

## **APPENDIX E: KENTUCKY DIVISION OF WATER (KDOW) ENVIRONMENTAL SERVICES BRANCH (ESB) 2016–2018 FISH TISSUE ANALYTICAL DATA**

Appendix E1: 2016 KDOW ESB Fish Tissue Analytical Reports

Appendix E2: Table E1- Calculation of Phase I and Phase II Adult and Young-of-the-Year Bluegill Selenium Whole-Body Fish Tissue Concentrations

Appendix E3: Table E2- Comparison of Kentucky Environmental Services Branch and Phase I and II Adult and Young-of-the-Year (YOY) Bluegill Tissue Sample Results

Appendix E4: 2018 KDOW ESB Fish Tissue Analytical Reports

## **APPENDIX E: KENTUCKY DIVISION OF WATER (KDOW) ENVIRONMENTAL SERVICES BRANCH (ESB) 2016–2018 FISH TISSUE ANALYTICAL DATA**

Appendix E1: 2016 KDOW ESB Fish Tissue Analytical Reports

Page 1 of 2

# Selenium Study

## FISH TISSUE DATA SHEET

Waterbody: Herrington Lake		Date/Time: 5/16/16
Location: A+ Down Cove		Basin: Kentucky
Site ID: DOW04030007		County: Mercer
Lat./Long. 37.78478 -84.70451		Coll. Method: Boat Electrofisher
Resection of fillets <input type="checkbox"/> Field <input checked="" type="checkbox"/> Lab	Collectors/Notes: After Homogenization, a final dry cycle was done to ensure no moisture G. Stillings, M. Martin, R. Pierce *% moisture not needed for dry weight analysis. w/Bag w/Bag	

Field ID	Fish Species	Length (mm)	Weight (g)	Sex	Age *	Fillet type: (AF, TP, BF) w/whole Body	Fillet Wet Wt. (g)	Bag Wt. (g)	Fillet Dry Wt. (g)	% Moisture
16-001 BG1	Bluegill	166	95				96.11	6.64	31.72	71.97
16-001 BG2	"	138	50				54.87	6.69	19.35	73.72
16-001 BG3	"	150	70				73.13	6.67	24.51	73.16
16-001 BG4	"	150	70				75.16	6.72	24.35	74.24
16-001 BG5	"	150	70				75.06	6.68	25.53	72.43
16-002	Spotted Bass	227	150				152.91	6.63	47.66	71.95
16-003(1)	LMB	232	405	F			166.68	6.66	49.41	73.28
16-003(2)	"	1'	411	"			237.1	6.69	67.01	73.82
16-004(1)	LMB	320	505	F			168.7	6.64	53.10	71.33
16-004(2)							212.4	6.65	71.10	68.68
16-004(3)							131.1	6.63	41.14	72.27
16-005(1)	LMB	327	505	F			223.0	6.68	62.06	74.40
16-005(2)							175.5	6.69	52.62	72.79
16-005(3)							111.8	6.68	37.48	70.70

Resection of fillets by: G. Stillings, M. Martin, R. Pierce	Date: 5/16/16
Homogenization of fillets by: G. Stillings, M. Martin, R. Pierce	Date: 6/18/16
Placed in freezer by:	Date:
Freezer Temp °C:	Time:

\* Aging Method:  Otolith  Scale  Fin  Spine

\* Page 2 of 3 Selenium Study

FISH TISSUE DATA SHEET

Waterbody: Herrington Lake		Date/Time: 5/16/16
Location: @ Dam		Basin Kentucky
Site ID: DOW0403007		County Mercer
Lat. /Long. 37.78478 -84.70451		Coll. Method: Port Electrofisher
Resection of fillets <input type="checkbox"/> Field <input checked="" type="checkbox"/> Lab	Collectors/Notes: G. Stillings, M. Martin, R. Pierce	

Field ID	Fish Species	Length (mm)	Weight (g)	Sex	Age *	Fillet type: (RF, LF, BF) Whole Body	Fillet Wet Wt. (g)	Bag Wt. (g)	Fillet Dry Wt. (g)	% Moisture Not needed for DW analysis
16-006(1)	LMB	380	870	F			228.6	6.66		
16-006(2)							223.8	6.66		
16-006(3)							216.4	6.62		
16-006(4)							193.5 <del>193.7</del>	6.66		
16-006 ovary							15.09	6.68		
16-007(1)		418	1035	M			208.4	6.62		
16-007(2)							234.5	6.59		
16-007(3)							235.4	6.66		
16-007(4)							218.0	6.65		
16-007(5)							139.4	6.64		
16-013 ovary	LMB					ovary	59.48	6.65		
16-014 ovary	LMB					ovary	90.00	6.72		

16-007 Not analyzed

Resection of fillets by: G. Stillings, M. Martin, R. Pierce	Date: 5/16/16 Time:
Homogenization of fillets by: G. Stillings, M. Martin, R. Pierce	Date: 6/1/16 Time:
Placed in freezer by: G. Stillings Freezer Temp °C: -20	Date: 5/16/16 Time:

\* Aging Method:  Otolith  Scale  Fin  Spine

# 3 of 3 Selenium Study

FISH TISSUE DATA SHEET

Waterbody: Herrington Lake		Date/Time: 5/16/16
Location: Residential Cove		Basin Kentucky
Site ID: DOW		County Mercer
Lat. /Long.		Coll. Method: Boat Electrofisher
Resection of fillets <input type="checkbox"/> Field <input checked="" type="checkbox"/> Lab	Collectors/Notes: G. Stillings, M. Martin, R. Pierce	

Field ID	Fish Species	Length (mm)	Weight (g)	Sex	Age *	Fillet type: (RF, LF, BF)	Fillet Wet Wt. (g)	Bag Wt. (g)	Fillet Dry Wt. (g)	% Moisture
16-008	Bluegill	190	155							
"	"	191	150							
"	"	185	160							
16-009	LMB	240	170	M		BF	64.39	6.67		
16-010	LMB	269	240	M		RF	50.73	6.68		
16-011	LMB	312	530	M		RF	40.76	6.58		
16-012	LMB	347	605	M		RF	111.57	6.65		
16-013	LMB	428	1115	F		RF	184.62	6.68		
16-014	LMB	490	1630	F		RF	131.58	6.68		
							131.33	6.69		
16-013	LMB					Ovary	59.48	6.65		
16-014	LMB					Ovary	90.00	6.72		

Ovary collected  
Ovary collected

Plug  
Plug  
Plug  
Plug

Resection of fillets by:

G. Stillings, M. Martin, R. Pierce

Date: 6/13/16  
Time:

Homogenization of fillets by:

Date:  
Time:

Placed in freezer by: G. Stillings  
Freezer Temp °C: -20

Date: 10/12/16  
Time:

\* Aging Method:  Otolith  Scale  Fin  Spine



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02053

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Garrett Stillings

**AKGWA:**

**Delivered By:** Garrett Stillings

**Facility:**

**Received By:** Eric Scott

**Date:** 05/16/2016

**Time:** 0:00

**Sample Matrix:** TISSUE

**Date:** 07/12/2016

**Time:** 09:04

**Date:** 07/12/2016

**Time:** 09:04

**Collection Method:** Grab

**Sample Description:** DOW04030007 L. macrochirus Herrington L

**Sample Type:** Field Sample

**Sample ID:** 16-001BG1

**Container ID:**

**Shipment Temp:** 23.5C

**REPORT OF ANALYSIS**

<u>LABACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOO</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	10.5	mg/Kg DW	0.050	0.020	

<b>Container Preservation Status at Sample Login</b>		
@PG	Container -no pres.	pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

<b>Case Narrative</b>
Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

**Michael Goss, Branch Manager**





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02054

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Garrett Stillings

**AKGWA:**

**Delivered By:** Garrett Stillings

**Facility:**

**Received By:** Eric Scott

**Date:** 05/16/2016

**Time:** 0:00

**Sample Matrix:** TISSUE

**Date:** 07/12/2016

**Time:** 09:04

**Date:** 07/12/2016

**Time:** 09:04

**Collection Method:** Grab

**Sample Description:** DOW04030007 L. macrochirus Herrington L

**Sample Type:** Field Sample

**Sample ID:** 16-001BG2

**Container ID:**

**Shipment Temp:** 23.5C

**REPORT OF ANALYSIS**

<u>LABACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	9.73	mg/Kg DW	0.048	0.019	

<b>Container Preservation Status at Sample Login</b>		
@PG	Container -no pres.	pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

<b>Case Narrative</b>
Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

**Michael Goss, Branch Manager**





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02055

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Garrett Stillings

**AKGWA:**

**Delivered By:** Garrett Stillings

**Facility:**

**Received By:** Eric Scott

**Date:** 05/16/2016

**Time:** 0:00

**Sample Matrix:** TISSUE

**Date:** 07/12/2016

**Time:** 09:04

**Date:** 07/12/2016

**Time:** 09:04

**Collection Method:** Grab

**Sample Description:** DOW04030007 L. macrochirus Herrington L

**Sample Type:** Field Sample

**Sample ID:** 16-001BG3

**Container ID:**

**Shipment Temp:** 23.5C

**REPORT OF ANALYSIS**

<u>LABACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	11.5	mg/Kg DW	0.046	0.019	

**Container Preservation Status at Sample Login**

@PG

Container -no pres.

pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02056

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Garrett Stillings

**AKGWA:**

**Delivered By:** Garrett Stillings

**Facility:**

**Received By:** Eric Scott

**Date:** 05/16/2016 **Time:** 0:00

**Sample Matrix:** TISSUE

**Date:** 07/12/2016 **Time:** 09:04

**Sample Description:** DOW04030007 L. macrochirus Herrington L

**Date:** 07/12/2016 **Time:** 09:04

**Sample ID:** 16-001BG4

**Collection Method:** Grab

**Sample Type:** Field Sample

**Container ID:**

**Shipment Temp:** 23.5C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL	7782-49-2 Selenium	9.77	mg/Kg DW	0.048	0.019	

**Container Preservation Status at Sample Login**

@PG Container -no pres. pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

**Michael Goss, Branch Manager**





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02057

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**Program Code:** A20

**AKGWA:**

**County:** Mercer

**Facility:**

**Collected By:** Garrett Stillings

**Date:** 05/16/2016 **Time:** 0:00

**Delivered By:** Garrett Stillings

**Date:** 07/12/2016 **Time:** 09:04

**Received By:** Eric Scott

**Date:** 07/12/2016 **Time:** 09:04

**Sample Matrix:** TISSUE

**Collection Method:** Grab

**Sample Description:** DOW04030007 L. macrochirus Herrington L

**Sample Type:** Field Sample

**Sample ID:** 16-001BG5

**Container ID:**

**REPORT OF ANALYSIS**

**Shipment Temp:** 23.5C

<u>LABACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOO</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	10.2	mg/Kg DW	0.048	0.019	

**Container Preservation Status at Sample Login**

@PG

Container -no pres.

pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02058

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Garrett Stillings

**AKGWA:**

**Delivered By:** Garrett Stillings

**Facility:**

**Received By:** Eric Scott

**Date:** 05/16/2016

**Time:** 0:00

**Sample Matrix:** TISSUE

**Date:** 07/12/2016

**Time:** 09:04

**Date:** 07/12/2016

**Time:** 09:04

**Collection Method:** Grab

**Sample Description:** DOW04030007 M. punctulatus Herrington L

**Sample Type:** Field Sample

**Sample ID:** 16-002

**Container ID:**

**REPORT OF ANALYSIS**

**Shipment Temp:** 23.5C

<u>LABACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	10.7	mg/Kg DW	0.045	0.018	

<b>Container Preservation Status at Sample Login</b>		
@PG	Container -no pres.	pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

<b>Case Narrative</b>
Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

**Michael Goss, Branch Manager**





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02059

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Garrett Stillings

**AKGWA:**

**Delivered By:** Garrett Stillings

**Facility:**

**Received By:** Eric Scott

**Date:** 05/16/2016 **Time:** 0:00

**Sample Matrix:** TISSUE

**Date:** 07/12/2016 **Time:** 09:04

**Sample Description:** DOW04030007 M. salmoides Herrington L

**Date:** 07/12/2016 **Time:** 09:04

**Sample ID:** 16-003

**Collection Method:** Grab

**Sample Type:** Field Sample

**Container ID:**

**Shipment Temp:** 23.5C

**REPORT OF ANALYSIS**

<u>LABACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL	7782-49-2 Selenium	9.45	mg/Kg DW	0.048	0.019	

**Container Preservation Status at Sample Login**

@PG Container -no pres. pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

**Michael Goss, Branch Manager**





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02060

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**Program Code:** A20

**AKGWA:**

**County:** Mercer

**Facility:**

**Collected By:** Garrett Stillings

**Date:** 05/16/2016 **Time:** 0:00

**Delivered By:** Garrett Stillings

**Date:** 07/12/2016 **Time:** 09:04

**Received By:** Eric Scott

**Date:** 07/12/2016 **Time:** 09:04

**Sample Matrix:** TISSUE

**Collection Method:** Grab

**Sample Description:** DOW04030007 M. salmoides Herrington L

**Sample Type:** Field Sample

**Sample ID:** 16-004

**Container ID:**

**Shipment Temp:** 23.5C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	4.89	mg/Kg DW	0.046	0.019	

<b>Container Preservation Status at Sample Login</b>		
@PG	Container -no pres.	pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

<b>Case Narrative</b>
Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

**Michael Goss, Branch Manager**





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02061

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Garrett Stillings

**AKGWA:**

**Delivered By:** Garrett Stillings

**Facility:**

**Received By:** Eric Scott

**Date:** 05/16/2016

**Time:** 0:00

**Sample Matrix:** TISSUE

**Date:** 07/12/2016

**Time:** 09:04

**Sample Description:** DOW04030007 M. salmoides Herrington L

**Date:** 07/12/2016

**Time:** 09:04

**Sample ID:** 16-005

**Collection Method:** Grab

**Sample Type:** Field Sample

**Container ID:**

**Shipment Temp:** 23.5C

**REPORT OF ANALYSIS**

<u>LABACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	11.7	mg/Kg DW	0.047	0.019	

<b>Container Preservation Status at Sample Login</b>		
@PG	Container -no pres.	pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

<b>Case Narrative</b>
Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

**Michael Goss, Branch Manager**





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02062

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**Program Code:** A20

**AKGWA:**

**County:** Mercer

**Facility:**

**Collected By:** Garrett Stillings

**Date:** 05/16/2016 **Time:** 0:00

**Delivered By:** Garrett Stillings

**Date:** 07/12/2016 **Time:** 09:04

**Received By:** Eric Scott

**Date:** 07/12/2016 **Time:** 09:04

**Sample Matrix:** TISSUE

**Collection Method:** Grab

**Sample Description:** DOW04030007 M. salmoides Herrington L

**Sample Type:** Field Sample

**Sample ID:** 16-006

**Container ID:**

**REPORT OF ANALYSIS**

**Shipment Temp:** 23.5C

<u>LABACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOO</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	10.7	mg/Kg DW	0.046	0.018	

**Container Preservation Status at Sample Login**

@PG Container -no pres. pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02063

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Garrett Stillings

**AKGWA:**

**Delivered By:** Garrett Stillings

**Facility:**

**Received By:** Eric Scott

**Date:** 05/16/2016

**Time:** 0:00

**Sample Matrix:** TISSUE

**Date:** 07/12/2016

**Time:** 09:04

**Date:** 07/12/2016

**Time:** 09:04

**Collection Method:** Grab

**Sample Description:** DOW04030007 M. salmoides Herrington L

**Sample Type:** Field Sample

**Sample ID:** 16-006Ovary

**Container ID:**

**REPORT OF ANALYSIS**

**Shipment Temp:** 23.5C

<u>LABACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	7.93	mg/Kg DW	0.050	0.020	

<b>Container Preservation Status at Sample Login</b>		
@PG	Container -no pres.	pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

<b>Case Narrative</b>
Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

**Michael Goss, Branch Manager**





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02064

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Garrett Stillings

**AKGWA:**

**Delivered By:** Garrett Stillings

**Facility:**

**Received By:** Eric Scott

**Date:** 05/16/2016

**Time:** 0:00

**Sample Matrix:** TISSUE

**Date:** 07/12/2016

**Time:** 09:04

**Date:** 07/12/2016

**Time:** 09:04

**Collection Method:** Grab

**Sample Description:** DOW04030007 M. salmoides Herrington L

**Sample Type:** Field Sample

**Sample ID:** 16-013Ovary

**Container ID:**

**Shipment Temp:** 23.5C

**REPORT OF ANALYSIS**

<u>LABACODE</u>	<u>CASNUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	11.0	mg/Kg DW	0.049	0.020	

**Container Preservation Status at Sample Login**

@PG

Container -no pres.

pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**R. BRUCE SCOTT**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, August 02, 2016**

**Lab Sample Number:** AN02065

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Garrett Stillings

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Garrett Stillings

**AKGWA:**

**Delivered By:** Garrett Stillings

**Facility:**

**Received By:** Eric Scott

**Date:** 05/16/2016

**Time:** 0:00

**Sample Matrix:** TISSUE

**Date:** 07/12/2016

**Time:** 09:04

**Date:** 07/12/2016

**Time:** 09:04

**Collection Method:** Grab

**Sample Description:** DOW04030007 M. salmoides Herrington L

**Sample Type:** Field Sample

**Sample ID:** 16-014Ovary

**Container ID:**

**REPORT OF ANALYSIS**

**Shipment Temp:** 23.5C

<u>LABACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T	SECAL 7782-49-2	Selenium	11.3	mg/Kg DW	0.048	0.019	

**Container Preservation Status at Sample Login**

@PG

Container -no pres.

pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Freeze Dried

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager



## **APPENDIX E: KENTUCKY DIVISION OF WATER (KDOW) ENVIRONMENTAL SERVICES BRANCH (ESB) 2016–2018 FISH TISSUE ANALYTICAL DATA**

Appendix E2: Table E1- Calculation of Phase I and Phase II Adult and Young-of-the-Year Bluegill  
Selenium Whole-Body Fish Tissue Concentrations

Table E1: Calculation of Phase I and II Adult and Young-of-the-Year Bluegill Selenium Whole-Body Fish Tissue Concentrations  
 Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report  
 E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

Sampling Phase	Source	Basis	Sample ID	Portion	Percent Moisture (Ramboll/KU)	Selenium (C <sub>F</sub> and C <sub>R</sub> ) in mg/kg	Weight of portion (W <sub>F</sub> and W <sub>R</sub> in grams)	Weight (W <sub>WB</sub> ) in grams	Selenium Whole-Body Fish Concentration (WBFC) Using Equation 1	
Phase I	Ramboll/ KU	Wet	FF-001(BG)-CI-171004	Fillet	79.2	1.85	75.991	209.753	1.74	
			FWB-001(BG)-CI-171004	Carcass	66.9	1.68	133.762			
			FF-001(BG)-CI-171004-FD	Fillet	78.8	2.15	75.991	209.753	2.00	
			FWB-001(BG)-CI-171004-FD	Carcass	66.9	1.91	133.762			
	KESB		FF-001(BG)-CI-171004	Fillet	79.2	2.19	75.991	209.753	2.08	
			FWB-001(BG)-CI-171004	Carcass	66.9	2.01	133.762			
	Ramboll/ KU		Dry	FF-001(BG)-CI-171004	Fillet	79.2	8.91	75.991	209.753	6.47
				FWB-001(BG)-CI-171004	Carcass	66.9	5.08	133.762		
		FF-001(BG)-CI-171004-FD		Fillet	78.8	10.2	75.991	209.753	7.38	
		FWB-001(BG)-CI-171004-FD		Carcass	66.9	5.78	133.762			
	KESB	FF-001(BG)-CI-171004		Fillet	79.2	10.53	75.991	209.753	7.69	
		FWB-001(BG)-CI-171004		Carcass	66.9	6.07	133.762			
Phase II	Ramboll/ KU	Wet		FWB001(BG)-CI-180615	Whole-Body	76.2	Phase II Analysed as Whole-Body	Phase II Analysed as Whole-Body	219.22	1.26
				YOY-001-UCI		83.3			5.164	4.14
			YOY-002-UCI	82.9		11.279			3.72	
	KESB		FWB001(BG)-CI-180615	76.2		Pending			Pending	
			YOY-001-UCI	83.3						
			YOY-002-UCI	82.9						
	Ramboll/ KU	Dry	FWB001(BG)-CI-180615	76.2		52.2			5.28	
			YOY-001-UCI	83.3		0.864			24.8	
			YOY-002-UCI	82.9		1.93			21.8	
			YOY-001-UCIDUP	76.2		1.13			24.5	
	KESB		FWB001(BG)-CI-180615	76.2		Pending			Pending	
			YOY-001-UCI	83.3						
YOY-002-UCI			82.9							

Notes: \*The Phase II YOY bluegill samples were analyzed as whole-body only.  
 The sample ID includes the sample date, for example "180615" refers to June 15th, 2018 (Phase FWB = Fish Whole-Body  
 Percent Solids = 100 - Percent (%) Moisture  
 mg/kg (DW) = Milligrams per kilogram dry weight  
 mg/kg (WW) = Milligrams per kilogram wet weight  
 Pending = Pending the delivery of laboratory results  
 YOY = Young-of-the-Year  
 UCI = Upper Curds Inlet  
 WBFC = Whole body fish chemical concentration (mg/kg)  
 WBFC Equation 1: WBFC = [(W<sub>F</sub>/ (W<sub>F</sub> + W<sub>R</sub>))] \* C<sub>F</sub> + [(W<sub>R</sub>/ (W<sub>F</sub> + W<sub>R</sub>))] \* C<sub>R</sub>  
 W<sub>F</sub> = Weight of fish fillet (g)  
 W<sub>R</sub> = Weight of fish remains or carcass (g)  
 W<sub>WB</sub> = Weight of Whole-Body (W<sub>F</sub>+W<sub>R</sub>)

BG = Bluegill  
 CI = Curds Inlet  
 Cr = Chemical concentration in remains composite sample (mg/kg)  
 DUP = Duplicate sample  
 (DW) Dry Weight = Concentration in Wet Weight/(1-% solids)  
 ESB = Kentucky Environmental Services Branch  
 FD = Field Duplicate  
 FF = Fish Fillet

## **APPENDIX E: KENTUCKY DIVISION OF WATER (KDOW) ENVIRONMENTAL SERVICES BRANCH (ESB) 2016–2018 FISH TISSUE ANALYTICAL DATA**

Appendix E3: Table E2- Comparison of Kentucky Environmental Services Branch and Phase I and II Adult and Young-of-the-Year (YOY) Bluegill Tissue Sample Results

Table E2: Comparison of Kentucky Environmental Services Branch and Phase I and II Adult and Young-of-the-Year (YOY) Bluegill Tissue Sample Results  
 Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report  
 E.W. Brown Station, Herrington Lake, Mercer County, Kentucky

Species	Project Phase	Sample Identifier	Portion	CAS Number	Constituent	Basis	KY ESB Result (mg/kg)	CAP Sample Result (mg/kg)	Percent Difference			
Bluegill ( <i>Lepomis sp.</i> )	Phase I	FF-001(BG)-CI-171004	Fillet	7440-38-2	Arsenic (total)	Wet	0.103	0.08	22			
						Dry	--	0.39	--			
				7440-43-9	Cadmium	Wet	<0.0186	0.0084	NA			
						Dry	--	0.04	--			
				7782-49-2	Selenium	Wet	2.19	1.85	16			
						Dry	--	8.91	--			
		7440-66-6	Zinc	Wet	9.76	7.45	24					
				Dry	--	35.8	--					
		FWB-001(BG)-CI-171004	Carcass	7440-38-2	Arsenic (total)	Wet	0.302	0.24	21			
						Dry	--	0.71	--			
				7440-43-9	Cadmium	Wet	0.125	0.105	16			
						Dry	--	0.316	--			
	7782-49-2			Selenium	Wet	2.01	1.68	16				
					Dry	--	5.08	--				
	7440-66-6	Zinc	Wet	40.2	27.9	31						
			Dry	--	84.4	--						
	Phase II	FWB001(BG)-CI-180615	Whole-Body	7782-49-2	Selenium	Wet	Pending	1.26	Pending			
						Dry		5.28				
Wet						4.14						
Dry						24.8						
Wet						3.72						
Dry						21.8						
YOY-001-UCI	YOY-002-UCI	Whole-Body	7782-49-2	Selenium	Pending	Pending						
							YOY-001-UCI	YOY-002-UCI	Whole-Body	7782-49-2	Selenium	Pending

Notes:

The Phase II YOY bluegill samples were analyzed as whole-body only.

The sample ID includes the sample date, for example "180615" refers to June 15th, 2018 (Phase II).

- |        |  |         |  |
|--------|--|---------|--|
| BG     | Bluegill                               | mg/kg   | Milligrams per kilogram                    |
| CAP    | Ramboll's Corrective Action Plan       | Pending | Pending the delivery of laboratory results |
| CI     | Curds Inlet                            | UCI     | Upper Curds Inlet                          |
| dry    | dry weight results                     | wet     | wet weight results                         |
| FF     | Fish Fillet                            | YOY     | Young-of-the-Year                          |
| FWB    | Fish whole Body                        | --      | Results from KY ESB were wet weight only   |
| KY ESB | Kentucky Environmental Services Branch |         |  |

## **APPENDIX E: KENTUCKY DIVISION OF WATER (KDOW) ENVIRONMENTAL SERVICES BRANCH (ESB) 2016–2018 FISH TISSUE ANALYTICAL DATA**

Appendix E4: 2018 KDOW ESB Fish Tissue Analytical Reports



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Friday, January 11, 2019**

<b>Lab Sample Number:</b> AP04359	<b>Station/Project ID:</b> 6021	131
<b>To:</b> Division of Water 300 Sower Blvd Frankfort, KY 40601 ATTN: Melanie Arnold	<b>Re:</b> Fish Tissue Monitoring	
<b>County:</b> Mercer	<b>Program Code:</b> A20	
<b>Collected By:</b> David Cravens	<b>AKGWA:</b>	
<b>Delivered By:</b> David Cravens	<b>Facility:</b>	
<b>Received By:</b> Jennifer Clark	<b>Date:</b> 07/19/2018	<b>Time:</b> 0:05
<b>Sample Matrix:</b> FISH-WHOLE	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample Description:</b> DOW04030014 Curds Inlet L macrochirus	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample ID:</b> FT18-129A	<b>Collection Method:</b> Composite	
	<b>Sample Type:</b> Field Sample	
	<b>Container ID:</b>	
	<b>Shipment Temp:</b> 0C	

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	4.70	mg/Kg DW	0.0465	0.0186	
9540		% Moisture	75.2	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Friday, January 11, 2019**

<b>Lab Sample Number:</b> AP04360	<b>Station/Project ID:</b> 6021	131
<b>To:</b> Division of Water 300 Sower Blvd Frankfort, KY 40601 ATTN: Melanie Arnold	<b>Re:</b> Fish Tissue Monitoring	
<b>County:</b> Mercer	<b>Program Code:</b> A20	
<b>Collected By:</b> David Cravens	<b>AKGWA:</b>	
<b>Delivered By:</b> David Cravens	<b>Facility:</b>	
<b>Received By:</b> Jennifer Clark	<b>Date:</b> 07/19/2018	<b>Time:</b> 0:05
<b>Sample Matrix:</b> FISH-WHOLE	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample Description:</b> DOW04030014 Curds Inlet L macrochirus	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample ID:</b> FT18-129B	<b>Collection Method:</b> Composite	
	<b>Sample Type:</b> Field Split	
	<b>Container ID:</b>	
	<b>Shipment Temp:</b> 0C	

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	3.77	mg/Kg DW	0.0470	0.0188	
9540		% Moisture	75.2	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF	Glass 4 oz widemouth jar -frozen	pH not tested
---------	----------------------------------	---------------

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Friday, January 11, 2019**

<b>Lab Sample Number:</b> AP04361	<b>Station/Project ID:</b> 6021	131
<b>To:</b> Division of Water 300 Sower Blvd Frankfort, KY 40601 ATTN: Melanie Arnold	<b>Re:</b> Fish Tissue Monitoring	
<b>County:</b> Mercer	<b>Program Code:</b> A20	
<b>Collected By:</b> David Cravens	<b>AKGWA:</b>	
<b>Delivered By:</b> David Cravens	<b>Facility:</b>	
<b>Received By:</b> Jennifer Clark	<b>Date:</b> 07/19/2018	<b>Time:</b> 0:05
<b>Sample Matrix:</b> FISH-WHOLE	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample Description:</b> DOW04030014 Curds Inlet L macrochirus	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample ID:</b> FT18-130A	<b>Collection Method:</b> Composite	
	<b>Sample Type:</b> Field Sample	
	<b>Container ID:</b>	
	<b>Shipment Temp:</b> 0C	

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	7.14	mg/Kg DW	0.0442	0.0177	
9540		% Moisture	75.4	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Friday, January 11, 2019**

<b>Lab Sample Number:</b> AP04362	<b>Station/Project ID:</b> 6021	131
<b>To:</b> Division of Water 300 Sower Blvd Frankfort, KY 40601 ATTN: Melanie Arnold	<b>Re:</b> Fish Tissue Monitoring	
<b>County:</b> Mercer	<b>Program Code:</b> A20	
<b>Collected By:</b> David Cravens	<b>AKGWA:</b>	
<b>Delivered By:</b> David Cravens	<b>Facility:</b>	
<b>Received By:</b> Jennifer Clark	<b>Date:</b> 07/19/2018	<b>Time:</b> 0:05
<b>Sample Matrix:</b> FISH-WHOLE	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample Description:</b> DOW04030014 Curds Inlet L macrochirus	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample ID:</b> FT18-130B	<b>Collection Method:</b> Composite	
	<b>Sample Type:</b> Field Split	
	<b>Container ID:</b>	
	<b>Shipment Temp:</b> 0C	

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	7.16	mg/Kg DW	0.0455	0.0182	
9540		% Moisture	75.4	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Friday, January 11, 2019**

<b>Lab Sample Number:</b> AP04363	<b>Station/Project ID:</b> 6024	131
<b>To:</b> Division of Water 300 Sower Blvd Frankfort, KY 40601 ATTN: Melanie Arnold	<b>Re:</b> Fish Tissue Monitoring	
<b>County:</b> Garrard	<b>Program Code:</b> A20	
<b>Collected By:</b> David Cravens	<b>AKGWA:</b>	
<b>Delivered By:</b> David Cravens	<b>Facility:</b>	
<b>Received By:</b> Jennifer Clark	<b>Date:</b> 07/19/2018	<b>Time:</b> 2:45
<b>Sample Matrix:</b> FISH-WHOLE	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample Description:</b> DOW04030017 Rocky Fk (Run) L macrochirus	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample ID:</b> FT18-138A	<b>Collection Method:</b> Composite	
	<b>Sample Type:</b> Field Sample	
	<b>Container ID:</b>	
	<b>Shipment Temp:</b> 0C	

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	3.01	mg/Kg DW	0.0452	0.0181	
9540		% Moisture	74.5	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Friday, January 11, 2019**

<b>Lab Sample Number:</b> AP04364	<b>Station/Project ID:</b> 6024	131
<b>To:</b> Division of Water 300 Sower Blvd Frankfort, KY 40601 ATTN: Melanie Arnold	<b>Re:</b> Fish Tissue Monitoring	
<b>County:</b> Garrard	<b>Program Code:</b> A20	
<b>Collected By:</b> David Cravens	<b>AKGWA:</b>	
<b>Delivered By:</b> David Cravens	<b>Facility:</b>	
<b>Received By:</b> Jennifer Clark	<b>Date:</b> 07/19/2018	<b>Time:</b> 2:45
<b>Sample Matrix:</b> FISH-WHOLE	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample Description:</b> DOW04030017 Rocky Fk (Run) L macrochirus	<b>Date:</b> 12/03/2018	<b>Time:</b> 15:20
<b>Sample ID:</b> FT18-138B	<b>Collection Method:</b> Composite	
	<b>Sample Type:</b> Field Split	
	<b>Container ID:</b>	
	<b>Shipment Temp:</b> 0C	

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	3.04	mg/Kg DW	0.0480	0.0192	
9540		% Moisture	74.5	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF	Glass 4 oz widemouth jar -frozen	pH not tested
---------	----------------------------------	---------------

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Monday, January 14, 2019**

**Lab Sample Number:** AQ00001

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** David Cravens

**AKGWA:**

**Delivered By:** David Cravens

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 1:30

**Sample Matrix:** FISH-WHOLE

**Date:** 01/03/2019

**Time:** 14:39

**Date:** 01/03/2019

**Time:** 14:39

**Collection Method:** Composite

**Sample Description:** DOW04030007 Herrington nr Dam L macrochi

**Sample Type:** Field Sample

**Sample ID:** FT18-113A

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.77	mg/Kg DW	0.0322	0.0129	
9540		% Moisture	75.4	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Monday, January 14, 2019**

**Lab Sample Number:** AQ00002

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** David Cravens

**AKGWA:**

**Delivered By:** David Cravens

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 1:30

**Sample Matrix:** FISH-WHOLE

**Date:** 01/03/2019

**Time:** 14:39

**Date:** 01/03/2019

**Time:** 14:39

**Sample Description:** DOW04030007 Herrington nr Dam L macrochi

**Collection Method:** Composite

**Sample Type:** Field Split

**Sample ID:** FT18-113B

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	3.99	mg/Kg DW	0.0380	0.0152	
9540		% Moisture	75.4	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Monday, January 14, 2019**

**Lab Sample Number:** AQ00003

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** David Cravens

**AKGWA:**

**Delivered By:** David Cravens

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 19:55

**Sample Matrix:** FISH-WHOLE

**Date:** 01/03/2019

**Time:** 14:39

**Date:** 01/03/2019

**Time:** 14:39

**Sample Description:** DOW04030015 Herrington HQ Inlet L macroc

**Collection Method:** Composite

**Sample Type:** Field Sample

**Sample ID:** FT18-119A

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.20	mg/Kg DW	0.0460	0.0184	
9540		% Moisture	73.4	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Monday, January 14, 2019**

**Lab Sample Number:** AQ00004

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**AKGWA:**

**Collected By:** David Cravens

**Facility:**

**Date:** 07/18/2018      **Time:** 19:55

**Delivered By:** David Cravens

**Date:** 01/03/2019      **Time:** 14:39

**Received By:** Jennifer Clark

**Date:** 01/03/2019      **Time:** 14:39

**Sample Matrix:** FISH-WHOLE

**Collection Method:** Composite

**Sample Description:** DOW04030015 Herrington HQ Inlet L macroc

**Sample Type:** Field Split

**Sample ID:** FT18-119B

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.63	mg/Kg DW	0.0422	0.0169	
9540		% Moisture	73.4	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Monday, January 14, 2019**

**Lab Sample Number:** AQ00005

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** David Cravens

**AKGWA:**

**Delivered By:** David Cravens

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 21:00

**Sample Matrix:** FISH-WHOLE

**Date:** 01/03/2019

**Time:** 14:39

**Date:** 01/03/2019

**Time:** 14:39

**Sample Description:** DOW04030019 Lower Herrington Lk L macroc

**Collection Method:** Composite

**Sample Type:** Field Sample

**Sample ID:** FT18-122A

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.55	mg/Kg DW	0.0465	0.0186	
9540		% Moisture	75.1	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Monday, January 14, 2019**

**Lab Sample Number:** AQ00006

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** David Cravens

**AKGWA:**

**Delivered By:** David Cravens

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 21:00

**Sample Matrix:** FISH-WHOLE

**Date:** 01/03/2019

**Time:** 14:39

**Date:** 01/03/2019

**Time:** 14:39

**Sample Description:** DOW04030019 Lower Herrington Lk L macroc

**Collection Method:** Composite

**Sample Type:** Field Split

**Sample ID:** FT18-122B

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.55	mg/Kg DW	0.0422	0.0169	
9540		% Moisture	75.1	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Monday, January 14, 2019**

**Lab Sample Number:** AQ00007

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** David Cravens

**AKGWA:**

**Delivered By:** David Cravens

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 21:00

**Sample Matrix:** FISH-WHOLE

**Date:** 01/03/2019

**Time:** 14:39

**Date:** 01/03/2019

**Time:** 14:39

**Sample Description:** DOW04030019 Lower Herrington Lk L macroc

**Collection Method:** Composite

**Sample Type:** Field Sample

**Sample ID:** FT18-123A

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.48	mg/Kg DW	0.0375	0.0150	
9540		% Moisture	75.0	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Monday, January 14, 2019**

**Lab Sample Number:** AQ00008

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** David Cravens

**AKGWA:**

**Delivered By:** David Cravens

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 21:00

**Sample Matrix:** FISH-WHOLE

**Date:** 01/03/2019

**Time:** 14:39

**Date:** 01/03/2019

**Time:** 14:39

**Sample Description:** DOW04030019 Lower Herrington Lk L macroc

**Collection Method:** Composite

**Sample Type:** Field Split

**Sample ID:** FT18-123B

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.00	mg/Kg DW	0.0430	0.0172	
9540		% Moisture	75.0	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Environmental Services Branch (ESB) and has been approved for release.

*Original report is on file at ESB*

Report Format: DESFinal

Michael Goss, Branch Manager





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, February 19, 2019**

<b>Lab Sample Number:</b> AQ00267	<b>Station/Project ID:</b> 860	131
<b>To:</b> Division of Water 300 Sower Blvd Frankfort, KY 40601 ATTN: Melanie Arnold	<b>Re:</b> Fish Tissue Monitoring	
<b>County:</b> Mercer	<b>Program Code:</b> A20	
<b>Collected By:</b> David Cravens	<b>AKGWA:</b>	
<b>Delivered By:</b> David Cravens	<b>Facility:</b>	
<b>Received By:</b> Jennifer Clark	<b>Date:</b> 07/19/2018	<b>Time:</b> 1:30
<b>Sample Matrix:</b> FISH-WHOLE	<b>Date:</b> 01/22/2019	<b>Time:</b> 13:22
<b>Sample Description:</b> DOW04030007 Herrington nr dam Lepomis ma	<b>Date:</b> 01/22/2019	<b>Time:</b> 13:22
<b>Sample ID:</b> FT18-114B	<b>Collection Method:</b> Composite	
	<b>Sample Type:</b> Field Split	
	<b>Container ID:</b>	
	<b>Shipment Temp:</b> 0C	

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.02	mg/Kg DW	0.0472	0.0189	
9540		% Moisture	74.2	%	0.0100		

**Container Preservation Status at Sample Login**

@PG	Container -no pres.	pH not tested
-----	---------------------	---------------

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Methyl Mercury Analysis (3350T) has been cancelled.

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, February 19, 2019**

<b>Lab Sample Number:</b> AQ00268	<b>Station/Project ID:</b> 6022	131
<b>To:</b> Division of Water 300 Sower Blvd Frankfort, KY 40601 ATTN: Melanie Arnold	<b>Re:</b> Fish Tissue Monitoring	
<b>County:</b> Mercer	<b>Program Code:</b> A20	
<b>Collected By:</b> David Cravens	<b>AKGWA:</b>	
<b>Delivered By:</b> David Cravens	<b>Facility:</b>	
<b>Received By:</b> Jennifer Clark	<b>Date:</b> 07/18/2018	<b>Time:</b> 19:55
<b>Sample Matrix:</b> FISH-WHOLE	<b>Date:</b> 01/22/2019	<b>Time:</b> 13:22
<b>Sample Description:</b> DOW04030015 Herringon HQ Inlet Lepomis m	<b>Date:</b> 01/22/2019	<b>Time:</b> 13:22
<b>Sample ID:</b> FT18-118A	<b>Collection Method:</b> Composite	
	<b>Sample Type:</b> Field Sample	
	<b>Container ID:</b>	
	<b>Shipment Temp:</b> 0C	

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	4.15	mg/Kg DW	0.0495	0.0198	
9540		% Moisture	74.0	%	0.0100		

**Container Preservation Status at Sample Login**

@PG	Container -no pres.	pH not tested
-----	---------------------	---------------

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Methyl Mercury Analysis (3350T) has been cancelled.

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, February 19, 2019**

**Lab Sample Number:** AQ00269      **Station/Project ID:** 6022      131  
**To:** Division of Water      **Re:** Fish Tissue Monitoring  
 300 Sower Blvd  
 Frankfort, KY 40601  
 ATTN: Melanie Arnold  
**Program Code:** A20  
**AKGWA:**  
**County:** Mercer      **Facility:**  
**Collected By:** David Cravens      **Date:** 07/18/2018      **Time:** 19:55  
**Delivered By:** David Cravens      **Date:** 01/22/2019      **Time:** 13:22  
**Received By:** Jennifer Clark      **Date:** 01/22/2019      **Time:** 13:22  
**Sample Matrix:** FISH-WHOLE      **Collection Method:** Composite  
**Sample Description:** DOW04030015 Herringon HQ Inlet Lepomis m      **Sample Type:** Field Split  
**Sample ID:** FT18-118B      **Container ID:**

**REPORT OF ANALYSIS**

**Shipment Temp:** 0C

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	4.12	mg/Kg DW	0.0465	0.0186	
9540		% Moisture	74.0	%	0.0100		

**Container Preservation Status at Sample Login**

@PG      Container -no pres.      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Methyl Mercury Analysis (3350T) has been cancelled.

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, February 19, 2019**

<b>Lab Sample Number:</b> AQ00270	<b>Station/Project ID:</b> 6024	131
<b>To:</b> Division of Water 300 Sower Blvd Frankfort, KY 40601 ATTN: Melanie Arnold	<b>Re:</b> Fish Tissue Monitoring	
<b>County:</b> Garrard	<b>Program Code:</b> A20	
<b>Collected By:</b> David Cravens	<b>AKGWA:</b>	
<b>Delivered By:</b> David Cravens	<b>Facility:</b>	
<b>Received By:</b> Jennifer Clark	<b>Date:</b> 07/19/2018	<b>Time:</b> 2:45
<b>Sample Matrix:</b> FISH-WHOLE	<b>Date:</b> 01/22/2019	<b>Time:</b> 13:22
<b>Sample Description:</b> DOW04030017 Herrington Rocky Fk Lepomis	<b>Date:</b> 01/22/2019	<b>Time:</b> 13:22
<b>Sample ID:</b> FT18-139A	<b>Collection Method:</b> Composite	
	<b>Sample Type:</b> Field Sample	
	<b>Container ID:</b>	
	<b>Shipment Temp:</b> 0C	

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.78	mg/Kg DW	0.0482	0.0193	
9540		% Moisture	73.9	%	0.0100		

**Container Preservation Status at Sample Login**

@PG	Container -no pres.	pH not tested
-----	---------------------	---------------

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

Methyl Mercury Analysis (3350T) has been cancelled.

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Thursday, February 28, 2019**

<b>Lab Sample Number:</b> AQ00271	<b>Station/Project ID:</b> 6024	131
<b>To:</b> Division of Water 300 Sower Blvd Frankfort, KY 40601 ATTN: Melanie Arnold	<b>Re:</b> Fish Tissue Monitoring	
<b>County:</b> Garrard	<b>Program Code:</b> A20	
<b>Collected By:</b> David Cravens	<b>AKGWA:</b>	
<b>Delivered By:</b> David Cravens	<b>Facility:</b>	
<b>Received By:</b> Jennifer Clark	<b>Date:</b> 07/19/2018	<b>Time:</b> 2:45
<b>Sample Matrix:</b> FISH-WHOLE	<b>Date:</b> 01/22/2019	<b>Time:</b> 13:22
<b>Sample Description:</b> DOW04030017 Herrington Rocky Fk Lepomis	<b>Date:</b> 01/22/2019	<b>Time:</b> 13:22
<b>Sample ID:</b> FT18-139B	<b>Collection Method:</b> Composite	
	<b>Sample Type:</b> Field Split	
	<b>Container ID:</b>	
	<b>Shipment Temp:</b> 0C	

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.85	mg/Kg DW	0.0460	0.0184	
9540		% Moisture	73.9	%	0.0100		

**Container Preservation Status at Sample Login**

@PG                      Container -no pres.                      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, March 26, 2019**

**Lab Sample Number:** AQ00936

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 0:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/15/2019

**Time:** 14:45

**Date:** 03/15/2019

**Time:** 14:45

**Collection Method:** Grab

**Sample Description:** DOW04030014 Herrington M salmoides

**Sample Type:** Field Sample

**Sample ID:** FT18-131

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	4.16	mg/Kg DW	0.0460	0.0184	
9540		% Moisture	69.2	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, March 26, 2019**

**Lab Sample Number:** AQ00937

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 0:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/15/2019

**Time:** 14:45

**Date:** 03/15/2019

**Time:** 14:45

**Collection Method:** Grab

**Sample Description:** DOW04030014 Herrington M salmoides

**Sample Type:** Field Sample

**Sample ID:** FT18-132

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	5.97	mg/Kg DW	0.0460	0.0184	
9540		% Moisture	69.8	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, March 26, 2019**

**Lab Sample Number:** AQ00938

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 0:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/15/2019

**Time:** 14:45

**Date:** 03/15/2019

**Time:** 14:45

**Collection Method:** Grab

**Sample Description:** DOW04030014 Herrington M salmoides

**Sample Type:** Field Sample

**Sample ID:** FT18-133

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	3.50	mg/Kg DW	0.0490	0.0196	
9540		% Moisture	70.4	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, March 26, 2019**

**Lab Sample Number:** AQ00939

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 0:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/15/2019

**Time:** 14:45

**Sample Description:** DOW04030014 Herrington M salmoides

**Date:** 03/15/2019

**Time:** 14:45

**Sample ID:** FT18-134

**Collection Method:** Grab

**Sample Type:** Field Sample

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	4.03	mg/Kg DW	0.0462	0.0185	
9540		% Moisture	73.6	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, March 26, 2019**

**Lab Sample Number:** AQ00940

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 0:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/15/2019

**Time:** 14:45

**Date:** 03/15/2019

**Time:** 14:45

**Collection Method:** Grab

**Sample Description:** DOW04030014 Herrington M salmoides

**Sample Type:** Field Sample

**Sample ID:** FT18-135

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	5.26	mg/Kg DW	0.0482	0.0193	
9540		% Moisture	71.6	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, March 26, 2019**

**Lab Sample Number:** AQ00941

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 0:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/15/2019

**Time:** 14:45

**Date:** 03/15/2019

**Time:** 14:45

**Collection Method:** Grab

**Sample Description:** DOW04030014 Herrington M chrysops

**Sample Type:** Field Sample

**Sample ID:** FT18-136

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	5.65	mg/Kg DW	0.0480	0.0192	
9540		% Moisture	66.4	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01167

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 1:30

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Collection Method:** Grab

**Sample Description:** DOW04030007 Herrington nr dam M salmoide

**Sample Type:** Field Sample

**Sample ID:** FT18-115

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.62	mg/Kg DW	0.0475	0.0190	
9540		% Moisture	69.0	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01168

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 1:30

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Sample Description:** DOW04030007 Herrington nr dam M salmoide

**Collection Method:** Grab

**Sample Type:** Field Sample

**Sample ID:** FT18-116

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.94	mg/Kg DW	0.0495	0.0198	
9540		% Moisture	69.5	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01169

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 19:55

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Collection Method:** Grab

**Sample Description:** DOW04030015 Herrington@ HQ In M salmoide

**Sample Type:** Field Sample

**Sample ID:** FT18-120

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	4.58	mg/Kg DW	0.0480	0.0192	
9540		% Moisture	70.1	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01170

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 19:55

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Collection Method:** Grab

**Sample Description:** DOW04030015 Herrington @ HQ In I punctat

**Sample Type:** Field Sample

**Sample ID:** FT18-121

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.75	mg/Kg DW	0.0468	0.0187	
9540		% Moisture	73.8	%	0.0100		

**Container Preservation Status at Sample Login**

@G-4OZF      Glass 4 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01171

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 21:00

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Collection Method:** Grab

**Sample Description:** DOW04030019 Herrington RM 6.1 M salmoide

**Sample Type:** Field Sample

**Sample ID:** FT18-127

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.89	mg/Kg DW	0.0485	0.0194	
9540		% Moisture	70.1	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01172

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Garrard

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 2:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Collection Method:** Grab

**Sample Description:** DOW04030017 Herrington Rocky M salmoide

**Sample Type:** Field Sample

**Sample ID:** FT18-140

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	3.81	mg/Kg DW	0.0490	0.0196	
9540		% Moisture	70.7	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01173

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Garrard

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 2:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Collection Method:** Grab

**Sample Description:** DOW04030017 Herrington Rocky M salmoide

**Sample Type:** Field Sample

**Sample ID:** FT18-141

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.30	mg/Kg DW	0.0462	0.0185	
9540		% Moisture	68.4	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01174

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Garrard

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 2:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Sample Description:** DOW04030017 Herrington Rocky M salmoide

**Collection Method:** Grab

**Sample Type:** Field Sample

**Sample ID:** FT18-142

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.69	mg/Kg DW	0.0485	0.0194	
9540		% Moisture	69.3	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01175

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 1:30

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Collection Method:** Grab

**Sample Description:** DOW04030007 Herrington nr dam M salmoide

**Sample Type:** Field Sample

**Sample ID:** FT18-117

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.12	mg/Kg DW	0.0485	0.0194	
9540		% Moisture	70.1	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01176

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Garrard

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 2:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Sample Description:** DOW04030017 Herrington Rocky M salmoide

**Collection Method:** Grab

**Sample Type:** Field Sample

**Sample ID:** FT18-143

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	3.48	mg/Kg DW	0.0470	0.0188	
9540		% Moisture	70.7	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Tuesday, April 02, 2019**

**Lab Sample Number:** AQ01177

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Garrard

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/19/2018

**Time:** 2:45

**Sample Matrix:** FISH-WHOLE

**Date:** 03/25/2019

**Time:** 12:55

**Date:** 03/25/2019

**Time:** 12:55

**Collection Method:** Grab

**Sample Description:** DOW04030017 Herrington Rocky M salmoide

**Sample Type:** Field Sample

**Sample ID:** FT18-144

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	5.85	mg/Kg DW	0.0485	0.0194	
9540		% Moisture	68.4	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Wednesday, April 10, 2019**

**Lab Sample Number:** AQ01343

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**Program Code:** A20

**AKGWA:**

**County:** Mercer

**Facility:**

**Collected By:** Rodney Pierce

**Date:** 07/19/2018

**Time:** 0:05

**Delivered By:** Rodney Pierce

**Date:** 03/29/2019

**Time:** 10:20

**Received By:** Jennifer Clark

**Date:** 03/29/2019

**Time:** 10:20

**Sample Matrix:** FISH-WHOLE

**Collection Method:** Grab

**Sample Description:** DOW04030014 Herrington M chrysops x saxa

**Sample Type:** Field Sample

**Sample ID:** FT18-137

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.90	mg/Kg DW	0.0472	0.0189	
9540		% Moisture	66.2	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Wednesday, April 10, 2019**

**Lab Sample Number:** AQ01344

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 21:00

**Sample Matrix:** FISH-WHOLE

**Date:** 03/29/2019

**Time:** 10:20

**Date:** 03/29/2019

**Time:** 10:20

**Collection Method:** Grab

**Sample Description:** DOW04030019 Herrington M salmoides

**Sample Type:** Field Sample

**Sample ID:** FT18-124

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	1.95	mg/Kg DW	0.0475	0.0190	
9540		% Moisture	70.7	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Wednesday, April 10, 2019**

**Lab Sample Number:** AQ01345

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 21:00

**Sample Matrix:** FISH-WHOLE

**Date:** 03/29/2019

**Time:** 10:20

**Date:** 03/29/2019

**Time:** 10:20

**Collection Method:** Grab

**Sample Description:** DOW04030019 Herrington M salmoides

**Sample Type:** Field Sample

**Sample ID:** FT18-125

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	3.06	mg/Kg DW	0.0490	0.0196	
9540		% Moisture	70.5	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director



**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Wednesday, April 10, 2019**

**Lab Sample Number:** AQ01346

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 21:00

**Sample Matrix:** FISH-WHOLE

**Date:** 03/29/2019

**Time:** 10:20

**Date:** 03/29/2019

**Time:** 10:20

**Collection Method:** Grab

**Sample Description:** DOW04030019 Herrington M salmoides

**Sample Type:** Field Sample

**Sample ID:** FT18-126

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	2.33	mg/Kg DW	0.0488	0.0195	
9540		% Moisture	69.8	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director





**MATTHEW G. BEVIN**  
GOVERNOR

**CHARLES G. SNAVELY**  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

**ANTHONY R. HATTON**  
COMMISSIONER

100 SOWER BOULEVARD, STE. 104  
FRANKFORT, KENTUCKY 40601

**Wednesday, April 10, 2019**

**Lab Sample Number:** AQ01347

**Station/Project ID:**

**To:** Division of Water  
300 Sower Blvd  
Frankfort, KY 40601  
ATTN: Melanie Arnold

**Re:** Fish Tissue Monitoring

**County:** Mercer

**Program Code:** A20

**Collected By:** Rodney Pierce

**AKGWA:**

**Delivered By:** Rodney Pierce

**Facility:**

**Received By:** Jennifer Clark

**Date:** 07/18/2018

**Time:** 21:00

**Sample Matrix:** FISH-WHOLE

**Date:** 03/29/2019

**Time:** 10:20

**Date:** 03/29/2019

**Time:** 10:20

**Collection Method:** Grab

**Sample Description:** DOW04030019 Herrington M salmoides

**Sample Type:** Field Sample

**Sample ID:** FT18-128

**Container ID:**

**Shipment Temp:** 0C

**REPORT OF ANALYSIS**

<u>LAB ACODE</u>	<u>CAS NUM</u>	<u>CONSTITUENTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LOQ</u>	<u>LOD</u>	<u>FLAG</u>
\$3130T_SECAL	7782-49-2	Selenium	3.19	mg/Kg DW	0.0480	0.0192	
9540		% Moisture	70.2	%	0.0100		

**Container Preservation Status at Sample Login**

@G-8OZF      Glass 8 oz widemouth jar -frozen      pH not tested

**Unit Description**

DW = Analyzed on a Dry Weight Basis

**Case Narrative**

This report has been prepared and reviewed by personnel within the Department for Environmental Protection Laboratory (DEPLAB) and has been approved for release.

*Original report is on file at DEPLAB*

Report Format: DESFinal

Michael Goss, Laboratory Technical Director