



Arkansas Department of Agriculture Aquaculture Laboratory

Final Fish Inspection Testing Report: 23-AQ111

1 Natural Resources Drive, Little Rock, AR 72205 Phone: 501-823-1730

International Report – Canada, Europe

Sampling Date: November 27, 2023
Processing Date: November 28, 2023
Verification Date: December 27, 2023
Inspection Report Date: January 2, 2024

Production Facility Name: Osage Catfisheries
Contact: Steve Kahrs
Address: 1170 Nichols Rd., Osage Beach,
 MO 65065
Phone: (573) 348-2305

Sample Collector: Dr. Jerry Taylor, DVM, P.O. Box 860, Richland, MO 65556, (573)765-3011.

APHIS-AVIC: Dr. Terry Gosch, 1715 Southridge Dr., Jefferson City, MO 65109, 573-658-9850.

Testing performed: VHSV, SVCV, IPNV, and IHNV, on FHM and BF-2 cells on all fish species; RSIV on GF cells (*Micropterus* and *Morone* species); KHV using qPCR (goldfish and Koi/Carp); observation for signs of EUS on fish. *Key for all abbreviations on the back.*

Fish species	# of samples	Size (cm)	Results from testing performed
BG	60	6.2-8.4	Specific pathogens listed were not detected or observed
RE	60	4.8-7.5	Specific pathogens listed were not detected or observed
CCF	60	7.5-10.4	Specific pathogens listed were not detected or observed
BCF	60	10.6-16.3	Specific pathogens listed were not detected or observed
LMB	60	6.0-7.5	Specific pathogens listed were not detected or observed
BC	60	5.7-10.0	Specific pathogens listed were not detected or observed
FHM	175	2.8-3.9	Specific pathogens listed were not detected or observed
GRS	60	4.9-8.2	Specific pathogens listed were not detected or observed
BGXGRS	60	8.0-11.5	Specific pathogens listed were not detected or observed

Comments: Testing performed according to APHIS-Approved Protocols, OIE regulations, and Bluebook standards. Osage Catfisheries has been fish health tested annually and/or semi-annually for viruses (at least 150 fish per inspection) for more than 10 years. The fish appear healthy and in good condition with no evidence of disease.

Nilima N. Renukdas

Nilima N. Renukdas, Ph.D., AFS/FHS Fish Health Inspector
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Arkansas Department of Agriculture Aquaculture Laboratory

Final Fish Inspection Testing Report: 23-AQ112

1 Natural Resources Drive, Little Rock, AR 72205 Phone: 501-823-1730

Standard Report

Sampling Date: November 27, 2023
Processing Date: November 28, 2023
Verification Date: December 27, 2023
Inspection Report Date: January 2, 2024

Production Facility Name: Osage Catfisheries Inc.
 Bagnell Farms
Contact: Steve Kahrs
Address: 63 HWY V, Eldon, MO 65026
Phone: (573) 348-2305

Sample Collector: Dr. Jerry Taylor, DVM, P.O. Box 860, Richland, MO 65556, (573)765-3011.

APHIS-AVIC: Dr. Terry Gosch, 1715 Southridge Dr., Jefferson City, MO 65109, 573-658-9850.

Testing performed on all fish species: VHSV, SVCV, IHN, and IPNV on FHM and BF-2 cells; BF and ERM on BHI agar; observation for signs of HS.

Other testing performed depending on fish species: LMBV on FHM cells (centrarchids), CCV on CCO cells (Ictalurids), ESC on BHI agar (Ictalurids), STC on BHI-blood agar (tilapia species); *Key for all abbreviations on the back.*

Fish species	# of samples	Size (cm)	Results from testing performed
CAP	150	2.7-4.6	Specific pathogens listed were not detected or observed

Comments: Testing performed according to APHIS-Approved Protocols, OIE regulations, Bluebook standards, and Arkansas regulations. Bagnell Farms has been fish health tested annually and/or semi-annually for viruses (at least 150 fish per inspection) for more than 5 years. The fish appear healthy and in good condition with no evidence of disease.

Nilima N. Renukdas

Nilima N. Renukdas, Ph.D., AFS/FHS Fish Health Inspector
 Email: nilima.renukdas@agriculture.arkansas.gov



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Key to abbreviations – International

Viruses

- VHSV – Viral Hemorrhagic Septicemia Virus
- SVCV – Spring Viremia of Carp Virus
- IHNV – Infectious Hematopoietic Necrosis Virus
- IPNV – Infectious Pancreatic Necrosis Virus
- RSIV – Red Sea Bream Iridovirus
- KHV – Koi Herpes Virus

Parasites

- EUS – Epizootic Ulcerative Syndrome (*Aphanomyces* spp.)

Detection tests

- FHM – Fathead minnow cells (cell line used to grow viruses - sensitive to VHSV, SVCV and IHNV from various fish species)
- BF-2 – Bluegill fin -2 cells (used to grow viruses – sensitive to VHSV and IPNV from various fish species)
- GF – Grunt fin cells (used to grow virus – sensitive to RSIV and tested from *Micropterus* spp. and *Morone* spp. for Canada)
- qPCR – quantitative Polymerase Chain Reaction (specific DNA sequence test for KHV in goldfish and common carp varieties)
- BHI – Brain heart Infusion agar (used to grow bacteria that cause – BF, ERM, and ESC from various fish species), BHI with blood (used to grow *Streptococcus* spp. from Tilapia species)

Fish species

GS	Golden shiner	<i>Notemigonus crysoleucas</i>	LMB	largemouth bass	<i>Micropterus salmoides</i>
FHM	fathead minnow	<i>Pimephales promelas</i>	SMB	smallmouth bass	<i>Micropterus dolomieu</i>
GF	goldfish	<i>Carassius auratus</i>	YP	yellow perch	<i>Perca flavescens</i>
Koi or CAP	koi/common carp	<i>Cyprinus carpio</i>	WE	Walleye	<i>Sander vitreus</i>
GC	grass carp	<i>Ctenopharyngodon idella</i>	CCF	Channel catfish	<i>Ictalurus punctatus</i>
BG	bluegill	<i>Lepomis macrochirus</i>	CCFxBCF	hybrid catfish	<i>Ictalurus punctatus</i> x <i>Ictalurus furcatus</i>
RE	reдеar	<i>Lepomis microlophus</i>	BRB	Brown bullhead	<i>Ameiurus nebulosus</i>
RExBG	hybrid redear	<i>Lepomis microlophus</i> x <i>Lepomis macrochirus</i>	STB	striped bass	<i>Morone saxatilis</i>
GRS	green sunfish	<i>Lepomis cyanellus</i>	WB	white bass	<i>Morone chrysops</i>
BGxGRS	hybrid bluegill	<i>Lepomis macrochirus</i> x <i>Lepomis cyanellus</i>	WBxSTB	Hybrid striped bass	<i>Morone chrysops</i> x <i>Morone saxatilis</i>
PSS	Pumpkin seed sunfish	<i>Lepomis gibbosus</i>	TIL	Tilapia	<i>Oreochromis</i> spp.
BC	black crappie	<i>Pomoxis nigromaculatus</i>	PFE	Paddle fish eggs	<i>Polydon spathula</i>
WC	white crappie	<i>Pomoxis annularis</i>	GAM	Gambusia	<i>Gambusia affinis</i>
BCxWC	hybrid crappie	<i>Pomoxis nigromaculatus</i> x <i>Pomoxis annularis</i>	ES	Emerald shiner	<i>Notropis atherinoides</i>
ESM	Eastern Silvery Minnow	<i>Hybognathus regius</i>			

End of the report



Permit Number: 829815

Date Effective: 05/01/2023 Date Expires: 04/30/2024

Issuing Office:

Department of the Interior
U.S. FISH AND WILDLIFE SERVICE
Office of Law Enforcement
1875 Century Boulevard, Suite 380
Atlanta, GA 30345
Tel: 404-679-7195
Email: permitsEastLE@fws.gov

**LAURA
THOMAS**

Legal Instruments Examiner

Digitally signed by LAURA
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Date: 2023.03.23 15:30:55
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Permittee:

**OSAGE CATFISHERIES INC
1170 NICHOLS ROAD
OSAGE BEACH, MO 65065 US**

Principal Officer: STEVE ANDREW KAHRS , OPERATION MANAGER / CO-OWNER

Authority - Statutes and Regulations: 16 USC 1538(d); 50 CFR 13; 50 CFR 14

Location where authorized activity may be conducted: Any Designated Port per 50 CFR 14 (unless further restricted below).

Reporting Requirements: Licensee is required to maintain records per 50 CFR 13 and 14. Acceptance of this license authorizes inspection of records per 50 CFR 13.

Conditions and Authorizations:

- A. General conditions set out in Subpart D of 50 CFR 13, and specific conditions contained in federal regulations cited above, are hereby made a part of this permit. All activities authorized herein must be carried out in accord with and for the purposes described in the application submitted. Continued validity, or renewal, of this permit is subject to complete and timely compliance with all applicable conditions, including the filing of all required information and reports.
- B. The validity of this permit is also conditioned upon strict observance of all applicable foreign, state, local, tribal, or other federal law.
- C. Valid for use by **permittee** named above.
- D. Licensee is responsible for requesting renewal of license at least 30 days prior to the expiration date as outlined in 50 CFR 13. Service Law Enforcement Officers will not clear shipments presented for import or export under expired licenses.
- E. Licensee is authorized to import/export wildlife and/or wildlife products at the port(s) specified above.
- F. Licensee must comply with all import/export procedures as outlined in 50 CFR 14.