

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-7879

Exam Date: 8/27/2015

1. Current Owner: RIPLEY COMEGYS
PO BOX 1508
BONNERS FERRY ID 83805
(208)267-5113
2. Accompanied by: Ripley Comegys (Owner) and Phil Allegretti (Agent)

3. SOURCEDEEP CREEK
UNNAMED STREAM**TRIBUTARY**KOOTENAI RIVER
DEEP CREEK**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

DEEP CREEK L2 NW1/4NE1/4 Sec. 1, Twp 61N, Rge 01W, B.M. BOUNDARY County

UNNAMED STREAM L2 NW1/4NE1/4 Sec. 1, Twp 61N, Rge 01W, B.M. BOUNDARY County

UNNAMED STREAM SW1/4NE1/4 Sec. 1, Twp 61N, Rge 01W, B.M. BOUNDARY County

Method of Determination: Aerial photography, Bing Maps and Arc Map Data.

2.

PLACE OF USE: RECREATION

Twp Rge Sec	NE				NW				SW				SE				Totals
61N 01W 1	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
		X	X														
		L 2															

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
61N 01W 1	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
		.8															.8
		L 2															

Total Acres: 0.8

[illegible][illegible][illegible][illegible][illegible]

Method of Determination: Aerial photography, Bing Maps and Arc Map Data.

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
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N/A

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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N/A

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: SEE ATTACHED POND ANALYSIS SHEET AND PUMP CAPACITY SHEETS.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.8 \text{ AC} \times 3 \text{ AF} = 2.4 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 214 \times 1.9835 = 12.7 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 2.4 \text{ AF}$$

2. Volume Calculations for Other Uses: SEE ATTACHED POND ANALYSIS SHEET.

G. NARRATIVE/REMARKS/COMMENTS

FIELD EXAM SHOWED APPLICANT HAD 2 PONDS THAT WERE LOCATED ON A UNNAMED STREAM. APPLICANT THEN HAD A POD ON DEEP CREEK WHERE THEY COULD IRRIGATE 0.8 ACRES NEARBY AND ALSO DIVERT RECREATION FLOW THROUGH DURING 6 MONTHS OF THE YEAR. APPLICANT HAD TWO PORTABLE PUMPS IN GARAGE THAT WOULD BE USED TO DIVERT WATER FROM DEEP CREEK AND TO USE WATER FROM PONDS FOR THE IRRIGATION OF 6.4 ACRES. FIRE PROTECTION AND FIRE PROTECTION FROM STORAGE WILL BE REMOVED FROM LICENSE BECUASE PERMANENT PUMP WAS NOT IN PLACE AT TIME OF EXAM. SEE ATTACHED POND ANALYSIS SHEET.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
RECREATION	01/01 to 12/31	0.120 CFS	13.70 AF
IRRIGATION	04/01 to 10/31	0.030 CFS	2.40 AF
IRRIGATION STORAGE	01/01 to 12/31		69.20 AF
IRRIGATION FROM STORAGE	04/01 to 10/31		19.20 AF
RECREATION STORAGE	01/01 to 12/31		50.00 AF
WILDLIFE STORAGE	01/01 to 12/31		50.00 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		50.00 AF
<u>Totals:</u>		0.120 CFS	69.20 AF

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

I. AUTHENTICATION

Field Examiner's Name Adam Fudwin Date 2-17-2016

Reviewer Keith S. Franklin Date 2-19-2016

**WATER RIGHT 98-7879
POND ANALYSIS SHEET**

POND 1: 4.4 AC X 8 FEET DEEP = 35.2 AF
POND 2: 0.09 AC X 12 FEET DEEP = 1.1 AF
EVAPORATION (POND 1 + 2): 12,192 GPD X 365 DAYS / 325,850 = 13.7 AF
SEEPAGE: NO SEEPAGE, PONDS ARE INSTREAM
IRRIGATION: 6.4 ACRES X 3.0 AF = 19.2 AF

0.12 CFS RECREATION

0.03 CFS IRRIGATION

69.2 AF	IRRIGATION STORAGE	A) POND SIZE (1+2)	36.3 AF
		B) EVAPORATION	13.7 AF
		C) SEEPAGE	0.0 AF
		D) IRRIGATION	19.2 AF
	TOTAL		69.2 AF

19.2 AF IRRIGATION FROM STORAGE

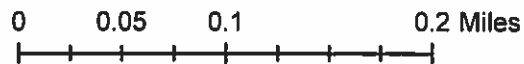
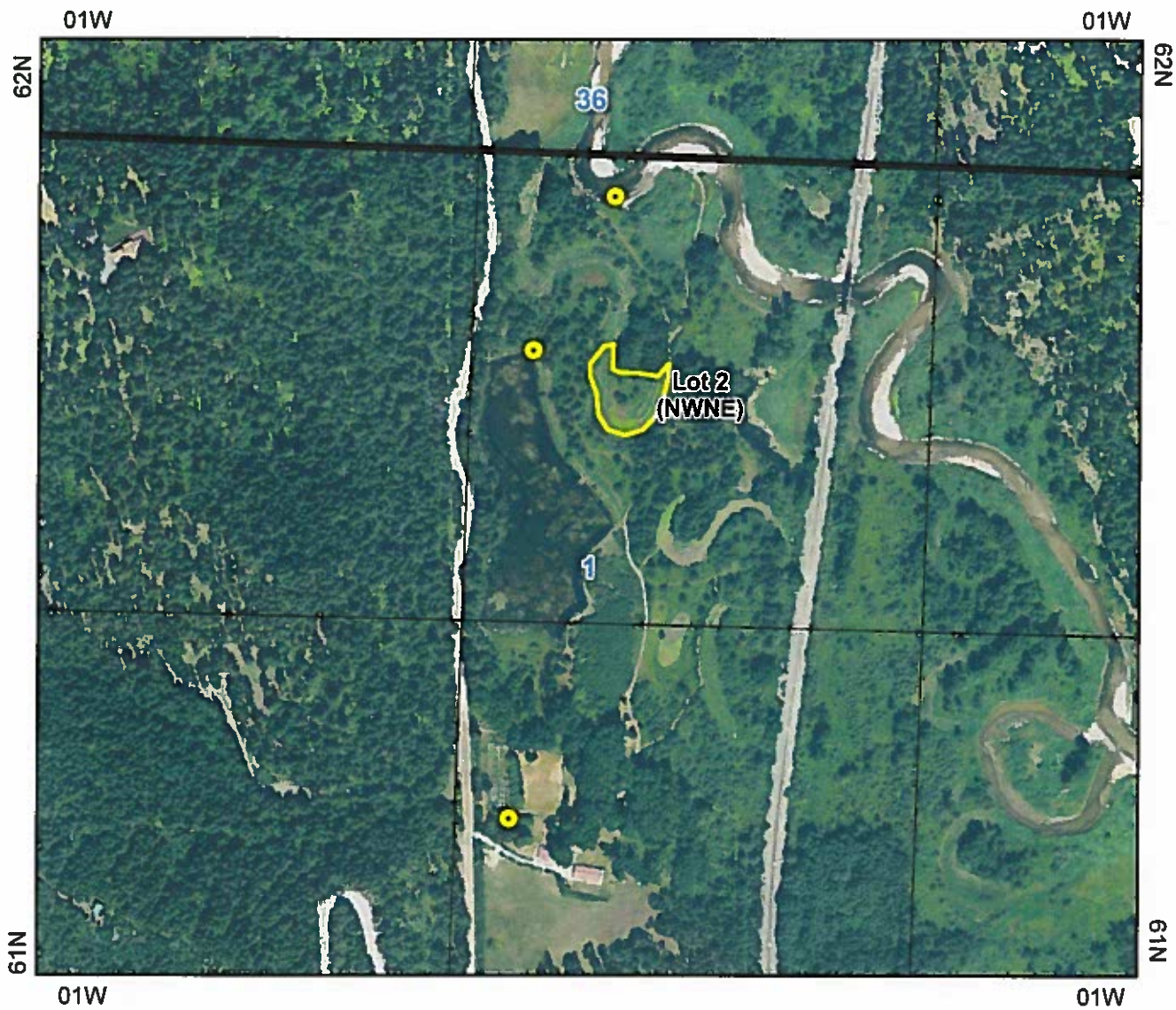
50.0 AF	RECREATION STORAGE	A) POND SIZE (1+2)	36.3 AF
		B) EVAPORATION	13.7 AF
		C) SEEPAGE	0.0 AF
	TOTAL		50.0 AF

50.0 AF	WILDLIFE STORAGE	A) POND SIZE (1+2)	36.3 AF
		B) EVAPORATION	13.7 AF
		C) SEEPAGE	0.0 AF
	TOTAL		50.0 AF

50.0 AF	FIRE PROTECTION STORAGE	A) POND SIZE (1+2)	36.3 AF
		B) EVAPORATION	13.7 AF
		C) SEEPAGE	0.0 AF
	TOTAL		50.0 AF

State of Idaho
Department of Water Resources
Water Right License
98-7879

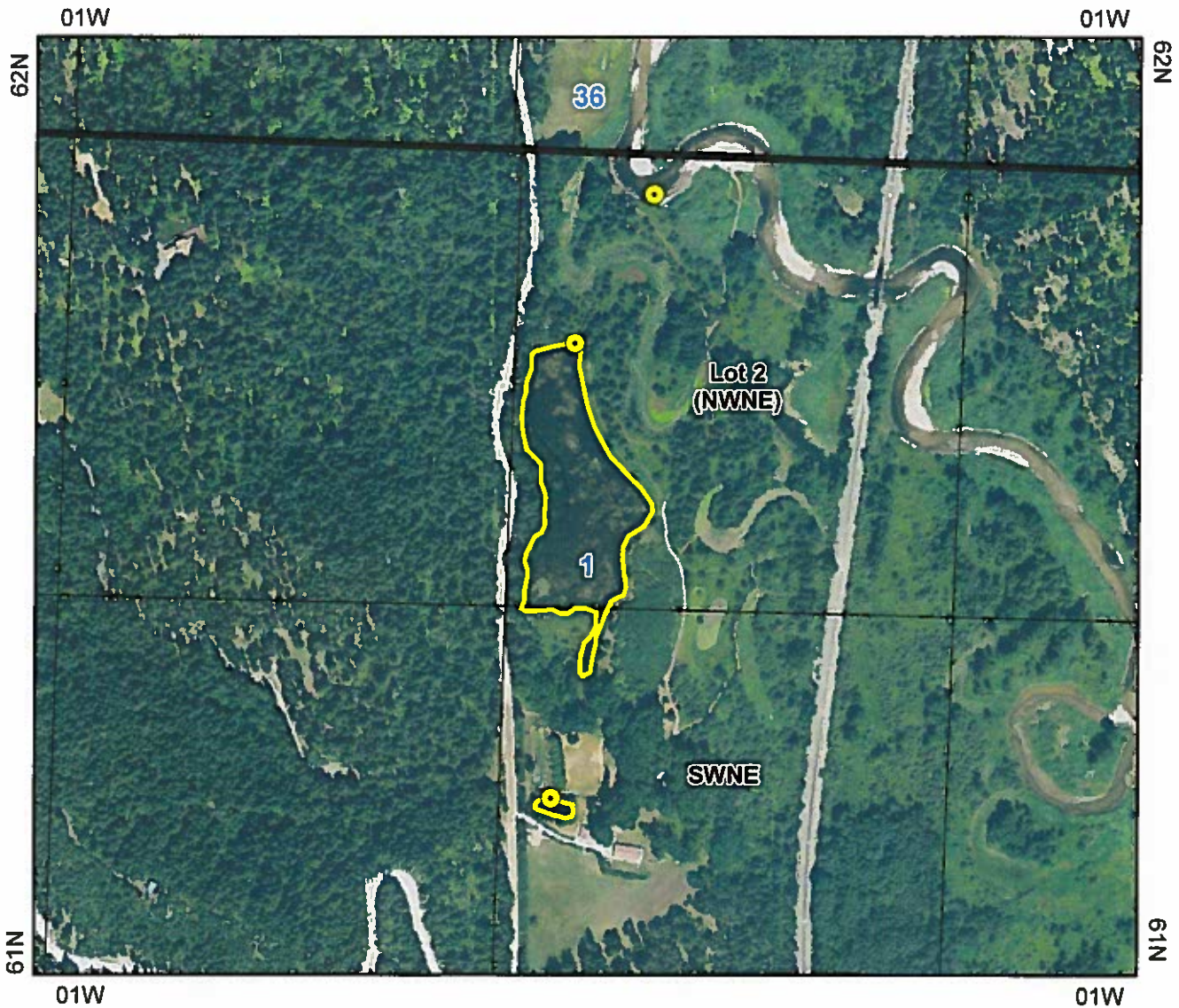
Irrigation from Deep Creek



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections



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Department of Water Resources
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Storage



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.05 0.1 0.2 Miles

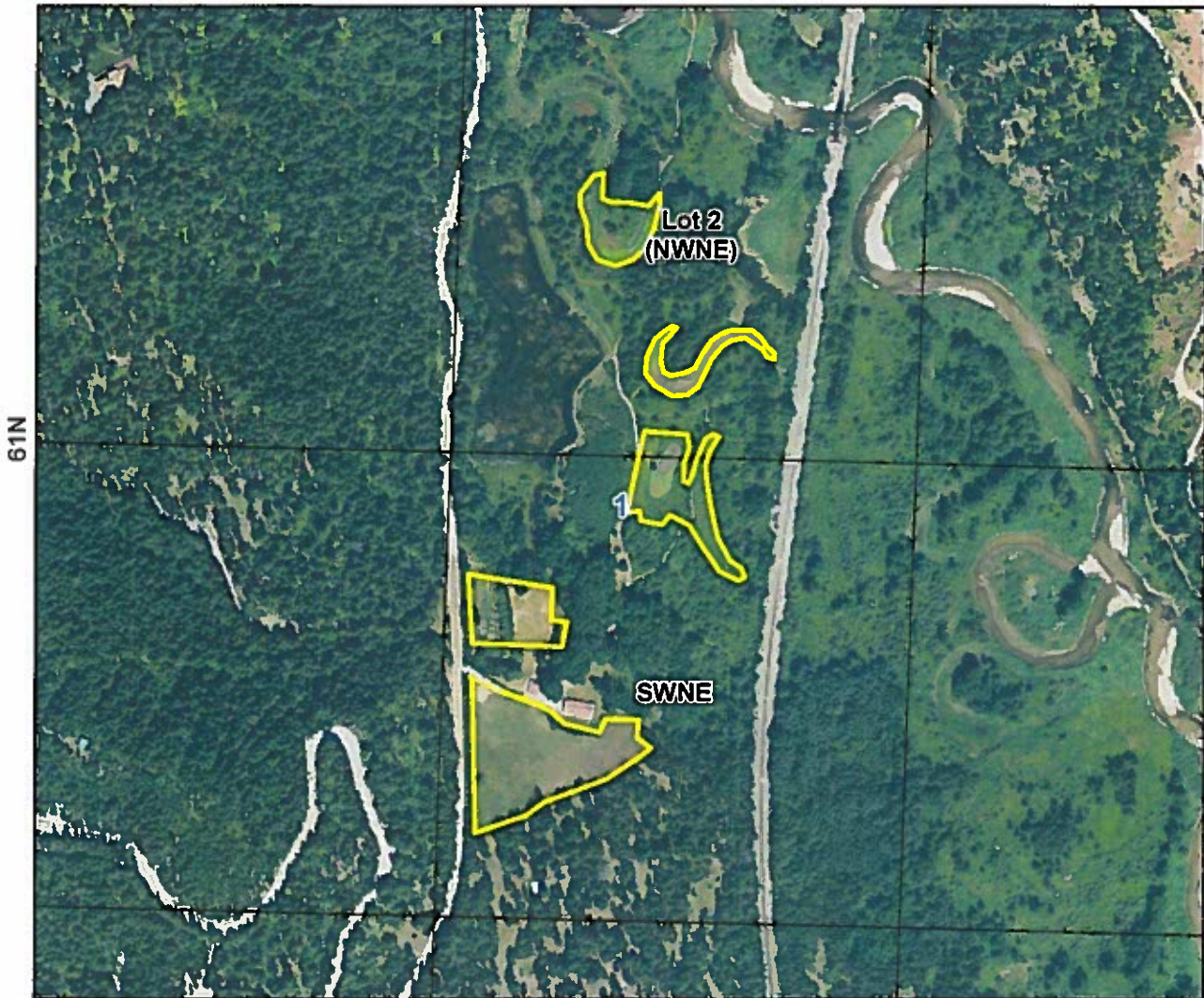


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*Irrigation From
Storage*

01W



0 0.05 0.1 0.2 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections



PUMPING CAPACITY FOR HONDA GX120 PUMP FOR WATER RIGHT 98-7879

Engine	GX120
Displacement	118cc
Bore and stroke	2.4" x 1.7"
Compression Ratio	8.5:1
Oil Alert	Std
Pump type	Centrifugal, Self-priming
Volute	Rigid Mounted Cast Iron
Impeller	4 Vane Cast Iron
Mechanical Seal (Pump case / impeller)	Silicon Carbide/Silicon Carbide
Priming time	110 sec @ 16.4 ft.
Drive system	Direct
Discharge capacity	164 gal/min
Suction port diameter	2" NPT
Discharge port diameter	2" NPT
Total head lift	105 ft.
Suction head lift	25 ft.
Maximum pressure	45 psi
Solids handling	N/A
Dimensions (LxWxH)	19.3" x 14.4" x 16.5"
Dry weight	44 lb.
Fuel Capacity	0.53 gal
Run Time @ Max Discharge	1.7 hr
Strainer Part #	78325-YG3-000
Residential Warranty	3 years
Commercial Warranty	3 years

HYPRO

WIDOR INDUSTRIES
51th Avenue NW • New Brighton, MN 55113-3388
(612) 766-6200 • 800-428-9776 • Fax: 800-234-4276

MODEL: 1572-SPX
ENGINE DRIVEN SELF PRIMING
CENTRIFUGAL PUMP

TOTAL HEAD: 115 FT. 50 PSI
SUCTION LIFT: 28 FT.
CAPACITY: 145 GPM
SIZE: 2" x 2" NPT

MADE IN JAPAN

PUMP
1572-SPX

HYPRO
HYDRO INDUSTRIES

1000 Avenue 100W • Cedar Rapids, IA 52410-3000
(515) 766-6200 • FAX (515) 766-6201 • TOLL FREE (800) 333-4499

MODEL: 1572-SPX
ENGINE DRIVEN SELF PRIMING
CENTRIFUGAL PUMP

TOTAL HEAD: 115 FT. 80 PSI

MAXIMUM LIFT: 28 FT.

CAPACITY: 145 GPM

SIZE: 2" x 2" NPT

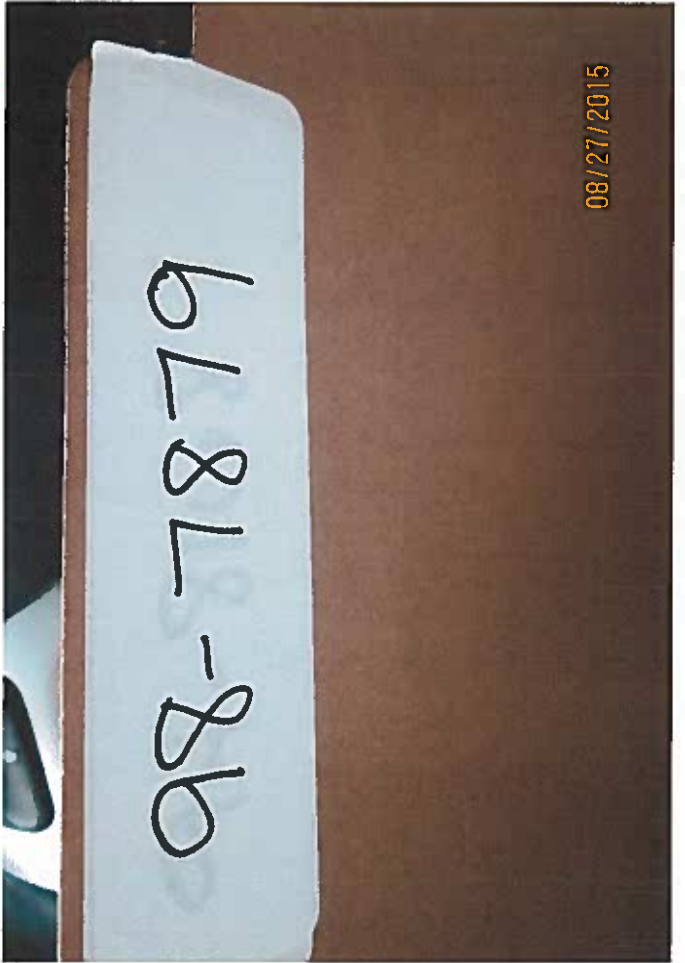
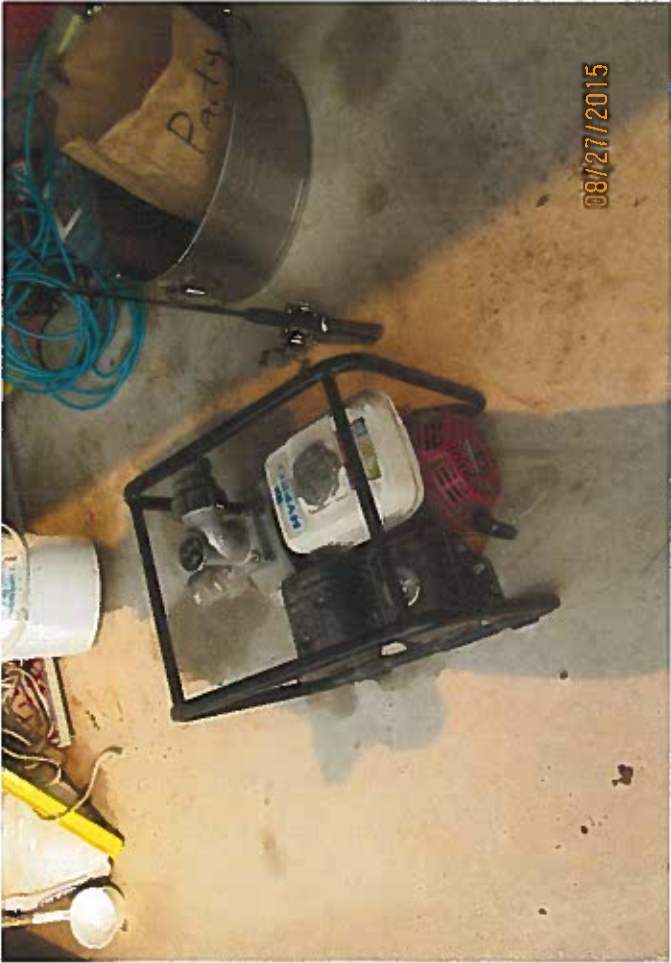
MADE IN JAPAN

PUMP
1572-SPX

98-7879



Pumps



6286-86



Pump and Irrigation equipment

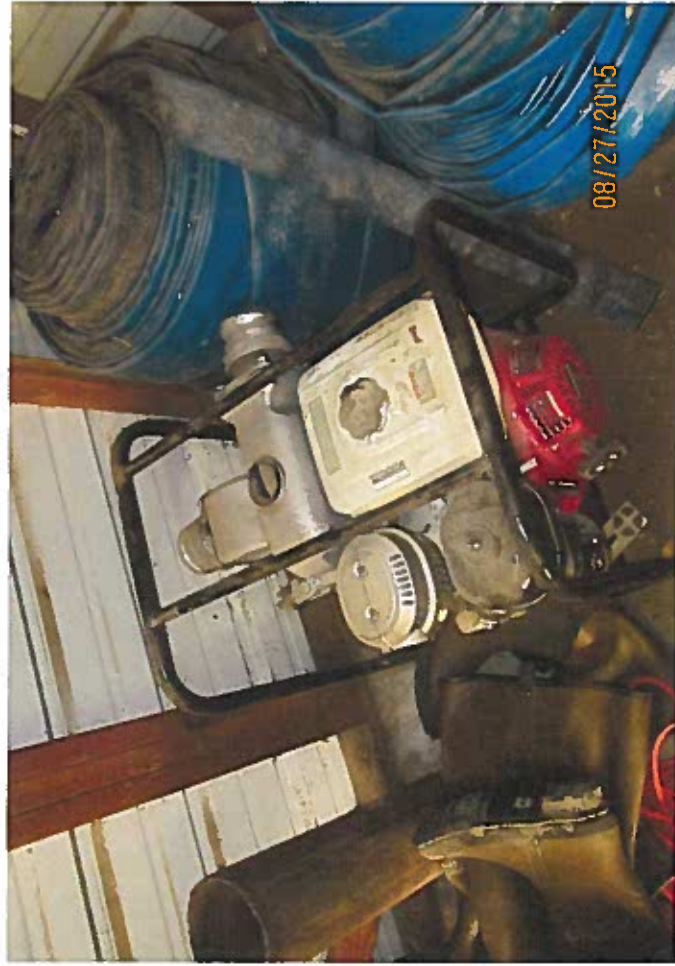
Pond 2



POD unnamed stream



6286-86



Pond 2

5L8L-8b



Irrigation

6L8L-8b



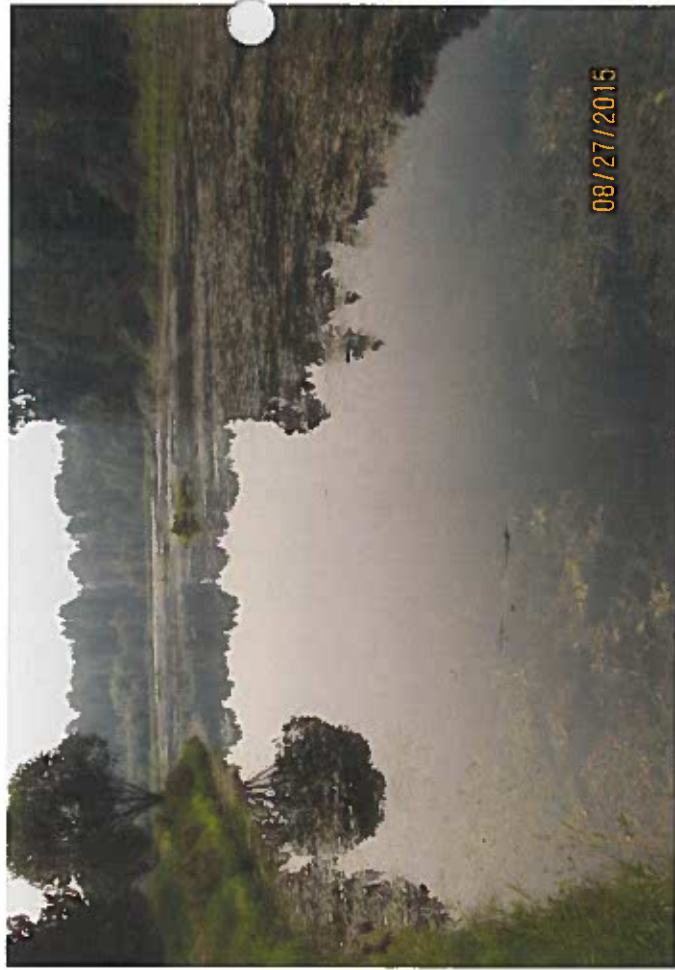
noir-sun



POD unnamed stream



Pumping location



Pond

Pumping location



Pond 2



Looking towards Pond on Deep Creek

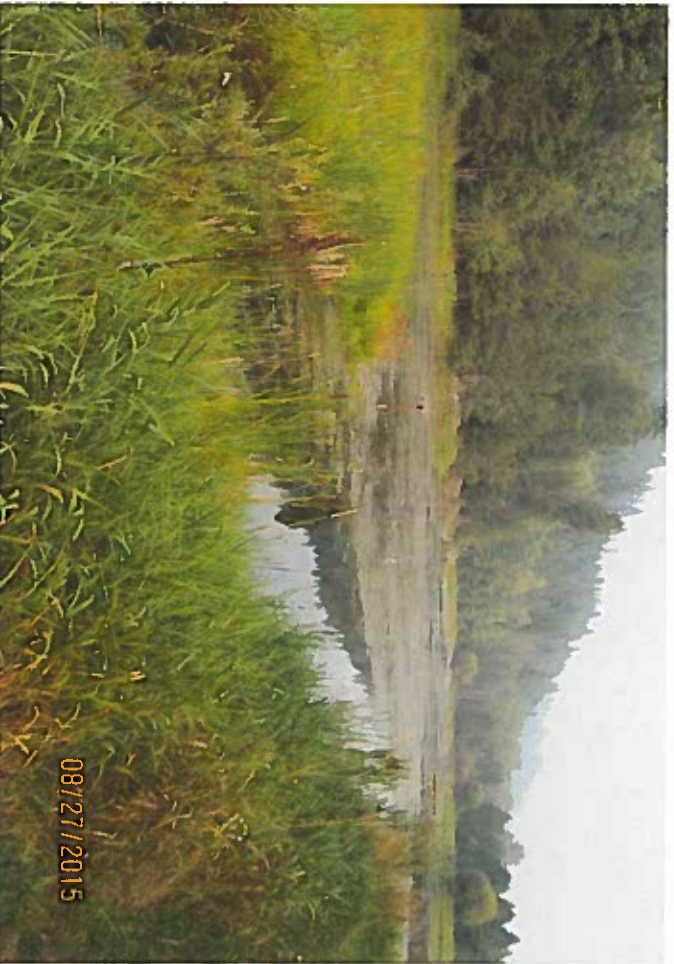


Over flow culvert



Pond 2

98-7879





Irrigation

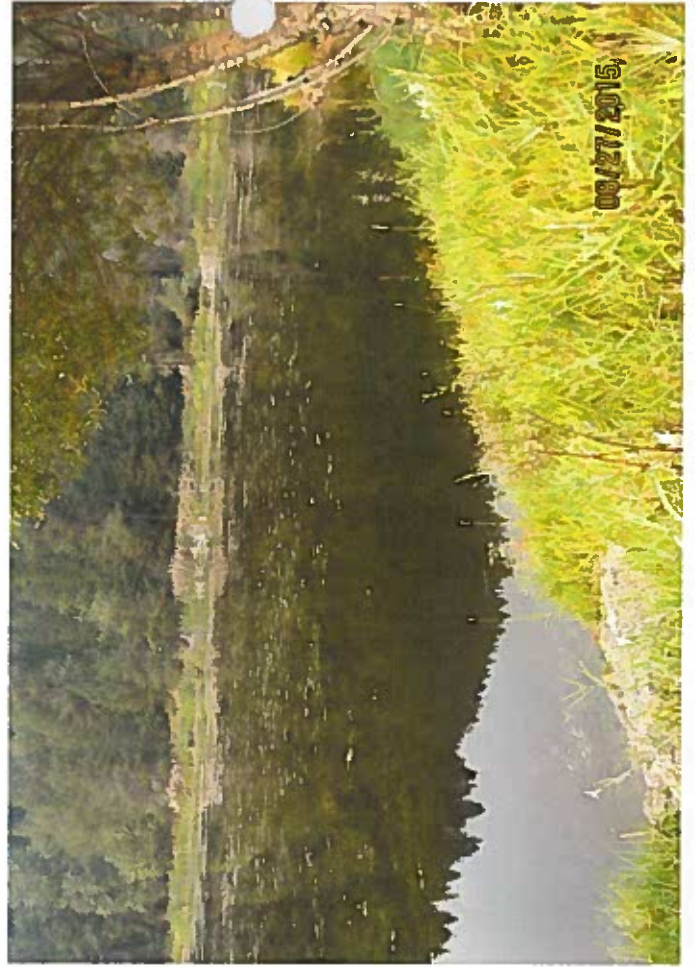
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Pond 2



Looking up channel from Pond
on Deep Creek



Pond 2

98-7879

