

FEB 12 1989

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

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FEB 25 2008

Department of Water Resources

BENEFICIAL USE FIELD REPORT

DEPARTMENT OF WATER RESOURCES

A. GENERAL INFORMATION

Permit No. 01-9082

1. Owner: J. R. Simplot Co. Phone No. _____

Current Address: P.O. Box 27, Boise, ID 83707

2. Accompanied by: Mike Gahn EXAM. DATE: 9-25-87

Address: P.O. Box 130, Burley, ID Phone No. 678-3571

Relationship to Permit Holder: Environmental Manager

3. Source: Snake River tributary to Columbia River

B. OVERLAP REVIEW

1. Other water rights with same place of use: 01-4058

☒ Copies Attached

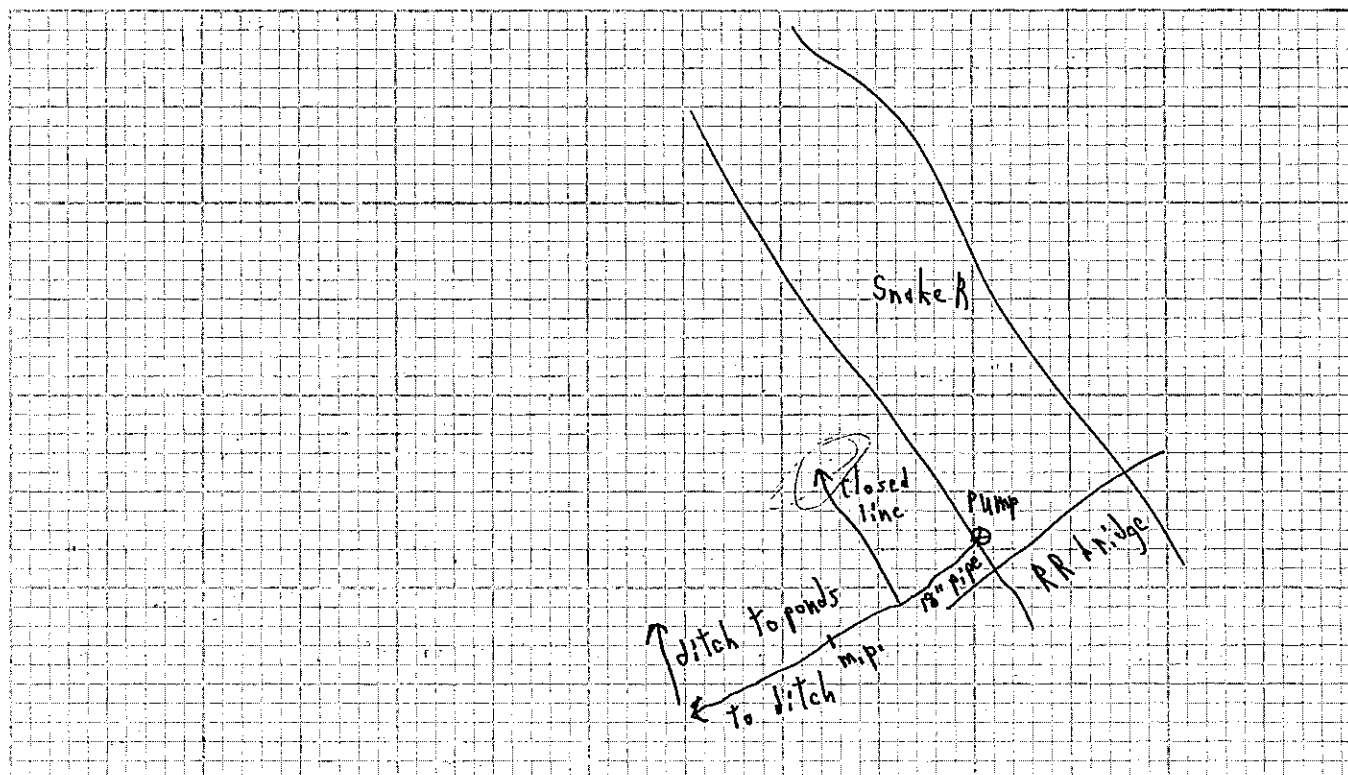
2. Other water rights with same point of diversion: 01-4058

☒ Copies Attached

☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



Scale: 1" = _____

2. ☒ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required).

☒ Photo of Diversion and System Attached

(required for all but single household domestic groundwater, and stockwater.

☒ Aerial Photo Attached
(required for irrigation of 10 acres or more).

System Description (continued)

3. **Narrative:** Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

Pump in Snake River, mainline to ditch. Ditch to ponds. Water dilutes effluent from food-processing & ethanol plants to reduce odor levels & allow discharge into Snake R. to meet water-quality standards. Correct use is water quality improvement (31), not industrial (07).

Volume use would be continuous use from Mar 15 - Nov 15 & sporadically the rest of the year

Use is slowly being phased out as processing plant is reducing water usage,

☐ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	GE	25	RS11190	? re-built	?

*Code to correspond with No. on map and aerial photo

5. **Point(s) of Diversion:**

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
	1	SW	SE	SE	16	10S	23E	Cassia	

6. **Place(s) of Use:**

Indicate Method of Determination

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
10S	23E	16									X	X		X		X	X		
											1/2	1/3				1/2	1/1		
		21		X				X											

Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Velocity Sensor	portable	MC Products	UFT-603			

2. Measurements:

698 gpm = 1.56 cfs.

Measured 1 fps velocity in 18" pipe. (See Attached M-C Table)

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method: 1.56 cfs.

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

$1.56 \text{ cfs} \times 245 \text{ days} \times 1.9835 = 758.1 \text{ AFA}$
 $1.56 \text{ cfs} \times (120 \text{ days}/4) \times 1.9835 = 92.8$ } 850.9 AFA

H. REMARKS AND OVERLAP REVIEW ANALYSIS

- * Pond location has varied over time within the $S\frac{1}{2}$ Sec. 16. Ponds marked on aerial photo are what is presently in use.
- * Simplot has only 1 pumping site in this area. Claim 01-4058 would cover this use.
- * Volume use - assume continuous use during irrigation season $\frac{1}{4}$ of the time the rest of the year. This would cover the maximum use of this system. In reality, the pump has not been used for at least a year according to Mike Gann.
- * Unclear if water is directly discharged into river
- * The measuring device is portable, not permanent as required by permit. The pump is locked up but the power switch is not.

I. RECOMMENDATIONS

1. Recommended Amounts

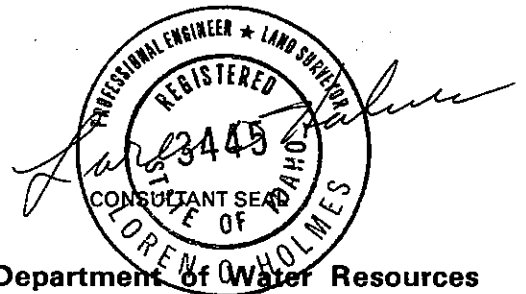
Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
~~Industrial~~	~~MARCH~~	~~NOV 15~~		
Water Quality Improvement	Jan 1	Dec 31	1.56	850.9
Water Quality Improvement				
Totals:				

2. Recommended Amendments

- ☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☒ Add P.U. as reflected above ☐ Other

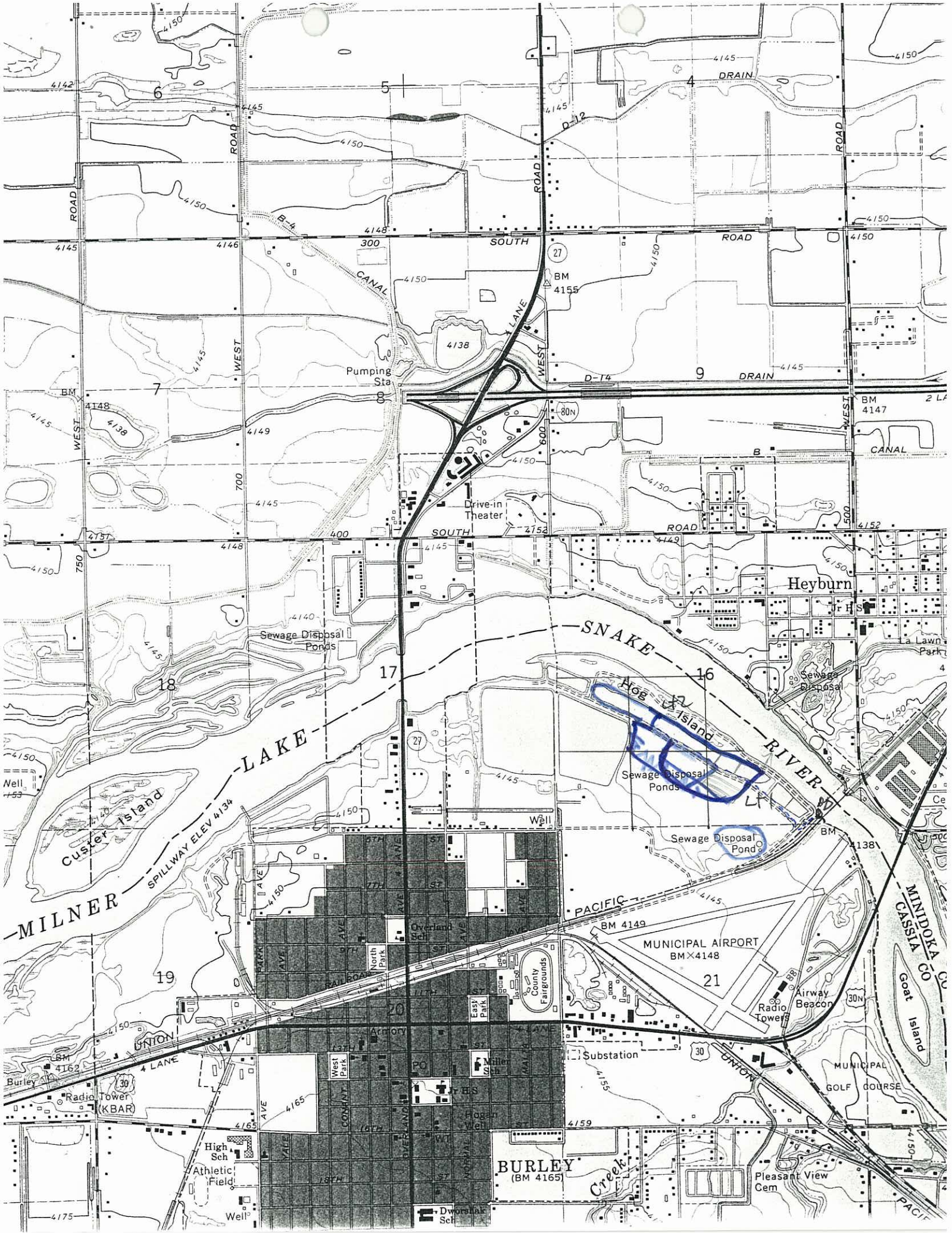
J. AUTHENTICATION

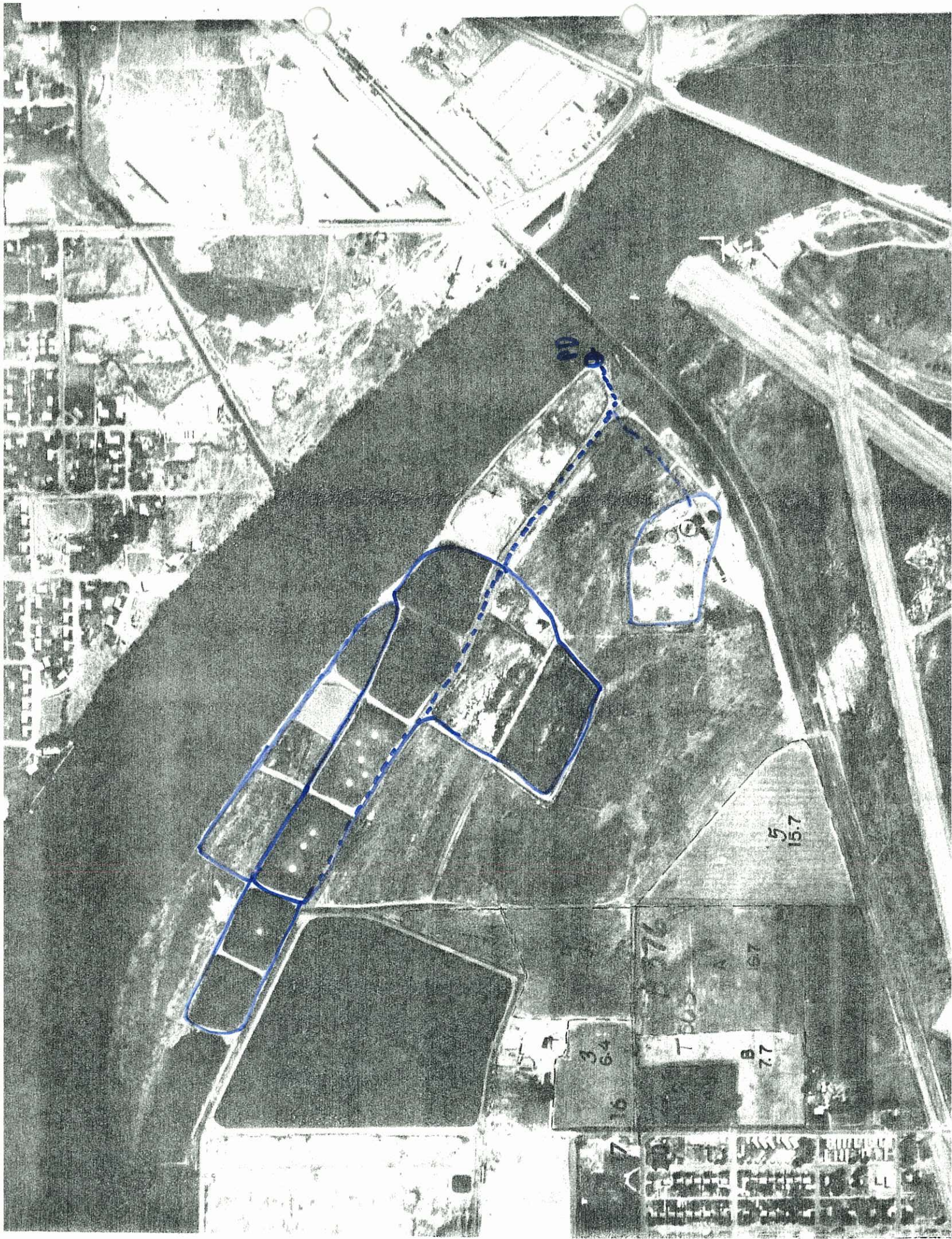
Field Examiner's Name J. E. Stanton
Signature J. E. Stanton
Certification Date 5/15/87
Field Report Preparation Date 9-28-87



- K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

Ryanne McCarthy 4/19/89





01-7082

Pumphouse, pipeline,
M.P.



Inside pumphouse,



Canal running to N
to ponds, carries plant
effluent & river water.



01-7082

Effluent ponds



