

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-13709

Exam Date: 6/11/2014

1. Current Owner: IDAHO HOLDINGS LLC
ATTN: HORACE GRAY
5004 MONUMENT AVE STE 200
RICHMOND VA 23230
(307)732-2028

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

GROUND WATER
UNNAMED STREAM

TRIBUTARY

TETON RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 22-13247 (Mitigation & Irrigation)
2. Other water rights with the same point of diversion:

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

UNNAMED STREAM NE1/4SE1/4 Sec. 33, Twp 05N, Rge 45E, B.M.	TETON County
GROUND WATER NE1/4SE1/4 Sec. 33, Twp 05N, Rge 45E, B.M.	TETON County
GROUND WATER NE1/4SE1/4 Sec. 33, Twp 05N, Rge 45E, B.M.	TETON County
UNNAMED STREAM NE1/4SE1/4 Sec. 33, Twp 05N, Rge 45E, B.M.	TETON County

Method of Determination: Site Visit, GPS (-111.143783, 43.714456 & -111.142, 43.713)

2.

PLACE OF USE: WILDLIFE STORAGE

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	45E	33																	X

Method of Determination: Site Visit

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ___x___ 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___ Aerial Photo Attached (required for irrigation of 10+ acres).
- ___x___ Photo of Diversion and System Attached

4.

Well or Diversion

<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 Size</u>
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*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement

<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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Flow Treker

2. Measurements: Pond #1 No surface water flow... Pond #2 0.336 cfs

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

F. 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:

See attached Pond calculation sheets.. Pond #1 = 1.0 AF Pond #2 = 0.6 AF

G. NARRATIVE/REMARKS/COMMENTS

Completed BUE 6/11/2014, POD and POU for pond #2 is in the wrong location. There was no surface water flow into Pond #1 at the time of the field exam. However, there has been surface water flow recently into this pond based on soil and vegetation conditions. Pond #2 has surface water flow, however there is only one POD listed for surface water and there are clearly two surface water POD's and two groundwater POD's. The application and supporting permit documentation are ambiguous and another surface water POD should have been added at the time of application.

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 STORAGE	01/01 to 12/31		1.60 AF
DIVERSION TO STORAGE	04/15 to 10/15	0.100 CFS	
Totals:		0.100 CFS	1.60 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 Karin Mathews Date 6.11.14

Reviewer _____ Date _____

Pond # 1

PRECIPITATION DEFICIT CALCULATIONS FOR PONDS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL EVAP IN AF
mm/Day *	0.0	0.0	0.4	1.4	2.1	3.2	3.3	3.2	1.9	1.0	0.0	0.0	
mm/Month	0.0	0.6	12.4	41.1	64.5	94.8	103.2	97.7	58.2	29.5	0.0	0.0	
ft/Month	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.0	0.0	
Surface Area in Acres	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
acre-feet	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.5
* Based on percipitation deficites provided by University of Idaho, http://data.kimberly.uidaho.edu/ETIdaho/													

POND SIZE:	WIDTH X LENGTH	SQ FT	ACRES
			0.3

JAN	FEB	MAR	APR
31.0	28.0	31.0	30.0
MAY	JUN	JUL	AUG
31.0	30.0	31.0	31.0
SEPT	OCT	NOV	DEC
30.0	31.0	31.0	31.0

mm to ft 0.0032808

Crop type =	Grass Pasture
CIR in AF/ACRE	2.5

If applicable, acres need to dry up for evaporation
0.4

Pond size in acres	0.3
Average depth in ft	1.6
AF needed to Fill	0.5

4*.4 = 1.6
Average depth=max depth x .40

TOTAL AF FOR POND	1.0
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Data entry in green

Pond # 2

PRECIPITATION DEFICIT CALCULATIONS FOR PONDS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL EVAP IN AF
mm/Day *	0.0	0.0	0.4	1.4	2.1	3.2	3.3	3.2	1.9	1.0	0.0	0.0	
mm/Month	0.0	0.6	12.4	41.1	64.5	94.8	103.2	97.7	58.2	29.5	0.0	0.0	
ft/Month	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.0	0.0	
Surface Area in Acres	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
acre-feet	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.3
* Based on percipitation deficites provided by University of Idaho, http://data.kimberly.uidaho.edu/ETIdaho/													

POND SIZE:	WIDTH X LENGTH	SQ FT	ACRES
			0.2

mm to ft 0.0032808

JAN	FEB	MAR	APR
31.0	28.0	31.0	30.0
MAY	JUN	JUL	AUG
31.0	30.0	31.0	31.0
SEPT	OCT	NOV	DEC
30.0	31.0	31.0	31.0

Crop type =	Grass Pasture
CIR in AF/ACRE	2.5

If applicable, acres need to dry up for evaporation
0.3

Pond size in acres	0.2
Average depth in ft	1.6
AF needed to Fill	0.3

4*.4 = 1.6
Average depth=max depth x .40

TOTAL AF FOR POND	0.6
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Data entry in green

Field Exam 22-13709 – June 11, 2014



Pond #1 – Looking NE



Pond #1 – Outlet looking NW



Pond # 1 – Surface water inlet, looking East



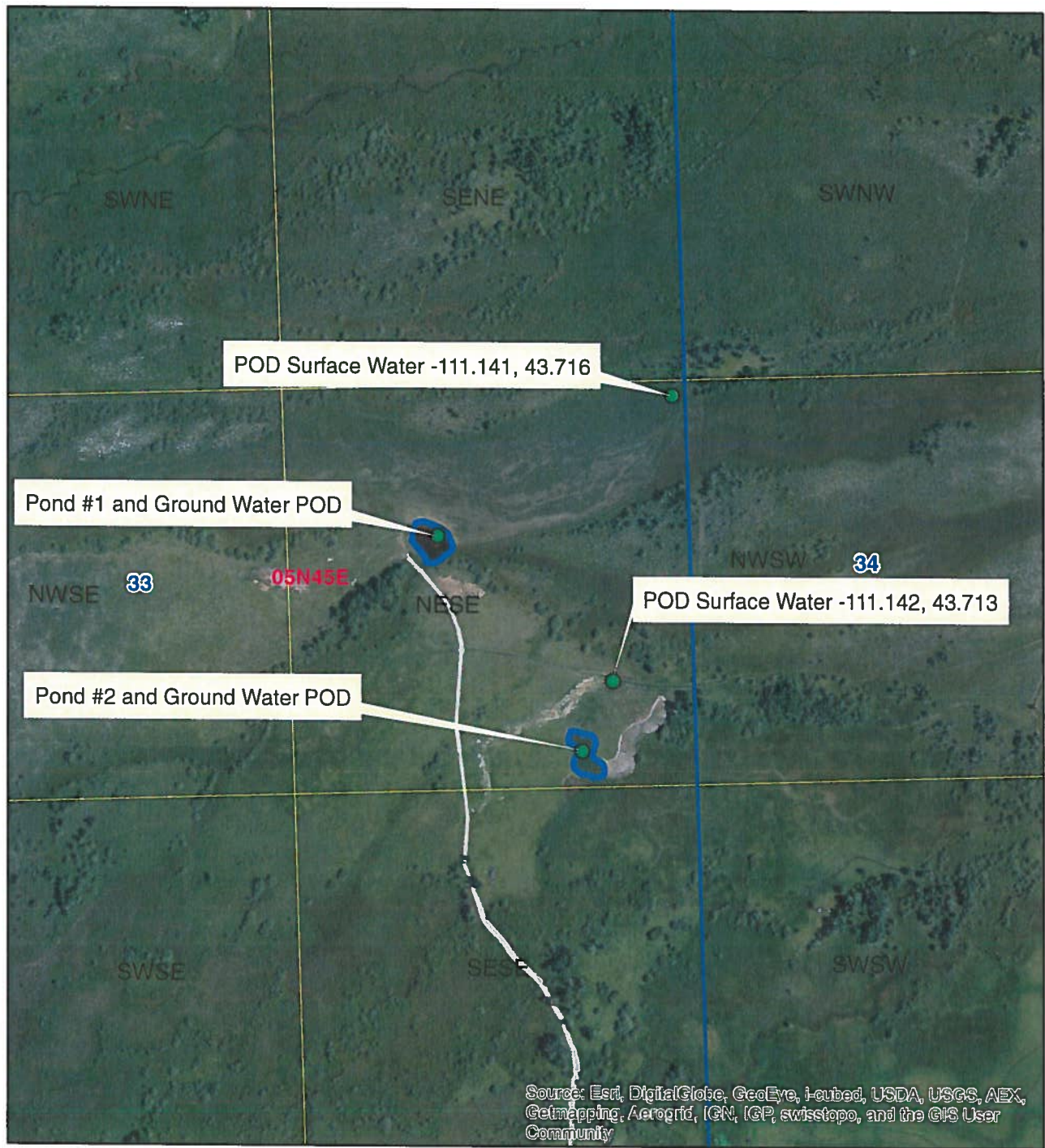
Pond # 2 looking South



Pond # 2 inlet



Pond # 2 outlet, looking North



22-13709 - Field Exam - June 11, 2014

- 22-13709 Ponds
- Township/Range
- Sections
- QQ



Rocky Mountain
ENVIRONMENTAL
ASSOCIATES, INC.

WA

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DEC 08 2009

DEPARTMENT OF
WATER RESOURCES

December 2, 2009

Shelley W. Keen
Idaho Department of Water Resources
P.O. Box 83720
Boise, Idaho 83720-0098

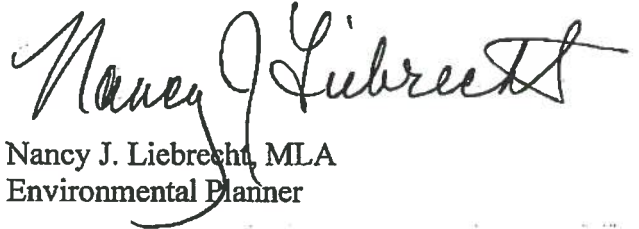
Dear Mr. Keen:

Re: Permit No, 22-13709

I writing to advise you that Idaho Holdings, LLC, has installed a lockable headgate and a staff gauge on its irrigation diversion from the adjoining property and upstream water user (see attached photographs). This is in response to conditional approval #8 of Water Permit #22-13709. We previously requested relief from this requirement in a letter sent to you on May 23, 2009, but we were subsequently advised that we should comply with the requirement. This has been done.

If you or the local watermaster has any further questions or comments on this matter, please do not hesitate to contact us, and we will be glad to respond.

Yours truly,



Nancy J. Liebrecht, MLA
Environmental Planner

Copy to: Tony Olenichak



Headgate drilled so that a lock may be placed when gate is closed.



Staff gauge purchased at IDWR in Idaho Falls installed in Fall of 2009.



Rocky Mountain
ENVIRONMENTALSM
ASSOCIATES, INC.

WA
RECEIVED
JUN 01 2009
DEPARTMENT OF
WATER RESOURCES

May 28, 2009

Shelley W. Keen
Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098

Dear Mr. Keen:

Re: Permit No. 22-13709

Idaho Holdings, LLC, received notice that the Idaho Department of Water Resources (IDWR) had established a new water right permit for water storage to maintain two wildlife ponds on property in Teton County (Section 33, Township 5N, Range 45E). The source of water for the ponds is both groundwater and surface water. The new water right requires that Idaho Holdings Must construct lockable headgates and measuring devices on the ditches transporting water to the subject ponds. We are asking for relief from these requirements.

Each pond is at the terminus out an irrigation ditch that transports water from the neighboring property to the East. If water overflows either pond there is no ditch or other conveyance to transport water downstream to the west (see attached map of Pond Locations). On those occasions when there is overflow water, it spreads out in wetlands and pastures to the west of the ponds. Since there is no means of transporting water to a downstream user, lockable headgates and measuring devices seem unnecessary. Furthermore, the ponds only receive irrigation water when the landowner to the east can divert it to them. This arrangement is completely acceptable to Idaho Holdings, LLC. There have been no complaints or problems with the amount of water received. Indeed, the ponds are largely sustained by groundwater from a shallow watertable. This is solely a water storage right.

There is a relatively new headgate to the southern most of the two ponds (Pond 2). This headgate facilitates water management between the pond and a tributary ditch. The head gate can be altered to become a lockable gate, but that does not seem to be necessary since water cannot be conveyed to a downstream user via the ditch to the pond or via its tributary ditch. Again, all irrigation water passing through these two ditches ultimately spreads out over pasture on the subject property.

We have discussed the requirements and our rationale for requesting relief with Tony Olenichak, the Assistant Watermaster for this water district. Mr. Olenichak has agreed that our request is reasonable, but he does not rule on this matter. He did state that he would discuss the issue with you and apprise you his opinion.

Please advise us if you have any questions regarding the subject property or the water right. If a site visit seems necessary to inspect the ponds and ditches, we would be glad to meet on the property and take you or another IDWR representative to the subject ponds and ditches.

Thank-you for your attention to this matter and apprise us of your decision.

Yours truly,

A handwritten signature in black ink, reading "Nancy J. Liebrecht". The signature is fluid and cursive, with the first name "Nancy" and last name "Liebrecht" clearly legible. The middle initial "J." is smaller and less distinct. The signature is positioned above the printed name and title.

Nancy J. Liebrecht, MLA
Environmental Planner

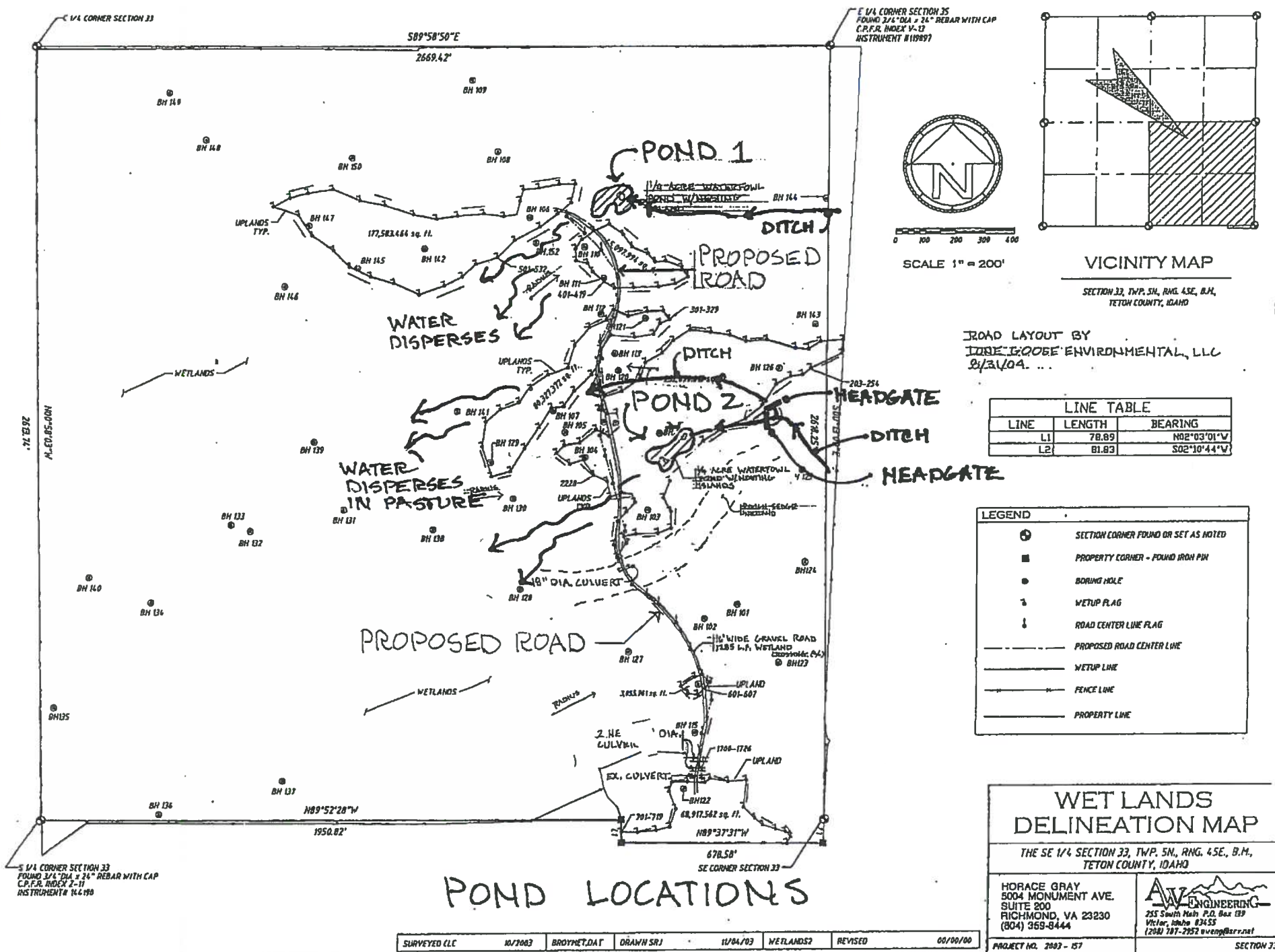
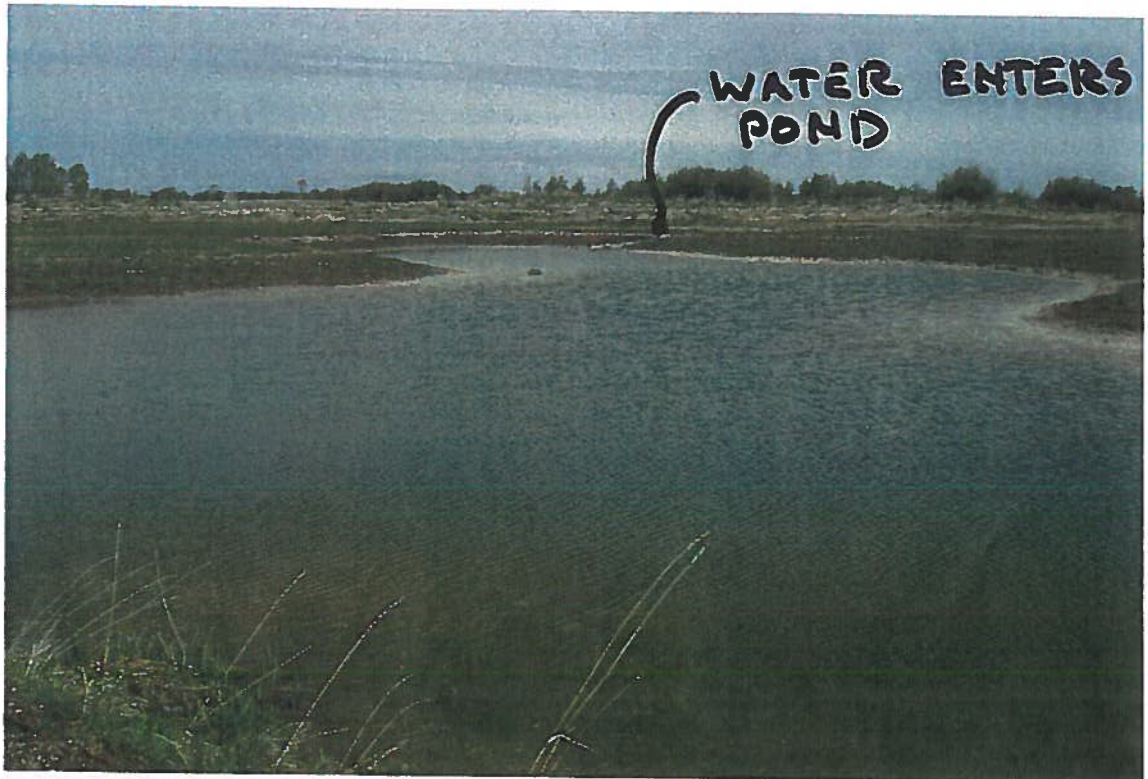


FIGURE 3



1. Headgate and ditch transporting irrigation water to Pond 2.



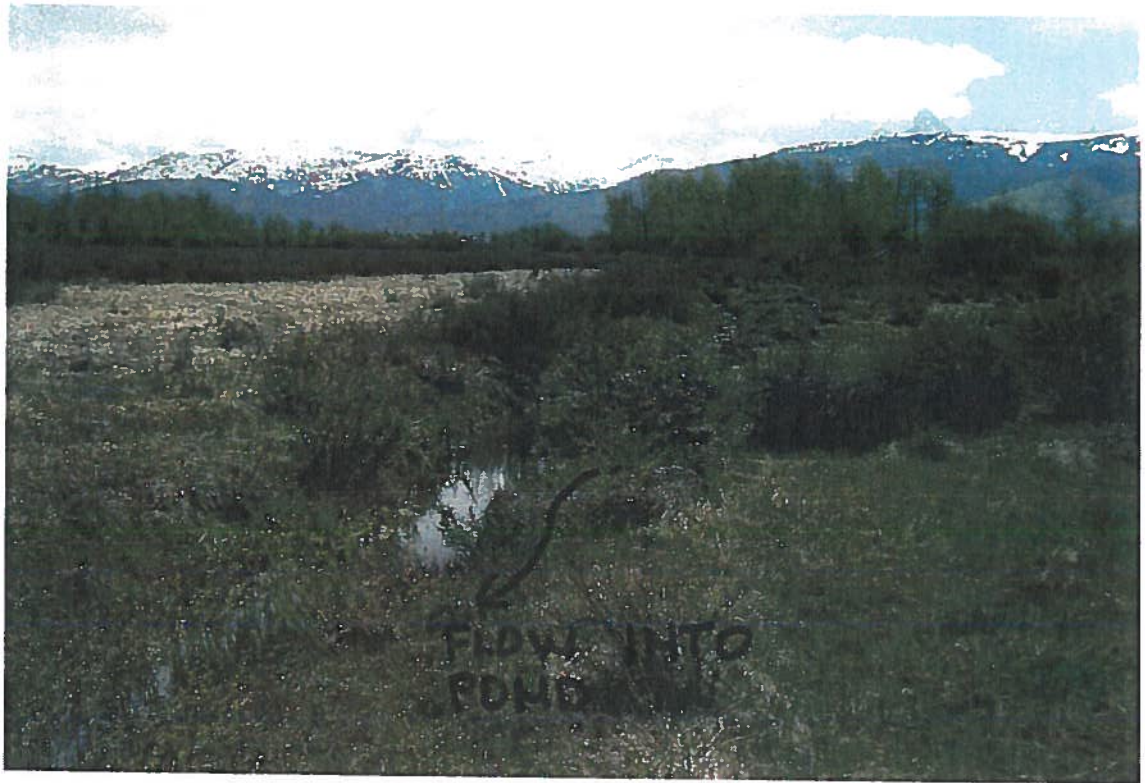
2. Pond 2 is largely sustained by groundwater, but some irrigation water will be used to top-off pond.



3. Outflow from Pond 2.



4. Overflow from Pond 2 disperses in pasture below pond.



5. Ditch carrying irrigation water to Pond 1. Water flows from neighboring property to the east into the pond.



6. Pond 1 is also largely supported by ground water, Irrigation water (when available) helps keep the pond topped-off.



7. Water flows out of Pond 1, into culver under private gravel road, and then disapates in scrub/ shrub wetland and pasture to the west of the pond.