

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11306
Exam Date: 11/29/2017

1. Current Owner:
G O INVESTMENTS IDAHO LLC 26358 SAND RD PARMA ID 83660 (208) 722-5800
2. Accompanied by: GREG OBENDORF
Phone No: (208) 573-3054
Address: 26496 DEB LN, PARMA, ID 83660
Relationship to Permit Holder: OWNER

3. **SOURCE:**
DIXIE SLOUGH

TRIBUTARY:
BOISE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-21616
2. Other water rights with the same point-of-diversion: 63-21616

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

DIXIE SLOUGH SE¼NE¼ Sec. 1, Twp 04N, Rge 05W, B.M. CANYON County

Method of Determination: Aerial imagery and field exam visit

2.

PLACE OF USE: WILDLIFE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	05W	35		X	X	X									X				

Method of Determination: Aerial imagery and field exam visit

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X 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.

X

X Aerial Photo Attached (required for irrigation of 10+ acres).

X

X Photo of Diversion and System Attached

X

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
NA	NA	NA	NA	NA	NA

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Velocimeter	Acoustic Doppler	SonTec Flow Tracker	NA	NA	NA	NA

2. Measurements:

On January 11, 2018 a flow tracker was used to calculate flow on the unnamed ditch that diverts water from the Dixie Slough. The measurement was taken roughly 270 feet downstream of the POD off the Dixie Slough. The measured spot was selected downstream to alleviate turbulence.

E. FLOW CALCULATIONS

Measured Method:

 X Additional Computation Sheets Attached

The average discharge velocity in the unnamed ditch was 1.2178 ft/sec with a total area of 18.105 ft². This totals a discharge of **22.0495 cfs** ± 3.2% as outlined in the attached discharge measurement summary.

F. VOLUME CALCULATIONS

1. Volume Calculations for WILDLIFE:

V_R = IDWR does not have a policy/standard volume for beneficial use developed under WILDLIFE use.

V_{DR} = [Diversion Rate (cfs)] x (Days in Wildlife season) x 1.9835 = 2.86 cfs X 121 days X 1.9835 = 686.4 AF or **686.0 AF**

V = Smaller of V_{IR} and V_{DR} = **686.0 AF**

G. NARRATIVE/REMARKS/COMMENTS

Permit No. 63-11306 authorizes a diversion rate of 2.86 cfs for WILDLIFE purposes. A field exam was conducted by WRAs Cody Parker and Aaron Skinner on November 29, 2017, and accompanied by Greg Obendorf, the representative of G O Investments.

BACKGROUND:

The purpose of this right was to create an environment for wildlife with flow through water from the Dixie Slough and return water back into the Ross East End Drain. The permit identifies the source as UNNAMED STREAM, tributary of ROSS EAST END DRAIN. The original application identified the source as DIXIE SLOUGH, tributary of BOISE RIVER. A discussion with Nick Miller and Angie Grimm concluded that the intent was always to use water out of the Dixie Slough, therefore, with an amendment moving the POD into the SENE of Section 1 of 04N05W, a license will be recommended without re-advertisement. Justification being that the application was amended by Department staff to show two (2) PODS; 1) Dixie Slough and 2) Unnamed Stream. The amendment was based off the Wilder Quadrangle map only, but should have included the Notus Quadrangle map during the review process. The Dixie Slough diversion is still in place and was before the application was filed. Staff misread/interpreted the application and topo map. For this reason, the Department has since adopted the rule to not change applications. Only one POD will be recommended for licensing. As stated, **an amendment is necessary to move the POD to match development.**

System Description:

Water is conveyed from the Dixie Slough to the place of use by an unnamed ditch that carries water into the Meadows Gulch Drainage. The drainage delivers water to the POU via earth ditches and concrete ditches as outlined on the attached system diagram map. Water is then returned to the Ross East End Drain at the top of the NWNE of Section 35 in 05N05W along the Dixie/Boise River Road. The same system is used to deliver irrigation water to the POU with WR No. 63-21616.

Diversion Rate and Volume:

The permitted rate is 2.86 cfs. During the field exam, a new culvert was being installed across Bluff Lane, so water was not getting to the POU area. On January 11, 2018 a flow measurement was obtained above the dam the Golden Gate Highway District built to block diverted water. Even with the dam in place, water was diverted through the unnamed ditch and back into the Dixie Slough as shown on the field exam pictures. A measurement was taken to identify ditch capacity. This totaled 22.05 cfs as noted in Section E of this report. The only other uses known to pull from the Dixie Slough/unnamed ditch/Meadow Gulch Drainage during the same WILDLIFE season of use is WR No. 63-21616 for 0.05 cfs for STOCKWATER use. Therefore, **the permitted rate of 2.86 cfs will be recommended to licensing.**

The permit did not include annual volume limits. Calculations in Section F of this report establish a diversion requirement of **686.0 AF**, which **will be recommended to licensing.**

Ownership:

Current Canyon County taxlot data was used to verify land ownership and showed G O Investments LLC as the parcel owner for the place of use matching the permit.

Overlap:

Only the Dixie Slough POD will be used in the analysis since the Unnamed Stream POD was not developed. POD overlap analysis identified WR No. 63-21616 as the only water right that has the same POD. WR No. 63-21616 authorizes both IRRIGATION and STOCKWATER use from the Dixie Slough. The IRRIGATION component is out of season with WILDLIFE, but STOCKWATER is overlapping. The capacity of the conveyance ditches is adequate to deliver 2.91 cfs (2.86 + 0.05 cfs) to the overlapping POU.

POU overlap was identified and outlined on the attached spreadsheet. WR No. 63-21616 does overlap. There are many Riverside Irrigation District WRs that illustrate overlap with the SWNE of Section 35 in 05N05W acreage, but are for irrigation use and not pertinent to this file. WR No. 63-23742 is a groundwater domestic/stockwater right. G O Investments own the whole QQ associated to this right and the POD is a centroid. Because the use and source is different, it is not pertinent to this right.

Conditions:

Condition 005 was updated to R05 and forwarded to licensing.

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>
WILDLIFE	11/16 to 03/14	2.86 CFS	686.0 AF
	<u>Totals:</u>	2.860 CFS	686.00 AF

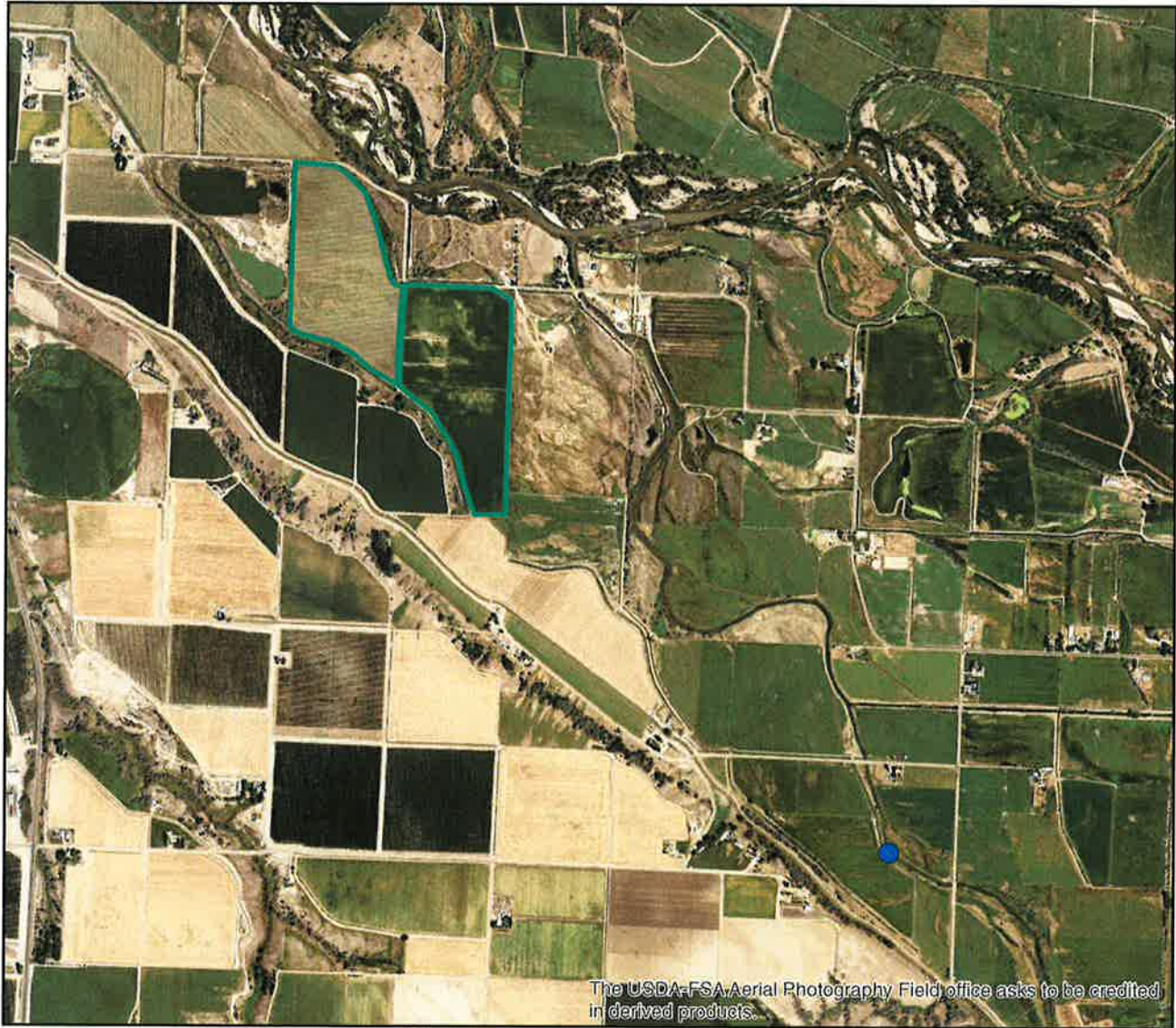
2. Recommended Amendments☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None**I. AUTHENTICATION**Field Examiner's Name Aaron Skinner Date 1/24/2018Reviewer Angela M. Quinn Date 7/24/2018

State of Idaho
Department of Water Resources

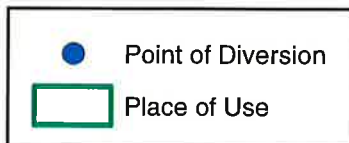
Place of Use and Point of Diversion Map

Water Right Permit No. 63-11306

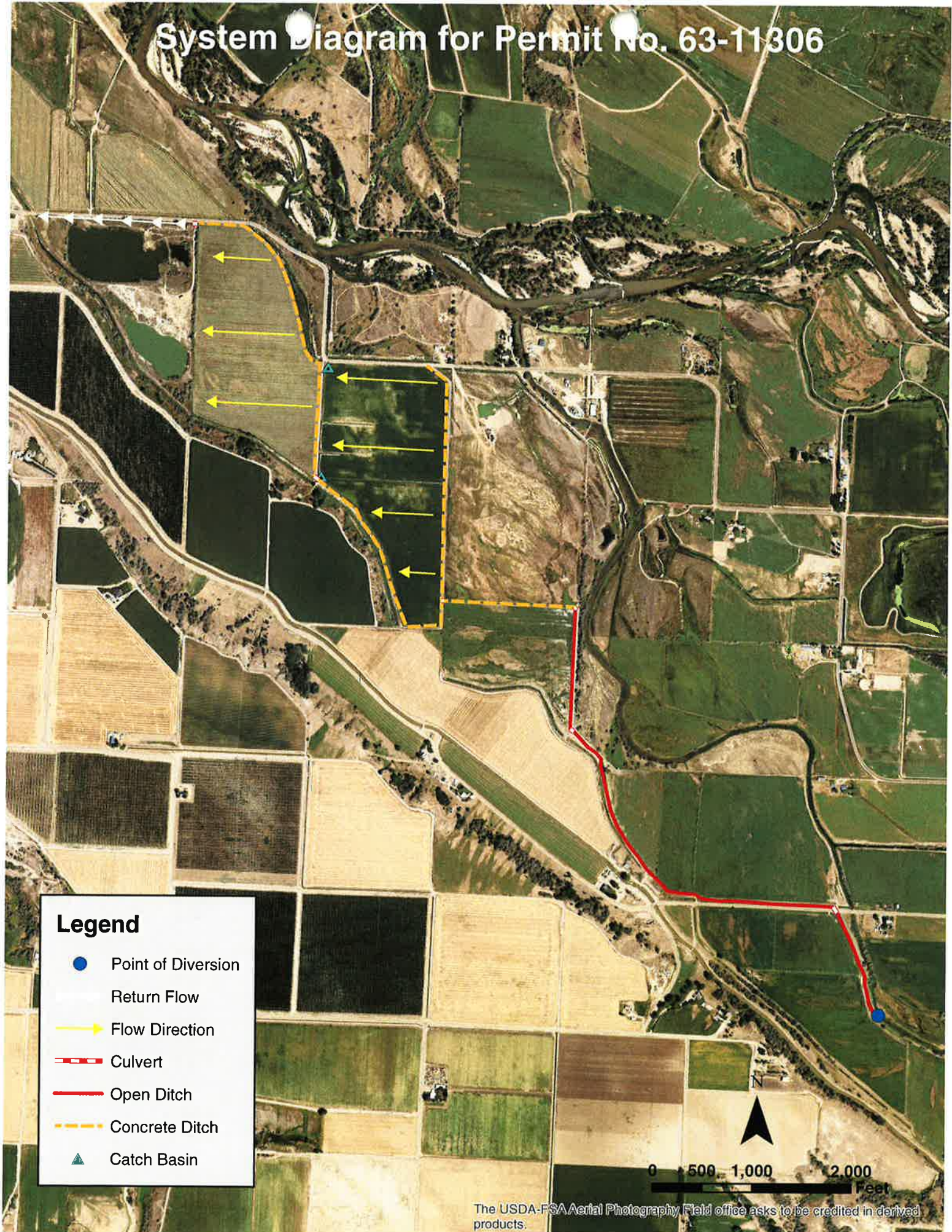
This map depicts the WILDLIFE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



0 0.225 0.45 0.9 Miles



System Diagram for Permit No. 63-11306



Legend

- Point of Diversion
- Return Flow
- Flow Direction
- Culvert
- Open Ditch
- - - Concrete Ditch
- ▲ Catch Basin

0 500 1,000 2,000 Feet

The USDA-FSA Aerial Photography Field office asks to be credited in derived products.

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Scale: 0 500 1,000 2,000 Feet

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- Return Flow
- Flow Direction
- Culvert
- Open Ditch
- Concrete Ditch
- Catch Basin

The USDA-FSA Aerial Photography Field office asks to be credited in derived products.

Discharge Measurement Summary

Date Generated: Thu Jan 11 2018

File Information

File Name GO1.WAD
Start Date and Time 2018/01/11 10:45:38

Site Details

Site Name
Operator(s) AS

System Information

Sensor Type FlowTracker
Serial # P4553
CPU Firmware Version 3.7
Software Ver 2.30
Mounting Correction 0.0%

Units (English Units)

Distance ft
Velocity ft/s
Area ft²
Discharge cfs

Discharge Uncertainty

Category	ISO	Stats
Accuracy	1.0%	1.0%
Depth	0.1%	0.4%
Velocity	0.9%	3.0%
Width	0.1%	0.1%
Method	1.8%	-
# Stations	2.1%	-
Overall	3.1%	3.2%

Summary

Averaging Int. 20 # Stations 24
Start Edge LEW Total Width 11.700
Mean SNR 46.2 dB Total Area 18.105
Mean Temp 46.33 °F Mean Depth 1.547
Disch. Equation Mid-Section Mean Velocity 1.2178
Total Discharge 22.0495

Measurement Results

St	Clock	Loc	Method	Depth	%Dep	MeasD	Vel	CorrFact	MeanV	Area	Flow	%Q
0	10:45	2.30	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0
1	10:48	3.00	0.6	0.800	0.6	0.320	0.1414	1.00	0.1414	0.480	0.0679	0.3
2	10:49	3.50	0.6	1.000	0.6	0.400	0.5745	1.00	0.5745	0.500	0.2872	1.3
3	10:52	4.00	0.6	1.000	0.6	0.400	0.6880	1.00	0.6880	0.500	0.3440	1.6
4	10:55	4.50	0.6	1.100	0.6	0.440	0.5033	1.00	0.5033	0.550	0.2768	1.3
5	10:56	5.00	0.6	1.300	0.6	0.520	0.9849	1.00	0.9849	0.650	0.6401	2.9
6	10:59	5.50	0.6	1.500	0.6	0.600	1.0223	1.00	1.0223	0.750	0.7667	3.5
7	11:01	6.00	0.6	1.600	0.6	0.640	1.4491	1.00	1.4491	0.800	1.1594	5.3
8	11:03	6.50	0.6	1.700	0.6	0.680	1.2031	1.00	1.2031	0.850	1.0227	4.6
9	11:05	7.00	0.6	1.750	0.6	0.700	1.5404	1.00	1.5404	0.875	1.3478	6.1
10	11:07	7.50	0.6	1.850	0.6	0.740	1.7244	1.00	1.7244	0.925	1.5951	7.2
11	11:08	8.00	0.6	1.950	0.6	0.780	1.7861	1.00	1.7861	0.975	1.7416	7.9
12	11:09	8.50	0.6	2.000	0.6	0.800	1.6811	1.00	1.6811	1.000	1.6811	7.6
13	11:10	9.00	0.6	2.000	0.6	0.800	1.4265	1.00	1.4265	1.000	1.4265	6.5
14	11:11	9.50	0.6	1.950	0.6	0.780	1.4190	1.00	1.4190	0.975	1.3836	6.3
15	11:12	10.00	0.6	1.950	0.6	0.780	1.4567	1.00	1.4567	0.975	1.4204	6.4
16	11:13	10.50	0.6	1.950	0.6	0.780	1.2789	1.00	1.2789	0.975	1.2470	5.7
17	11:15	11.00	0.6	1.950	0.6	0.780	1.4619	1.00	1.4619	0.975	1.4255	6.5
18	11:17	11.50	0.6	1.900	0.6	0.760	1.4767	1.00	1.4767	0.950	1.4028	6.4
19	11:19	12.00	0.6	1.800	0.6	0.720	1.4557	1.00	1.4557	0.900	1.3100	5.9
20	11:20	12.50	0.6	1.750	0.6	0.700	0.9045	1.00	0.9045	0.875	0.7915	3.6
21	11:25	13.00	0.6	1.650	0.6	0.660	0.8816	1.00	0.8816	0.825	0.7273	3.3
22	11:28	13.50	0.6	1.600	0.6	0.640	-0.0194	1.00	-0.0194	0.800	-0.0155	-0.1
23	11:28	14.00	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0

Rows in italics indicate a QC warning. See the Quality Control page of this report for more information.

Discharge Measurement Summary

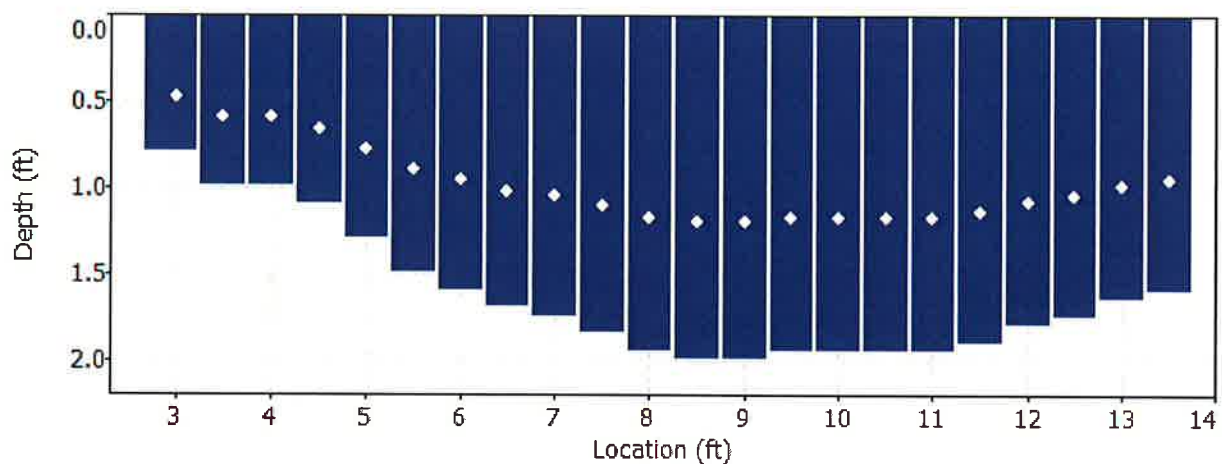
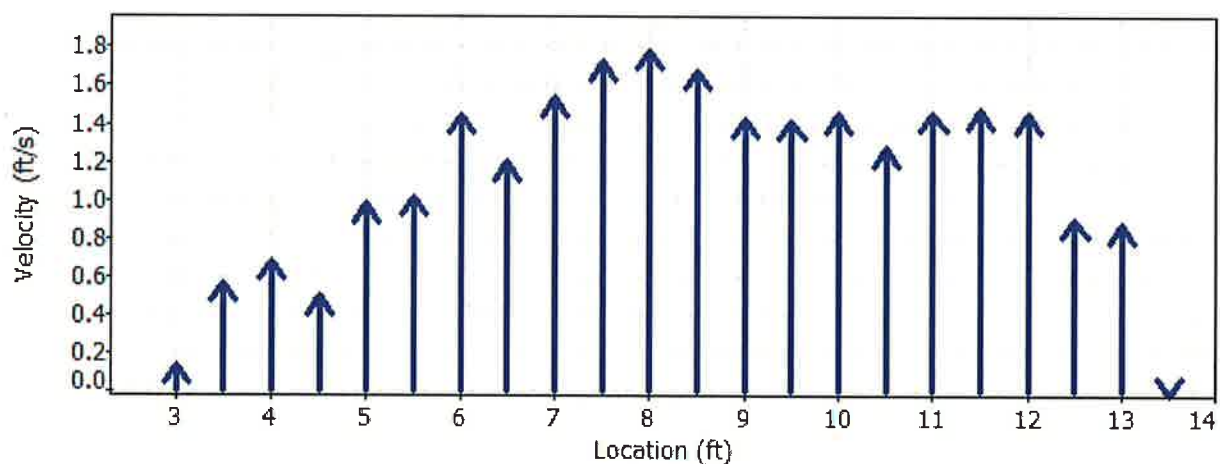
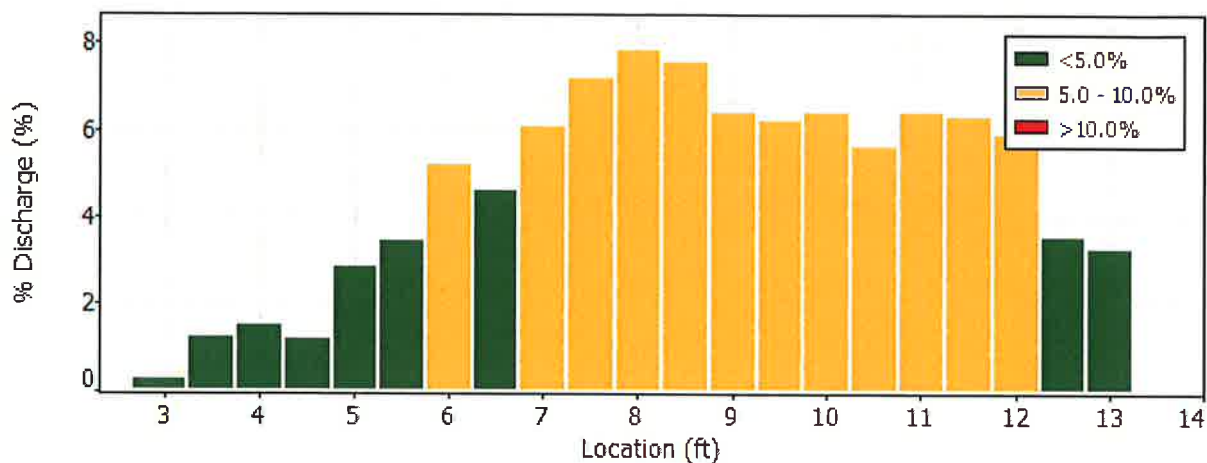
Date Generated: Thu Jan 11 2018

File Information

File Name GO1.WAD
Start Date and Time 2018/01/11 10:45:38

Site Details

Site Name
Operator(s) AS



Discharge Measurement Summary

Date Generated: Thu Jan 11 2018

File Information

File Name GO1.WAD
Start Date and Time 2018/01/11 10:45:38

Site Details

Site Name
Operator(s) AS

Quality Control

No Quality Control warnings

Discharge Measurement Summary

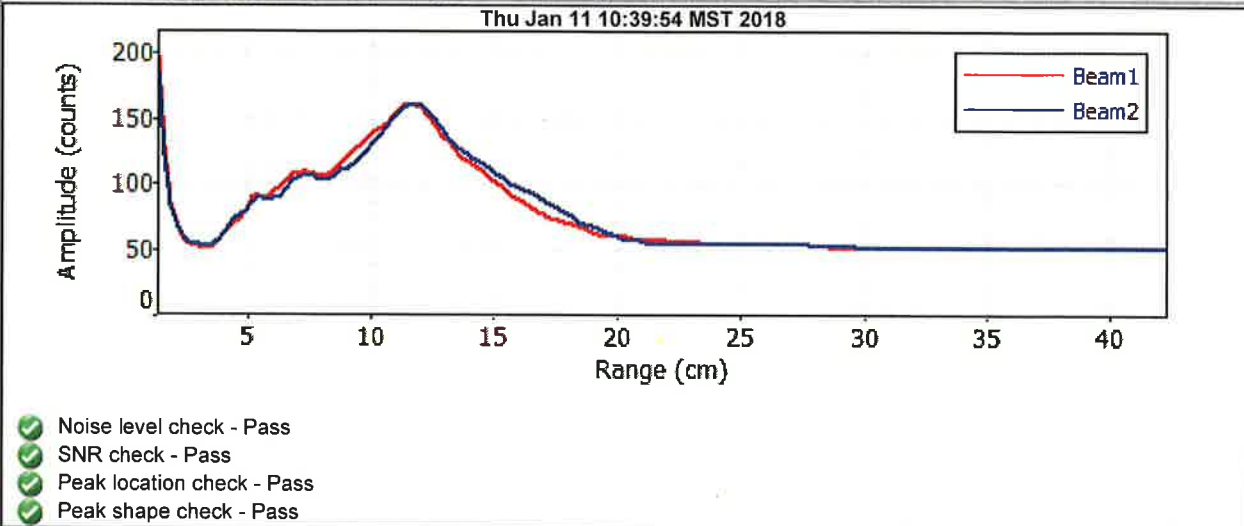
Date Generated: Thu Jan 11 2018

File Information

File Name GO1.WAD
Start Date and Time 2018/01/11 10:45:38

Site Details

Site Name
Operator(s) AS

Automatic Quality Control Test (BeamCheck)



Area of the point of diversion from the Dixie Slough.



The culvert that runs across Bluff Ln was under construction. A dam was created to divert water back to the Dixie Slough as shown in this image.



Water dammed up
returning back into
the Dixie Slough.



Water being
dammed due to the
road construction.



Conveyance to
Bluff Ln and on to
the POU.



Culvert to
Meadows Ditch
and on to the
POU.



Conveyance entrance into the POU. Concrete lined ditches carry water around the border of the POU.



Control structures like this one are in the corners of the lots to return water back to the concrete ditches.



Pipe at the bottom of the control structure that deliver water to the fields and/or return water back to the concrete ditches.



Corrugated pipe help connect the fields.



Return ditch back
to the Ross East
End Drain along
Dixie RD.



Water heading to
the Ross East End
Drain.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

September 26, 2017

COPY

G O INVESTMENTS IDAHO LLC
24034 BATT CORNER RD
PARMA, ID 83660

RE: Scheduling Field Exam for Water Right Permit No. 63-11306

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **2.86 cfs** of **UNNAMED STREAM** water for **WILDLIFE** use. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty (30) days or October 18, 2017 at (208) 334-2190 to either schedule an examination or submit a relinquishment or assignment form.

Sincerely,

Aaron Skinner
Water Resource Agent

Enclosures: Relinquishment of Permit form
Assignment of Permit form
Water Permit Report and Map

IDAHO DEPARTMENT OF WATER RESOURCES
WESTERN REGION
2735 Airport Way
Boise, Idaho 83705-5082

RETURN SERVICE REQUESTED

Returned with letter dated Sept. 18, 2017
New letter sent Sept. 26, 2017 to forwarding address.

PRESORTED
FIRST CLASS



U.S. POSTAGE >>> PITNEY BOWES



ZIP 83702 \$ 000.37³
02 1W
0001393358 SEP 18 2017

.K5

RECEIVED

SEP 25 2017

WATER RESOURCES
WESTERN REGION

841 NEE 13003160009/22/17
FORWARD TIME EXP RTN TO SEND
1680 INVESTMENTS
24034 BATT CORNER RD
PARMA ID 83660-7308

RETURN TO SENDER



83705-5082



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
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September 18, 2017

COPY

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Water Resource Agent

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Assignment of Permit form
Water Permit Report and Map