

# Fish Health Inspection Report

**Company:** Blackwater Creek Koi Farms  
**Facility :** Eustis Facility  
**Location:** 30540 State Rd 44  
 Eustis, FL 32736  
 US

**Site Manager:** Joe Pawlak  
**Phone:** (352) 357-4563  
**Water Source:** Well  
**Water Treatment:** None


**Current Inspection:** 05-Mar-14    **Prior Inspections:** 25-Nov-13  
 11-Feb-13  
 14-Nov-12  
 31-Jan-12

**Type of Fish Examined:** Hatchery

**Lab Accession:** M14030604

Species	Lot ID	Age	Number in Lot	Eggs (E) or Fish (F) Origin	Sample Date(s)	*Pathogens - Methods and Results												
						Virus								Parasite				
						OMV	EHNV	IHNV	IPNV	ISAV	KHV	RSIV	SVCV	VHSV	EUS	GYRO	CS	MC
<i>Cyprinus carpio koi</i> koi	M14-135	< 12 mo	64,305	(E) Blackwater Creek Koi Farms (FL)	05-Mar-14				Q24B		Q94B		Q42B	Q42B	D			
									140		140		140	140	140			
									neg		neg		neg	neg	neg			
<i>Carassius auratus</i> goldfish	M14-136	< 12 mo	8,000	(E) Blackwater Creek Koi Farms (FL)	05-Mar-14				Q24B		Q94B		Q42B	Q42B	D			
									35		35		35	35	35			
									neg		neg		neg	neg	neg			

Notes: \* See other side of sheet for explanations of Pathogens - Methods and Results coding  
 All lots were tested according to American Fisheries Society-Fish Health Section's "Suggested Procedures for the Detection and Identification of Certain Finfish and Shellfish Pathogens" (2010) and/or equivalent protocols. \*\*COLLECTION AND TESTING WAS CONDUCTED TO MEET CURRENT IMPORT REQUIREMENTS FOR CANADA\*\*

**Samples Collected By:** Kathleen Hartman , DVM  
**Affiliation:** USDA, APHIS, VS  
**Telephone:** (813) 671-5230  
**Client Reference #:**  
**Inspecting Biologist:**   
 William R. Keleher, Jr., Fish Health Inspector

# FOOTNOTES:

## PATHOGEN ABBREVIATIONS

OMV	Oncorhynchus Masou Virus	Epizootic
EHNV	Hematopoietic Necrosis virus	
IHNV	Infectious Hematopoietic Necrosis virus	
IPNV	Infectious Pancreatic Necrosis virus	
ISAV	Infectious Salmon Anemia virus	
KHV	Koi Herpes virus	
RSIV	Red Sea Bream iridovirus	
SVCV	Spring Viremia of Carp virus	
VHSV	Viral Hemorrhagic Septicemia virus	
EUS	Epizootic ulcerative syndrome	
GYRO	Gyrodactylus salaris	
MC	Myxobolus cerebralis	

In lots of fish less than one year of age, the age is listed in arabic numerals followed by mo. for month; for fish older than one year, the age is expressed in arabic numerals followed by a plus sign to indicate "older than".

Findings are reported in columns from top to bottom for each lot as follows: number of fish examined; methods used; results. Positive results include the number of positive individuals (or pools).

**RESULTS ARE REPORTED AS (-) IF NEGATIVE AND AS # +/- # SAMPLED IF POSITIVE.**

**FOR BKD, APPROXIMATE LEVELS OF INFECTION ARE ALSO REPORTED (e.g., 10/ 50 fields)**

## VIRAL PATHOGENS:

### First letter = sampling method

A = whole fry homogenates(minus head, tail, yolk sac if present)  
B = whole visceral homogenates  
C = kidney/spleen  
D = ovarian fluids  
E = kidney/spleen/heart  
F = kidney/spleen/liver  
G = kidney/spleen/heart/liver/pyloric caeca/gill  
H = kidney/spleen/swim bladder  
I = kidney/spleen/heart/liver  
J = brain/eye  
K = kidney/spleen/pyloric caeca/gill  
L = kidney/spleen/heart/swim bladder  
M= kidney/spleen/liver/swim bladder  
N = kidney/spleen/heart/liver/swim bladder  
O = kidney/spleen/heart/pyloric caeca/gill  
P = kidney/spleen/heart/liver/gill  
Q= Kidney/spleen/heart/gill

### Numbers = continuous cell lines used

1 = GF-1 (grunt fin)  
2 = CHSE-214 (chinook salmon embryo)  
3 = FHM (fathead minnow)  
4 = EPC (epithelioma papillosum cyprini)  
5 = BF-2 (bluegill fry)  
6 = CCO (channel catfish ovary )  
7 = ASK (atlantic salmon kidney)  
8 = SSN-1 (striped snake head )  
9 = KF-1 (koi fin)

### Pooling of samples

A = individual fish  
B = five fish pools  
C = sixty fish pools  
D = Other \_\_\_\_\_

### Confirmatory diagnosis Last letter

H = slide agglutination  
I = direct fluorescent antibody test  
J = indirect fluorescent antibody test  
K = ELISA  
L = immunodot  
M = fluorescent immunoassay  
N = PCR

## PARASITIC PATHOGENS

### Encoded as follows:

A =digestion method  
B = plankton centrifuge method  
C = examination of stained smear  
D = gross examination  
E = PCR  
F = microscopic examination