Fact Sheet

United States Environmental Protection Agency
Region X
1200 Sixth Avenue
Seattle, Washington 98101
(206) 442-1213

Date: November 12, 1974

Application No.: WA-000190-2

FACT SHEET -- PROPOSED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT TO DISCHARGE POLLUTANTS PURSUANT TO THE PROVISIONS OF THE FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972

Leavenworth National Fish Hatchery
U.S. Fish and Wildlife Service
Department of the Interior

has applied for a National Pollutant Discharge Elimination System (NPDES) permit to discharge pollutants pursuant to the provisions of the Federal Water Pollution Control Act Amendments of 1972 (Pub. L. 92-500 (October 18, 1972)), hereinafter referred to as FWPCA. This fact sheet includes (a) the tentative determination of the Environmental Protection Agency (EPA) to issue a permit, (b) information on public comment, public hearing and appeal, (c) the description of current discharge, (d) a listing of tentative effluent limitations, schedules of compliance and other conditions, and (e) a sketch of the location of the discharge. We call your special attention to the technical material presented in the latter part of this document.

This Regional office of the EPA has tentatively determined to issue a permit to discharge to the above listed applicant subject to certain effluent limitations which may require the installation of treatment facilities, schedules of compliance, and other conditions necessary to carry out the provisions of the FWPCA. These proposed limitations, schedules, and conditions are tentative.

Persons wishing to comment on the tentative determinations contained in the proposed permit or wishing to request that a hearing be held may do so within 30 days of the date of this public notice. All written comments received within this 30-day period will be considered in the formulation of final determinations regarding this application. All responses should include the name, address, and telephone number of the writer and a concise statement to inform the Regional Administrator of the exact basis of any comment and the relevant facts upon which it is based. Any person may request a hearing on the draft permit. An informal public hearing to discuss the permit terms and conditions shall be held if the Regional Administrator considers the public response significant.

At least 30 days following the issuance of this notice, the Regional Administrator will make final determinations with respect to these permits. The tentative determinations contained in the draft permit will become the final determinations if no substantial changes are made in them. If the tentative determinations are changed substantially, a public notice of determinations will be issued indicating what changes have been made.

An adjudicatory hearing may be requested within ten (10) days of the receipt of the final determinations. Such request will be granted only if it meets all the requirements of 40 C.F.R. 125.36(b)(2). A copy of 40 C.F.R. 125.36(b) is attached.

Copies of public notice, draft permits and any further information may be requested by writing to the EPA at the above address or by calling (206) 442-1270.

Forms and related documents are on file and may be inspected and copied in Room 11D, 1200 Sixth Avenue, Seattle, Washington 98101, at any time between 8:30 am and 4:00 pm, Monday through Friday. A copying machine is available in the Seattle office of the EPA for public use at a charge of $.20 per copy sheet.

The permit will become effective and be deemed issued 30 days after the final determinations are made, unless a request for adjudicatory hearing is submitted within 10 days of receipt of the final determinations. If the request is granted, any contested permit provisions (or uncontested provisions inseparable from contested provisions) will be ineffective until a resolution of the issues raised by the request. The permittee, however, will be subject to any uncontested provision.

Please bring this information to the attention of persons whom you know would be interested in this matter.

The following materials contain a description of the applicant's discharge, a listing of tentative determinations of effluent limitations, schedules of compliance and other conditions of the permit, and a sketch of the location of the discharge.

TECHNICAL INFORMATION

The applicant operates a fish hatchery to spawn, hatch, and release 70,463 pounds of spring chinook and coho salmon. The hatchery and other facilities are located on Icicle Creek, a tributary of the Wenatchee River, about three miles south of Leavenworth, Washington. The consolidated facilities consist of the ladder and adult holding pens, hatchery room, and seven (7) series of rearing pond/raceways. There is one (1) combined discharge (001) from this complex operation. The combined discharge from the various operations of this facility is directly to Icicle Creek. Wastes from the hatchery and rearing ponds include metabolic byproducts, fecal matter, uneaten fish food and organisms pathogenic to fish.

This operation was originally designed to culture sockeye salmon but the above species are propogated due to temperature, diseases, and other water quality problems which adversely affected sockeye salmon. Concentrations of certain wastes in the effluent are generally small, but are significant because of the large volumes of water necessary to support the cultured fish population. The maximum monthly average weight of fish under production is about 70,500 pounds.

I. Description of Discharges

The applicant has described the waste discharge in the permit application as shown below. The average concentration of suspended solids was reported as 7 mg/l.

Parameter	Intake	Daily Average	Daily Maximum
Flow, gallons per day	12,760	3,143	9,310
pH	7.2	7.2	7.3
Winter Temperature, (°F)	44	44	47
Summer Temperature, (°F)	53	53	63
Biochemical Oxygen Demand (5-day)	1 mg/l	262 lbs/day	510 lbs/day
Chemical Oxygen Demand	3 mg/l	826 lbs/day	1606 lbs/day
Total Suspended Solids	0.3 mg/l	227 lbs/day	442 lbs/day
Total Volatile Solids	0.9 mg/l	340 lbs/day	663 lbs/day
Ammonia (as N)	0.27 mg/l	13 lbs/day	25 lbs/day
Nitrate (as N)	0.05 mg/l	10 lbs/day	20 lbs/day
Total Phosphorus (as P)	0.05 mg/l	7 lbs/day	14 lbs/day
Ortho Phosphorus (as P)	0.01 mg/l	3.5 lbs/day	6.8 lbs/day

2. Proposed Effluent Limitations and Discharge Schedules of Compliance

a. Initial Effluent Limitations

During the period beginning on the effective date of this permit and lasting through June 30, 1977, the permittee is authorized to discharge in accordance with certain limitations. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS	
Total Discharge	Daily Average	Daily Maximum	Instantaneous Maximum	Measurement Frequency	Sample Type
Flow m^3/day (MGD)	N/A	N/A	N/A	Daily	Total
Suspended Solids					
kg/day	831	1087	N/A	1/Month	Composite
(lbs/day)	(1832)	(2396)			
Cleaning Effluent					
Settleable Solids ml/l	N/A	N/A	2.2	1/Week	Grab
Non-Cleaning Effluent					
Settleable Solids ml/l	N/A	N/A	0.2	1/Month	Grab

There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. Final Effluent Limitations

During the period beginning on July 1, 1977 and lasting through the expiration date of this permit, the permittee is authorized to discharge in accordance with certain limitations. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS	
Total Discharge	Daily Average	Daily Maximum	Instantaneous Maximum	Measurement Frequency	Sample Type
Flow m^3/day (MGD)	N/A	N/A	N/A	Daily	Total
Suspended Solids					
kg/day	704	927	N/A	1/Month	Composite
(lbs/day)	(1551)	(2045)			
mg/l	N/A	N/A	15*	1/Month	Grab
Settleable Solids ml/l	0.1	N/A	N/A	2/Month	Grab

Total Discharge	Daily Average	Daily Maximum	Instantaneous Maximum	Measurement Frequency	Sample Type
Cleaning Effluent					
Suspended Solids mg/l	N/A	N/A	15*	2/Month	Grab
Settleable Solids ml/l	N/A	N/A	0.2	1/Week	Grab

*Net allowable over intake.

c. Proposed Special Conditions

The applicant is required to operate the treatment facilities at all times. The applicant is required to monitor his discharges on a regular basis and report the results quarterly. Monitoring results will be available to the public.

3. Applicable Effluent Limitations and Water Quality Standards

The following effluent limitations and water quality standards were applied to the applicant's discharge in the formulation of the proposed determinations:

Effluent limitation guidelines have not yet been promulgated by the Environmental Protection Agency for fish hatcheries and farms. Therefore, the draft developmental document for proposed effluent limitations guidelines and new source performance standards for fish hatcheries and farms (dated April 1974) was used, as modified in subsequent agency review, to establish final effluent limitations based on the best practicable control technology currently available.

Initial effluent limitations are based on the estimated characteristics of the present waste discharge rather than on the discharge description supplied by the applicant. Estimates for the suspended solids discharge were based on the maximum monthly average weight of fish on hand and the raw waste factors of 2.6 and 3.4 pounds of suspended solids per 100 pounds of fish on hand for the daily average and daily maximum discharge, respectivly.

Water quality criteria as established by the State of Washington for the receiving stream are contained in WAC 173-201-010 through 140, Water Quality Standards (June 19, 1973). The receiving stream, Icicle Creek, is classified under these standards as Class A (excellent). Characteristic uses of Class A streams include, but are not limited to, the following: fisheries (including salmonid spawning), wildlife habitat, recreation (including water contact sports), water supply (domestic, industrial, and agricultural), and navigation.

Made changes circled in red 3-13-12
wit' approval of Warren Shanks.

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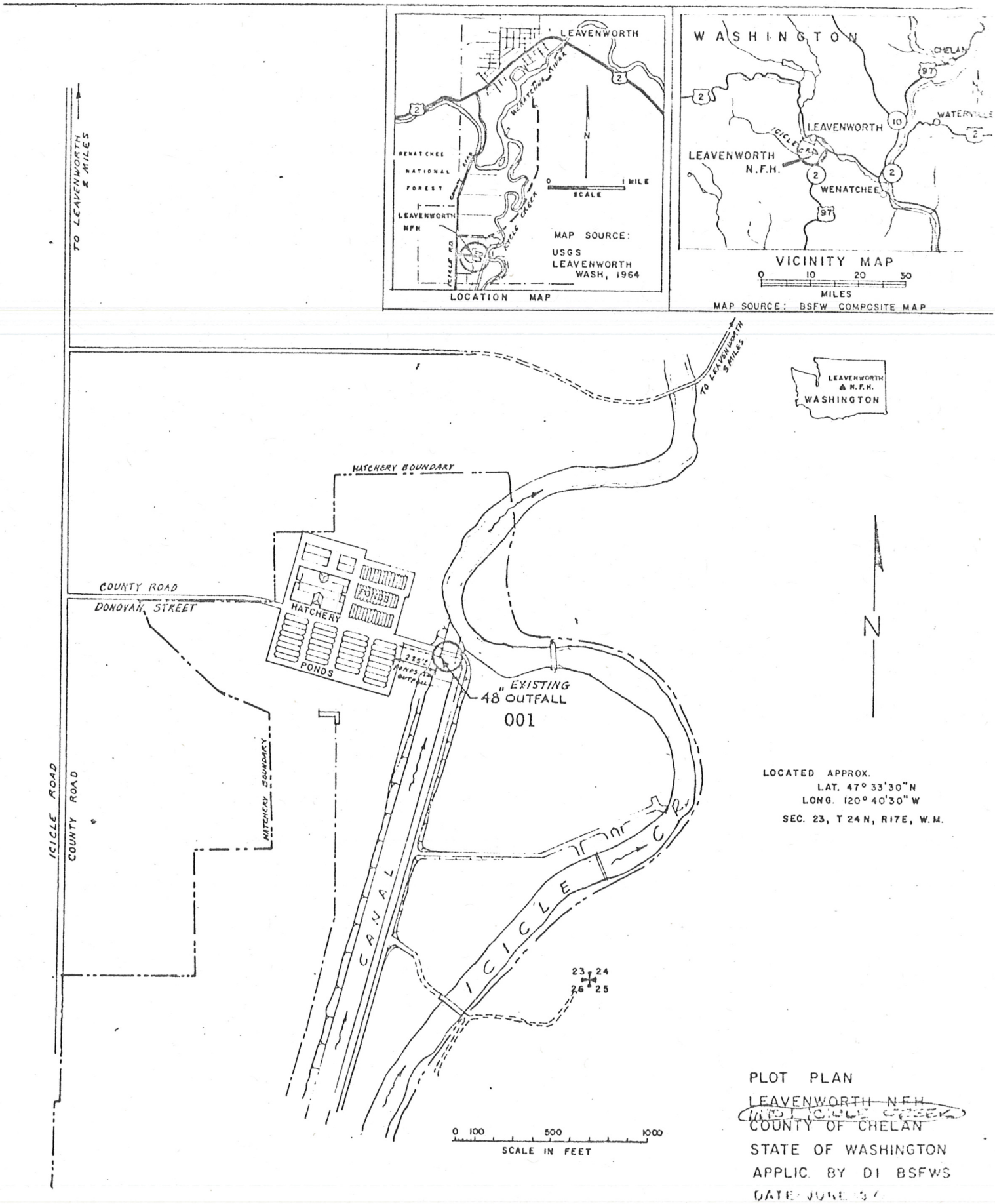

LOCATED APPROX.
LAT. 47° 33'30" N
LONG. 120° 40'30" W
SEC. 23, T 24 N, R17E, W.M.

PLOT PLAN
~~LEAVENWORTH NFH~~
~~INTO ICICLE CREEK~~
COUNTY OF CHELAN
STATE OF WASHINGTON
APPLIC. BY DI BSFWS
DATE: JUNE 3?

SHEET 1 OF 2