
OSB2	Rep2	live	32.85
OSB2	Rep2	live	36.93
OSB2	Rep2	live	83.09
OSB2	Rep2	live	29.86
OSB2	Rep2	live	56.44
OSB2	Rep2	live	66.31
OSB2	Rep2	live	21.63
OSB2	Rep2	live	81.67
OSB2	Rep2	live	55.57
OSB2	Rep2	live	57.44
OSB2	Rep2	live	7.23
OSB2	Rep2	live	77.06
OSB2	Rep2	live	10.41
OSB2	Rep2	live	20.59

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep2	live	52.11
OSB2	Rep2	live	19.59
OSB2	Rep2	live	60.65
OSB2	Rep2	live	94.62
OSB2	Rep2	live	89.72
OSB2	Rep2	live	85.88
OSB2	Rep2	live	54.72
OSB2	Rep2	live	60.14
OSB2	Rep2	live	44.28
OSB2	Rep2	live	87.97
OSB2	Rep2	live	59.88
OSB2	Rep2	live	16.93
OSB2	Rep2	live	59.88
OSB2	Rep2	live	50.11
OSB2	Rep2	live	30.93
OSB2	Rep2	live	68.37
OSB2	Rep2	live	67.79
OSB2	Rep2	live	48.21
OSB2	Rep2	live	13.06
OSB2	Rep2	live	63.75
OSB2	Rep2	live	39.13
OSB2	Rep2	live	59.61
OSB2	Rep2	live	60.08
OSB2	Rep3	dead	37.97
OSB2	Rep3	dead	54.16
OSB2	Rep3	dead	84.92
OSB2	Rep3	dead	57.69
OSB2	Rep3	dead	47.04
OSB2	Rep3	dead	29.83
OSB2	Rep3	dead	33.93
OSB2	Rep3	dead	64.14
OSB2	Rep3	dead	67.48
OSB2	Rep3	live	27
OSB2	Rep3	live	13.46
OSB2	Rep3	live	43.33
OSB2	Rep3	live	36.39
OSB2	Rep3	live	21.12
OSB2	Rep3	live	70.48
OSB2	Rep3	live	37.34
OSB2	Rep3	live	64.25
OSB2	Rep3	live	33.44

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep3	live	64.7
OSB2	Rep3	live	65.41
OSB2	Rep3	live	14.6
OSB2	Rep3	live	18.18
OSB2	Rep3	live	17.84
OSB2	Rep3	live	50.18
OSB2	Rep3	live	71.91
OSB2	Rep3	live	21.8
OSB2	Rep3	live	17.49
OSB2	Rep3	live	48.02
OSB2	Rep3	live	11.04
OSB2	Rep3	live	9.3
OSB2	Rep3	live	17.49
OSB2	Rep3	live	8.58
OSB2	Rep3	live	47.18
OSB2	Rep3	live	48.46
OSB2	Rep3	live	84.01
OSB2	Rep3	live	6.37
OSB2	Rep3	live	13.1
OSB2	Rep3	live	44.51
OSB2	Rep3	live	15.33
OSB2	Rep3	live	5.05
OSB2	Rep3	live	7.51
OSB2	Rep3	live	12.71
OSB2	Rep3	live	36.4
OSB2	Rep3	live	15.97
OSB2	Rep3	live	37.55
OSB2	Rep3	live	44.17
OSB2	Rep3	live	31.12
OSB2	Rep3	live	15.19
OSB2	Rep3	live	34.88
OSB2	Rep3	live	15.51
OSB2	Rep3	live	64.92
OSB2	Rep3	live	105.54
OSB2	Rep3	live	43.07
OSB2	Rep3	live	69.46
OSB2	Rep3	live	34.61
OSB2	Rep3	live	47.09
OSB2	Rep3	live	31.17
OSB2	Rep3	live	19.65
OSB2	Rep3	live	8.86

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep3	live	49.69
OSB2	Rep3	live	19.89
OSB2	Rep3	live	21.54
OSB2	Rep3	live	61.77
OSB2	Rep3	live	7.87
OSB2	Rep3	live	19.89
OSB2	Rep3	live	10.54
OSB2	Rep3	live	95.17
OSB2	Rep3	live	77.24
OSB2	Rep3	live	41.66
OSB2	Rep3	live	10.54
OSB2	Rep3	live	59.16
OSB2	Rep3	live	44.89
OSB2	Rep3	live	33.57
OSB2	Rep3	live	47.85
OSB2	Rep3	live	29.5
OSB2	Rep3	live	67.13
OSB2	Rep3	live	15.25
OSB2	Rep3	live	24.01
OSB2	Rep3	live	77.57
OSB2	Rep3	live	23.91
OSB2	Rep3	live	33.26
OSB2	Rep3	live	14.87
OSB2	Rep3	live	20.35
OSB2	Rep3	live	48.5
OSB2	Rep3	live	43.86
OSB2	Rep3	live	19.57
OSB2	Rep3	live	38.65
OSB2	Rep3	live	14.99
OSB2	Rep3	live	4.92
OSB2	Rep3	live	56.16
OSB2	Rep3	live	54.31
OSB2	Rep3	live	7.1
OSB2	Rep3	live	68.44
OSB2	Rep3	live	63.63
OSB2	Rep3	live	31.17
OSB2	Rep3	live	76.95
OSB2	Rep3	live	62.38
OSB2	Rep3	live	64.29
OSB2	Rep3	live	71.37
OSB2	Rep3	live	16.55

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep3	live	13.75
OSB2	Rep3	live	31.44
OSB2	Rep3	live	42.99
OSB2	Rep3	live	7.81
OSB2	Rep3	live	48.87
OSB2	Rep3	live	49.89
OSB2	Rep3	live	64.59
OSB2	Rep3	live	38.4
OSB2	Rep3	live	64.18
OSB2	Rep3	live	48
OSB2	Rep3	live	11.52
OSB2	Rep3	live	24.08
OSB2	Rep3	live	14.26
OSB2	Rep3	live	11.52
OSB2	Rep3	live	9.62
OSB2	Rep3	live	14.94
OSB2	Rep3	live	34.84
OSB2	Rep3	live	17.57
OSB2	Rep3	live	59.23
OSB2	Rep3	live	80.74
OSB2	Rep3	live	45.55
OSB2	Rep3	live	43.56
OSB2	Rep3	live	26.65
OSB2	Rep3	live	40.8
OSB2	Rep3	live	59.65
OSB2	Rep3	live	19.51
OSB2	Rep3	live	10.62
OSB2	Rep3	live	22.56
OSB2	Rep3	live	49.49
OSB2	Rep3	live	18.45
OSB2	Rep3	live	36.82
OSB2	Rep3	live	36.66
OSB2	Rep3	live	18.21
OSB2	Rep3	live	68.31
OSB2	Rep3	live	19.38
OSB2	Rep3	live	12.27
OSB2	Rep3	live	25.97
OSB2	Rep3	live	13.27
OSB2	Rep3	live	49.79
OSB2	Rep3	live	25.84
OSB2	Rep3	live	39.26

Section D (Continued): Oyster population metric results. Table displays oyster shell height in millimeters (mm) and if the corresponding oyster was dead vs alive.

Site	Repetition	Live vs. Dead	Shell Height (mm)
OSB2	Rep3	live	26.76
OSB2	Rep3	live	13.54
OSB2	Rep3	live	56.75
OSB2	Rep3	live	7.49
OSB2	Rep3	live	9.6
OSB2	Rep3	live	60.85
OSB2	Rep3	live	26.4
OSB2	Rep3	live	54.76
OSB2	Rep3	live	18.56
OSB2	Rep3	live	46.94
OSB2	Rep3	live	9.35
OSB2	Rep3	live	39.44
OSB2	Rep3	live	63.23
OSB2	Rep3	live	25.49
OSB2	Rep3	live	15.27
OSB2	Rep3	live	8.69
OSB2	Rep3	live	25.92
OSB2	Rep3	live	34.5
OSB2	Rep3	live	54.79
OSB2	Rep3	live	59.52
OSB2	Rep3	live	9.78
OSB2	Rep3	live	48.13
OSB2	Rep3	live	27
OSB2	Rep3	live	59.4
OSB2	Rep3	live	64.51
OSB2	Rep3	live	38.59
OSB2	Rep3	live	21.53
OSB2	Rep3	live	9.48
OSB2	Rep3	live	73.81
OSB2	Rep3	live	21.98

Section E.

Oyster Condition Index Results

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
1	OS4	1	13.3	3.07	9.32	0.74	0.37	2.7	0.37	2.33	4.07	9.10
2	OS4	1	71.92	8.41	47.06	1.41	0.35	8.06	1.06	7	25.41	4.17
3	OS4	1	43.97	8.19	30.87	1.14	0.41	7.78	0.73	7.05	13.39	5.45
4	OS4	1	20.82	3.31	13.45	0.7	0.35	2.96	0.35	2.61	7.53	4.65
5	OS4	1	20.64	4.98	13.67	0.71	0.38	4.6	0.33	4.27	7.12	4.63
6	OS4	1	44.5	7.82	29.13	0.81	0.27	7.55	0.54	7.01	15.71	3.44
7	OS4	1	68.07	11.98	48.01	1.38	0.4	11.58	0.98	10.6	20.50	4.78
8	OS4	1	29.15	6.72	17.05	0.86	0.29	6.43	0.57	5.86	12.37	4.61
9	OS4	1	122.13	12.18	85.7	1.12	0.29	11.89	0.83	11.06	37.23	2.23
10	OS4	1	36.45	8.71	23.62	1.06	0.3	8.41	0.76	7.65	13.11	5.80
11	OS4	1	43.4	6.41	29.37	0.96	0.26	6.15	0.7	5.45	14.34	4.88
12	OS4	1	31.57	5.36	19.42	1.14	0.27	5.09	0.87	4.22	12.42	7.01
13	OS4	1	49.97	5.92	33.3	1.04	0.38	5.54	0.66	4.88	17.04	3.87
14	OS4	1	56.07	6.35	38.3	1.11	0.34	6.01	0.77	5.24	18.16	4.24
15	OS4	1	40.43	5.87	32.65	0.9	0.33	5.54	0.57	4.97	7.95	7.17
16	OS4	2	23.2	3.46	16.8	0.62	0.33	3.13	0.29	2.84	6.54	4.43
17	OS4	2	45.22	10.68	29.14	1.09	0.34	10.34	0.75	9.59	16.43	4.56
18	OS4	2	59.12	7.55	35.93	1.11	0.32	7.23	0.79	6.44	23.70	3.33

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
19	OS4	2	46.77	4.53	36.44	0.78	0.29	4.24	0.49	3.75	10.56	4.64
20	OS4	2	28.35	4.41	19.83	0.7	0.28	4.13	0.42	3.71	8.71	4.82
21	OS4	2	39.57	4.94	29.42	0.76	0.28	4.66	0.48	4.18	10.37	4.63
22	OS4	2	53.04	8.76	37.2	1.2	0.31	8.45	0.89	7.56	16.19	5.50
23	OS4	2	28.85	3.76	21.36	0.73	0.29	3.47	0.44	3.03	7.65	5.75
24	OS4	2	45.55	6.28	30.93	0.97	0.26	6.02	0.71	5.31	14.94	4.75
25	OS4	2	73.69	12.47	48.51	1.84	0.49	11.98	1.35	10.63	25.73	5.25
26	OS4	2	37.27	5.97	27.71	1.04	0.43	5.54	0.61	4.93	9.77	6.24
27	OS4	2	41.15	4.54	24.08	0.83	0.39	4.15	0.44	3.71	17.45	2.52
28	OS4	2	29.26	3.79	18.69	0.81	0.37	3.42	0.44	2.98	10.80	4.07
29	OS4	2	28.32	4.58	18.27	0.91	0.35	4.23	0.56	3.67	10.27	5.45
30	OS4	2	37.9	5.51	25.05	1	0.37	5.14	0.63	4.51	13.13	4.80
31	OS4	3	32	7.06	21.3	0.95	0.38	6.68	0.57	6.11	10.94	5.21
32	OS4	3	63.13	8.24	36.73	1.09	0.38	7.86	0.71	7.15	26.98	2.63
33	OS4	3	47.56	7.52	33.35	1.12	0.41	7.11	0.71	6.4	14.52	4.89
34	OS4	3	42.9	5.94	25.44	1.16	0.36	5.58	0.8	4.78	17.84	4.48
35	OS4	3	26.44	4.49	20.95	1.15	0.43	4.06	0.72	3.34	5.61	12.83
36	OS4	3	32.34	5.41	21.61	1.03	0.41	5	0.62	4.38	10.97	5.65

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
37	OS4	3	20.27	3.51	12.94	0.59	0.27	3.24	0.32	2.92	7.49	4.27
38	OS4	3	42.72	5.76	29.6	0.92	0.31	5.45	0.61	4.84	13.41	4.55
39	OS4	3	38.73	5.45	27.41	1.02	0.36	5.09	0.66	4.43	11.57	5.70
40	OS4	3	53.24	9.7	33.25	1.23	0.39	9.31	0.84	8.47	20.43	4.11
41	OS4	3	53.67	8.47	34.7	1.21	0.42	8.05	0.79	7.26	19.39	4.07
42	OS4	3	40.74	5.4	26.98	1.01	0.34	5.06	0.67	4.39	14.06	4.76
43	OS4	3	28.78	4.53	18.32	1.05	0.43	4.1	0.62	3.48	10.69	5.80
44	OS4	3	57.16	7.22	43.58	1.02	0.34	6.88	0.68	6.2	13.88	4.90
45	OS4	3	27.7	5.24	18.73	0.92	0.44	4.8	0.48	4.32	9.17	5.24
46	OSB14	1	38.13	4.14	27.15	0.81	0.37	3.77	0.44	3.33	11.22	3.92
47	OSB14	1	33.45	4.22	23.96	1.14	0.45	3.77	0.69	3.08	9.70	7.11
48	OSB14	1	75.78	5.61	66.59	1.32	0.37	5.24	0.95	4.29	9.39	10.11
49	OSB14	1	31.54	5.53	22.13	0.74	0.38	5.15	0.36	4.79	9.62	3.74
50	OSB14	1	31.83	5.33	19.91	1.03	0.4	4.93	0.63	4.3	12.18	5.17
51	OSB14	1	45.85	6.18	30.62	1.19	0.37	5.81	0.82	4.99	15.57	5.27
52	OSB14	1	41.25	4.05	33.99	0.88	0.42	3.63	0.46	3.17	7.42	6.20
53	OSB14	1	34.97	5.91	22.9	1.18	0.44	5.47	0.74	4.73	12.34	6.00
54	OSB14	1	47.9	4.85	35.9	0.95	0.44	4.41	0.51	3.9	12.26	4.16

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
55	OSB14	1	35.46	5.18	24.24	0.99	0.42	4.76	0.57	4.19	11.47	4.97
56	OSB14	1	35.97	4.88	27.84	0.88	0.38	4.5	0.5	4	8.31	6.02
57	OSB14	1	47.47	5.15	32.9	1.04	0.48	4.67	0.56	4.11	14.89	3.76
58	OSB14	1	35.75	5.78	25.63	1.02	0.4	5.38	0.62	4.76	10.34	5.99
59	OSB14	1	36.97	6.72	24.91	1.05	0.41	6.31	0.64	5.67	12.33	5.19
60	OSB14	1	40.77	4.66	27.95	0.89	0.45	4.21	0.44	3.77	13.10	3.36
61	OSB14	2	33.06	5.21	22.29	0.9	0.44	4.77	0.46	4.31	11.01	4.18
62	OSB14	2	33.08	5.08	21.31	1.03	0.4	4.68	0.63	4.05	12.03	5.24
63	OSB14	2	51.72	6.82	35.78	0.9	0.45	6.37	0.45	5.92	16.29	2.76
64	OSB14	2	35.03	6.1	24.8	1.01	0.41	5.69	0.6	5.09	10.46	5.74
65	OSB14	2	60.64	8.15	46.58	1.49	0.5	7.65	0.99	6.66	14.37	6.89
66	OSB14	2	59.34	8.65	43.62	1.1	0.42	8.23	0.68	7.55	16.07	4.23
67	OSB14	2	60.93	8.78	46.71	1.21	0.46	8.32	0.75	7.57	14.53	5.16
68	OSB14	2	44.37	5.96	32.12	1.02	0.42	5.54	0.6	4.94	12.52	4.79
69	OSB14	2	56.58	9.02	37.03	1.73	0.42	8.6	1.31	7.29	19.98	6.56
70	OSB14	2	53.46	7.1	36.28	1.39	0.4	6.7	0.99	5.71	17.56	5.64
71	OSB14	2	92.26	11.96	65.73	1.38	0.39	11.57	0.99	10.58	27.11	3.65
72	OSB14	2	56.28	8.68	37.33	1.24	0.41	8.27	0.83	7.44	19.37	4.29

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
73	OSB14	2	47.94	5.57	31.91	1.03	0.45	5.12	0.58	4.54	16.38	3.54
74	OSB14	2	30.85	3.54	22.99	0.8	0.44	3.1	0.36	2.74	8.03	4.48
75	OSB14	2	37.72	5.64	26.5	1.02	0.39	5.25	0.63	4.62	11.47	5.49
76	OSB14	3	51.56	6.65	38.15	1.06	0.46	6.19	0.6	5.59	13.71	4.38
77	OSB14	3	21.46	4.21	14.57	0.76	0.4	3.81	0.36	3.45	7.04	5.11
78	OSB14	3	43.01	6.18	27.81	1.09	0.49	5.69	0.6	5.09	15.53	3.86
79	OSB14	3	48.12	5.23	36.21	1.05	0.46	4.77	0.59	4.18	12.17	4.85
80	OSB14	3	38.51	6.03	27.23	1	0.46	5.57	0.54	5.03	11.53	4.68
81	OSB14	3	29.97	5.98	19.94	1.16	0.42	5.56	0.74	4.82	10.25	7.22
82	OSB14	3	26.33	5	16.92	0.89	0.45	4.55	0.44	4.11	9.62	4.58
83	OSB14	3	38.43	5.65	26.52	1.07	0.45	5.2	0.62	4.58	12.17	5.09
84	OSB14	3	39.82	6.25	27.72	1.14	0.45	5.8	0.69	5.11	12.37	5.58
85	OSB14	3	35.95	5.71	23.26	0.9	0.41	5.3	0.49	4.81	12.97	3.78
86	OSB14	3	34.24	4.7	25.72	1.09	0.42	4.28	0.67	3.61	8.71	7.69
87	OSB14	3	22.39	3.43	14.34	0.71	0.42	3.01	0.29	2.72	8.23	3.52
88	OSB14	3	33.88	5.07	22.37	1.05	0.46	4.61	0.59	4.02	11.76	5.02
89	OSB14	3	27.86	4.76	18.27	0.86	0.44	4.32	0.42	3.9	9.80	4.29
90	OSB14	3	29.3	4.01	21.41	0.87	0.5	3.51	0.37	3.14	8.06	4.59

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
91	OSB2	1	26.97	5.56	18.2	0.92	0.47	5.09	0.45	4.64	8.96	5.02
92	OSB2	1	42.38	7.87	27.73	1.16	0.47	7.4	0.69	6.71	14.97	4.61
93	OSB2	1	38.75	7.13	24.97	1.09	0.48	6.65	0.61	6.04	14.08	4.33
94	OSB2	1	27.49	5.48	17.76	1.05	0.47	5.01	0.58	4.43	9.94	5.83
95	OSB2	1	30.94	6.87	20.41	1.01	0.48	6.39	0.53	5.86	10.76	4.92
96	OSB2	1	37.82	4.72	27.49	0.99	0.43	4.29	0.56	3.73	10.56	5.30
97	OSB2	1	26.03	6.42	16.67	1.11	0.49	5.93	0.62	5.31	9.57	6.48
98	OSB2	1	32.77	6.87	22.57	1	0.51	6.36	0.49	5.87	10.42	4.70
99	OSB2	1	37.26	5.85	26.49	0.98	0.42	5.43	0.56	4.87	11.01	5.09
100	OSB2	1	15.66	3.82	10.12	0.72	0.45	3.37	0.27	3.1	5.66	4.77
101	OSB2	1	33.86	6.1	24.4	0.92	0.42	5.68	0.5	5.18	9.67	5.17
102	OSB2	1	20.05	3.76	12.99	0.77	0.4	3.36	0.37	2.99	7.22	5.13
103	OSB2	1	42.43	7.56	29.56	1.12	0.39	7.17	0.73	6.44	13.15	5.55
104	OSB2	1	25.79	5.47	17.59	0.9	0.41	5.06	0.49	4.57	8.38	5.85
105	OSB2	1	26.38	3.77	18.8	0.87	0.5	3.27	0.37	2.9	7.75	4.78
106	OSB2	2	26.05	5.56	17.73	0.93	0.49	5.07	0.44	4.63	8.50	5.17
107	OSB2	2	23.11	5.11	15.15	0.89	0.43	4.68	0.46	4.22	8.14	5.65
108	OSB2	2	38.36	7.29	25.94	1.16	0.39	6.9	0.77	6.13	12.69	6.07

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
109	OSB2	2	32.52	7.49	23.43	1.1	0.39	7.1	0.71	6.39	9.29	7.64
110	OSB2	2	65.11	9.5	45.7	1.23	0.36	9.14	0.87	8.27	19.84	4.39
111	OSB2	2	20.24	4.12	13.42	0.76	0.4	3.72	0.36	3.36	6.97	5.16
112	OSB2	2	55.18	11.07	39.66	1.32	0.4	10.67	0.92	9.75	15.86	5.80
113	OSB2	2	27.41	5.59	16.75	1.01	0.38	5.21	0.63	4.58	10.89	5.78
114	OSB2	2	51.94	11.52	33.79	1.17	0.48	11.04	0.69	10.35	18.55	3.72
115	OSB2	2	53.2	10.67	34.53	1.45	0.48	10.19	0.97	9.22	19.08	5.08
116	OSB2	2	62.67	8.64	48.64	0.96	0.41	8.23	0.55	7.68	14.34	3.84
117	OSB2	2	45.22	9.76	28.52	1.28	0.43	9.33	0.85	8.48	17.07	4.98
118	OSB2	2	36.48	6.22	25.93	1.08	0.44	5.78	0.64	5.14	10.78	5.94
119	OSB2	2	50.66	6.98	37.21	1.15	0.46	6.52	0.69	5.83	13.75	5.02
120	OSB2	2	36.78	7.38	26.6	1.09	0.43	6.95	0.66	6.29	10.40	6.34
121	OSB2	3	52.52	7.5	39.77	1.19	0.44	7.06	0.75	6.31	13.03	5.76
122	OSB2	3	36.13	6.2	25.98	1.16	0.42	5.78	0.74	5.04	10.37	7.13
123	OSB2	3	53.95	7.19	38.24	1.21	0.42	6.77	0.79	5.98	16.06	4.92
124	OSB2	3	39.8	8.38	27.93	1.03	0.4	7.98	0.63	7.35	12.13	5.19
125	OSB2	3	34.63	6.88	23.86	0.96	0.43	6.45	0.53	5.92	11.01	4.82
126	OSB2	3	34.07	4.93	23.59	0.98	0.41	4.52	0.57	3.95	10.71	5.32

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
127	OSB2	3	44.67	8.42	32.02	1.16	0.45	7.97	0.71	7.26	12.93	5.49
128	OSB2	3	20.08	4	13.62	0.83	0.49	3.51	0.34	3.17	6.60	5.15
129	OSB2	3	26.74	7.58	16.48	1.02	0.4	7.18	0.62	6.56	10.49	5.91
130	OSB2	3	24.76	4.02	19.01	0.76	0.49	3.53	0.27	3.26	5.88	4.59
131	OSB2	3	35.63	5.59	23.23	1.06	0.5	5.09	0.56	4.53	12.67	4.42
132	OSB2	3	55.18	11.18	36.4	1.54	0.44	10.74	1.1	9.64	19.19	5.73
133	OSB2	3	20.05	5.95	12.75	0.94	0.46	5.49	0.48	5.01	7.46	6.43
134	OSB2	3	24.73	6.09	15.08	0.95	0.46	5.63	0.49	5.14	9.86	4.97
135	OSB2	3	25.66	3.79	21.08	0.93	0.38	3.41	0.55	2.86	4.68	11.75
136	OS1	1	37.6	6.3	24.79	1.07	0.41	5.89	0.66	5.23	13.09	5.04
137	OS1	1	47.7	10.98	30.42	1.39	0.42	10.56	0.97	9.59	17.66	5.49
138	OS1	1	39.97	9.64	26.03	1.35	0.4	9.24	0.95	8.29	14.25	6.67
139	OS1	1	57.01	9.08	38.88	1.2	0.4	8.68	0.8	7.88	18.53	4.32
140	OS1	1	88.22	12.24	61.93	1.75	0.4	11.84	1.35	10.49	26.87	5.02
141	OS1	1	48.29	10.22	34.25	1.33	0.4	9.82	0.93	8.89	14.35	6.48
142	OS1	1	31.97	7.35	21.71	1.1	0.42	6.93	0.68	6.25	10.49	6.49
143	OS1	1	36.66	8.18	23.6	1.15	0.39	7.79	0.76	7.03	13.35	5.69
144	OS1	1	37.53	8.41	24.6	1.09	0.37	8.04	0.72	7.32	13.21	5.45

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
145	OS1	1	25.93	5.36	17.29	0.88	0.4	4.96	0.48	4.48	8.83	5.44
146	OS1	1	50.42	7.7	36.82	1.09	0.38	7.32	0.71	6.61	13.90	5.11
147	OS1	1	65.38	11.62	45.94	1.63	0.42	11.2	1.21	9.99	19.87	6.09
148	OS1	1	68.36	9.59	49.77	1.2	0.36	9.23	0.84	8.39	19.00	4.42
149	OS1	1	87.9	9.67	72.47	1.97	0.48	9.19	1.49	7.7	15.77	9.45
150	OS1	1	31.67	6.12	21	1.07	0.44	5.68	0.63	5.05	10.90	5.78
151	OS1	2	33.56	7.68	22.17	1.21	0.37	7.31	0.84	6.47	11.64	7.22
152	OS1	2	38.78	9.52	25.35	1.36	0.39	9.13	0.97	8.16	13.73	7.07
153	OS1	2	64.99	11.09	44.83	1.4	0.41	10.68	0.99	9.69	20.60	4.81
154	OS1	2	29.76	6.78	17.75	1.08	0.4	6.38	0.68	5.7	12.27	5.54
155	OS1	2	39.5	10.99	25.05	1.23	0.45	10.54	0.78	9.76	14.77	5.28
156	OS1	2	46.82	9.93	32.25	1.53	0.44	9.49	1.09	8.4	14.89	7.32
157	OS1	2	69.29	14.66	45.06	1.95	0.44	14.22	1.51	12.71	24.76	6.10
158	OS1	2	46.68	8.43	32.1	1.21	0.38	8.05	0.83	7.22	14.90	5.57
159	OS1	2	51.19	5.84	40.85	0.76	0.37	5.47	0.39	5.08	10.57	3.69
160	OS1	2	39.7	8.92	25.11	1.17	0.37	8.55	0.8	7.75	14.91	5.37
161	OS1	2	28.64	5.58	18.97	0.93	0.33	5.25	0.6	4.65	9.88	6.07
162	OS1	2	48.96	12.45	31.94	1.74	0.43	12.02	1.31	10.71	17.39	7.53

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
163	OS1	2	29.34	6.65	20.68	0.91	0.28	6.37	0.63	5.74	8.85	7.12
164	OS1	2	55.5	8.13	37.41	1.42	0.36	7.77	1.06	6.71	18.49	5.73
165	OS1	2	42.71	9.11	27.85	1.32	0.34	8.77	0.98	7.79	15.19	6.45
166	OS1	3	39.34	8.25	25.51	1.36	0.41	7.84	0.95	6.89	14.13	6.72
167	OS1	3	67.04	8.56	46.83	0.92	0.32	8.24	0.6	7.64	20.65	2.90
168	OS1	3	49.94	10.16	35.62	1.3	0.41	9.75	0.89	8.86	14.64	6.08
169	OS1	3	34.7	7.68	25.08	1.05	0.39	7.29	0.66	6.63	9.83	6.71
170	OS1	3	41.33	7.17	27.71	1.2	0.42	6.75	0.78	5.97	13.92	5.60
171	OS1	3	53.14	9.98	36.78	1.38	0.44	9.54	0.94	8.6	16.72	5.62
172	OS1	3	25.46	6.13	17.11	1	0.46	5.67	0.54	5.13	8.53	6.33
173	OS1	3	50.42	10.59	34.34	1.44	0.46	10.13	0.98	9.15	16.43	5.96
174	OS1	3	34.93	8.26	23.03	1.11	0.45	7.81	0.66	7.15	12.16	5.43
175	OS1	3	25.5	6.7	14.95	1.05	0.44	6.26	0.61	5.65	10.78	5.66
176	OS1	3	27.87	6.53	18.19	1.01	0.4	6.13	0.61	5.52	9.89	6.17
177	OS1	3	35.8	6.99	23.62	0.96	0.39	6.6	0.57	6.03	12.45	4.58
178	OS1	3	35.47	6.1	23.54	1.36	0.41	5.69	0.95	4.74	12.19	7.79
179	OS1	3	47.75	10.75	31.92	1.44	0.38	10.37	1.06	9.31	16.18	6.55
180	OS1	3	39.16	8.42	28.44	1.13	0.36	8.06	0.77	7.29	10.96	7.03

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
181	OS18	1	27.61	5.9	18.69	0.84	0.38	5.52	0.46	5.06	9.12	5.05
182	OS18	1	61.68	10.84	40.86	1.23	0.43	10.41	0.8	9.61	21.28	3.76
183	OS18	1	26.34	5.4	18.61	0.91	0.43	4.97	0.48	4.49	7.90	6.08
184	OS18	1	30.82	5.24	21.22	1.01	0.4	4.84	0.61	4.23	9.81	6.22
185	OS18	1	21.07	4.89	13.47	0.97	0.45	4.44	0.52	3.92	7.77	6.69
186	OS18	1	26.79	3.49	20.05	0.73	0.44	3.05	0.29	2.76	6.89	4.21
187	OS18	1	29.69	4.88	20.47	0.76	0.39	4.49	0.37	4.12	9.42	3.93
188	OS18	1	25.19	4.24	18.11	0.9	0.46	3.78	0.44	3.34	7.24	6.08
189	OS18	1	40.81	4.33	31.65	0.8	0.4	3.93	0.4	3.53	9.36	4.27
190	OS18	1	39.27	6.5	26.84	1	0.35	6.15	0.65	5.5	12.70	5.12
191	OS18	1	33.13	6.51	22.16	0.87	0.38	6.13	0.49	5.64	11.21	4.37
192	OS18	1	23.71	4.82	16.68	0.89	0.4	4.42	0.49	3.93	7.18	6.82
193	OS18	1	47.17	8.33	33.35	1.15	0.39	7.94	0.76	7.18	14.12	5.38
194	OS18	1	34.11	7.92	21.39	1.14	0.42	7.5	0.72	6.78	13.00	5.54
195	OS18	1	53.95	6.94	37.28	1.04	0.37	6.57	0.67	5.9	17.04	3.93
196	OS18	2	27.34	4.38	19.29	0.87	0.42	3.96	0.45	3.51	8.23	5.47
197	OS18	2	23.87	5.93	16.64	0.88	0.38	5.55	0.5	5.05	7.39	6.77
198	OS18	2	28.63	4.95	21.03	1	0.44	4.51	0.56	3.95	7.77	7.21

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
199	OS18	2	25.54	3.95	16.94	0.78	0.37	3.58	0.41	3.17	8.79	4.66
200	OS18	2	33.23	6.36	23.34	1.08	0.41	5.95	0.67	5.28	10.11	6.63
201	OS18	2	40.66	5.42	27.38	1.04	0.38	5.04	0.66	4.38	13.57	4.86
202	OS18	2	25.68	4.3	16.78	1.02	0.37	3.93	0.65	3.28	9.10	7.15
203	OS18	2	38.09	5.31	28.88	0.93	0.36	4.95	0.57	4.38	9.41	6.06
204	OS18	2	24.59	5.97	16.2	1	0.38	5.59	0.62	4.97	8.57	7.23
205	OS18	2	25	4.74	17.88	0.8	0.4	4.34	0.4	3.94	7.28	5.50
206	OS18	2	26.68	5.36	16.41	0.98	0.38	4.98	0.6	4.38	10.50	5.72
207	OS18	2	35.51	5.68	24.6	0.93	0.4	5.28	0.53	4.75	11.15	4.75
208	OS18	2	37.92	6.86	27.73	1.09	0.41	6.45	0.68	5.77	10.41	6.53
209	OS18	2	29.16	6.62	19.99	1	0.41	6.21	0.59	5.62	9.37	6.30
210	OS18	2	48.95	9.83	34.48	1.17	0.39	9.44	0.78	8.66	14.79	5.27
211	OS18	3	22.99	5.78	15.29	0.89	0.39	5.39	0.5	4.89	7.87	6.35
212	OS18	3	23.99	4.56	15.72	0.89	0.45	4.11	0.44	3.67	8.45	5.21
213	OS18	3	20.16	3.93	14.37	0.79	0.43	3.5	0.36	3.14	5.92	6.08
214	OS18	3	22.34	5.19	15.25	1.1	0.45	4.74	0.65	4.09	7.25	8.97
215	OS18	3	35.25	6.56	24.14	1.28	0.47	6.09	0.81	5.28	11.35	7.13
216	OS18	3	26.5	5.38	17.68	0.92	0.44	4.94	0.48	4.46	9.01	5.33

Section E (continued): Oyster condition index results. All weights are in grams (g) and the cavity volume is in milliliters (ml).

Sample Number	Site	Repetition	Whole Oyster (g)	Wet Weight with Boat (g)	Dry Shell Weight (g)	Dry Weight with Boat (g)	Boat Weight (g)	Wet Tissue Weight (g)	Dry Tissue Weight (g)	Wet and Dry Weight Difference (g)	Cavity Volume (ml)	Condition Index
217	OS18	3	23.7	5.46	16.06	0.88	0.42	5.04	0.46	4.58	7.81	5.89
218	OS18	3	41.83	8.07	28.45	1.21	0.43	7.64	0.78	6.86	13.67	5.70
219	OS18	3	17.56	3.93	12.1	1.09	0.46	3.47	0.63	2.84	5.58	11.29
220	OS18	3	32.61	4.27	24.5	0.88	0.43	3.84	0.45	3.39	8.29	5.43
221	OS18	3	27.34	5.23	19.87	0.86	0.39	4.84	0.47	4.37	7.63	6.16
222	OS18	3	22.97	5.19	15.51	0.84	0.43	4.76	0.41	4.35	7.62	5.38
223	OS18	3	22.84	5.42	15.82	0.99	0.42	5	0.57	4.43	7.17	7.94
224	OS18	3	23.98	3.52	16.46	0.82	0.42	3.1	0.4	2.7	7.69	5.20
225	OS18	3	36.7	3.9	30.24	0.86	0.43	3.47	0.43	3.04	6.60	6.51