

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-07911

Exam Date: 9/23/2016

1. Current Owner:
RIPLEY COMEGYS PO BOX 1508 BONNERS FERRY ID 83805 (208)267-5113
2. Accompanied by: Phil Allegretti
Phone No: 208-290-7747
Relationship to Permit Holder: Representative

3. SOURCE:
UNNAMED STREAM

TRIBUTARY:
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:

UNNAMED STREAM SE¼NE¼ Sec. 12, Twp 61N, Rge 01W, B.M. BOUNDARY County

Method of Determination: Maps and GPS. POD location at 48° 39.223, 116° 23.880

2.

PLACE OF USE: FIRE PROTECTION STORAGE

[illegible]

PLACE OF USE: RECREATION STORAGE

[illegible]

PLACE OF USE: STOCKWATER FROM STORAGE

[illegible]

PLACE OF USE: STOCKWATER STORAGE

[illegible]

PLACE OF USE: IRRIGATION FROM 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	
61N	01W	12				1.2													1.2

Total Acres: 1.2

PLACE OF USE: IRRIGATION 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	
61N	01W	12				X													

Method of Determination: Google Earth and Arc map.

3.

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

X 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

2. Volume Calculations for Other Uses: SEE ATTACHED POND ANALYSIS SHEETS FOR VOLUMES

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicant's representative Phil Allegretti showed a pond with source of water from an unnamed stream. Pond had a surface area of 0.8 acres and also had a small island equal to 0.06 acres. Total surface area on pond is 0.74 acres with an average depth of 10 feet. Water flowed in on the south side of pond and there was an overflow culvert in the northeast part of the dam. Culvert had boards in place so you could remove or add them to maintain the pond level. Dam was just an earthen berm with grass growing on it. There was a small dock into pond where a pump was located to divert water for irrigation and stockwater purposes. Pump would divert water from pond in 2 inch black poly pipe to the place of use.

Irrigation from the pond was only used around the house for lawn, trees, flower beds, and a garden. Total irrigation was 1.2 acres that will be given 3.6 acre feet for irrigation storage and irrigation from storage. Applicant had 15 horses in the pasture that will be given 0.2 acre of water for stockwater storage and stockwater from storage. Recreation storage and fire protection storage will be given a volume of 8.6 acre feet for the size of the pond and evaporation. Permit also included diversion to storage, recreation, stockwater, and irrigation as a cfs. Applicant did not develop the two points of diversions from Deep Creek. Those uses and the two points of diversions from Deep Creek will be removed from license. Applicant does have an old water right 98-2110 for the irrigation of 17 acres from Deep Creek. That irrigation right will not be overlapped with this right because that is for irrigation north of the home for pasture land.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER FROM STORAGE	01/01 to 12/31		0.2 AF
RECREATION STORAGE	01/01 to 12/31		8.6 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		8.6 AF
IRRIGATION STORAGE	01/01 to 12/31		3.6 AF
IRRIGATION FROM STORAGE	04/01 to 10/31		3.6 AF
STOCKWATER STORAGE	01/01 to 12/31		0.2 AF
<u>Totals:</u>			12.40 AF

2. Recommended Amendments

_____ Change P.D. as reflected above _____ Add P.D. as reflected above X None

_____ Change P.U. as reflected above _____ Add P.U. as reflected above X None

I. AUTHENTICATION

Field Examiner's Name Adam Fink Date 3-15-17

Reviewer Morgan Cox Date 3/24/17

Total Storage Calculations (Pond Only)

FILE NUMBER	98-7911
REVIEWER	Adam Frederick
DATE	3/15/2017

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.74	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	10	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	7.4	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	1.2	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	8.6	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.

Total Storage Calculations (Stockwater for 12 horses)

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Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0.2	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
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Estimated Evaporation Loss (AF)	1.2	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	8.8	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.

Total Storage Calculations (Irrigation of 1.2 acres)

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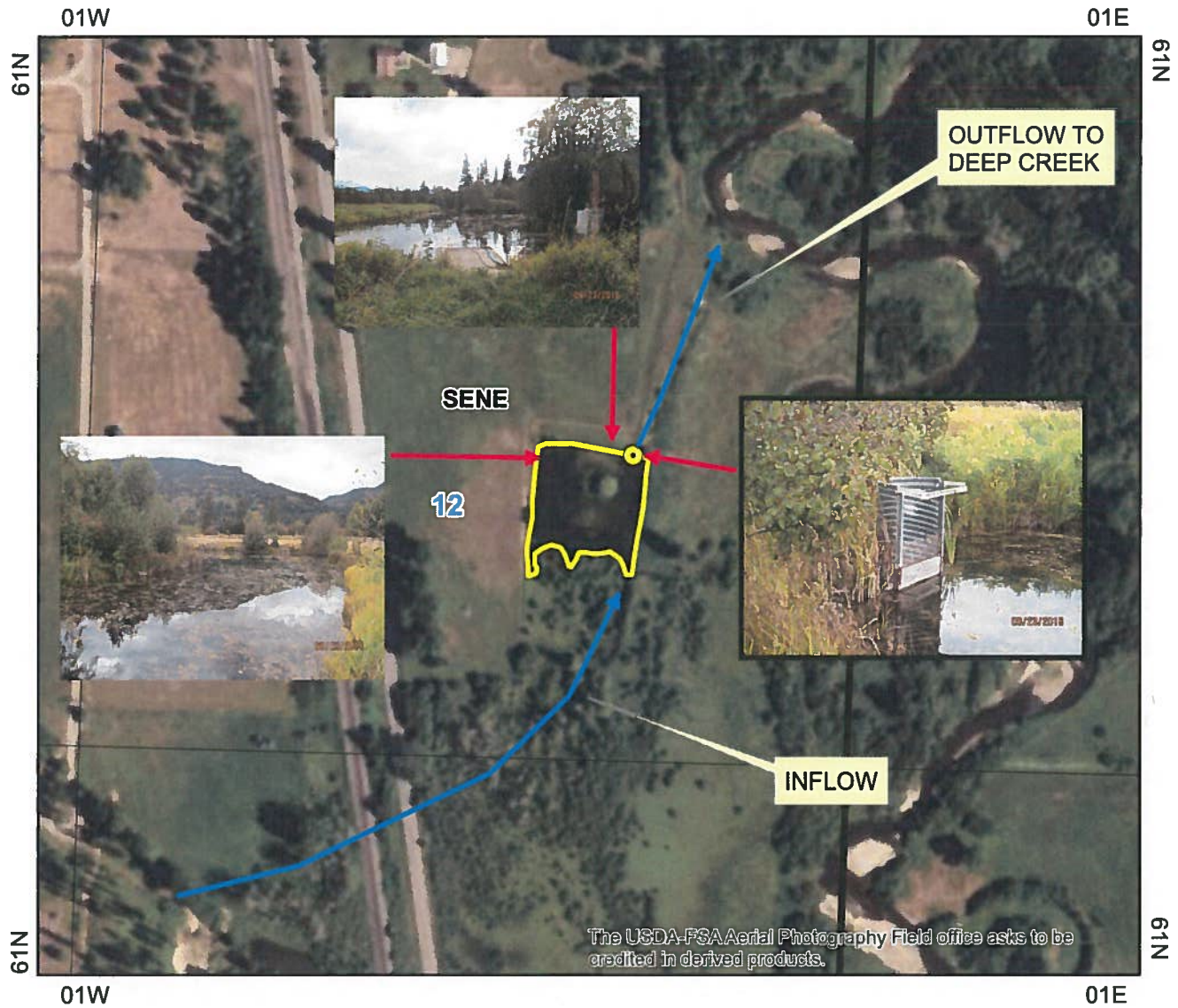
This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
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Formula Explanations

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Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	3.6	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
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Estimated Evaporation Loss (AF)	1.2	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	12.2	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.

State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7911

RECREATION STORAGE, FIRE PROTECTION STORAGE, STOCKWATER STORAGE, and IRRIGATION STORAGE
SYSTEM DIAGRAM



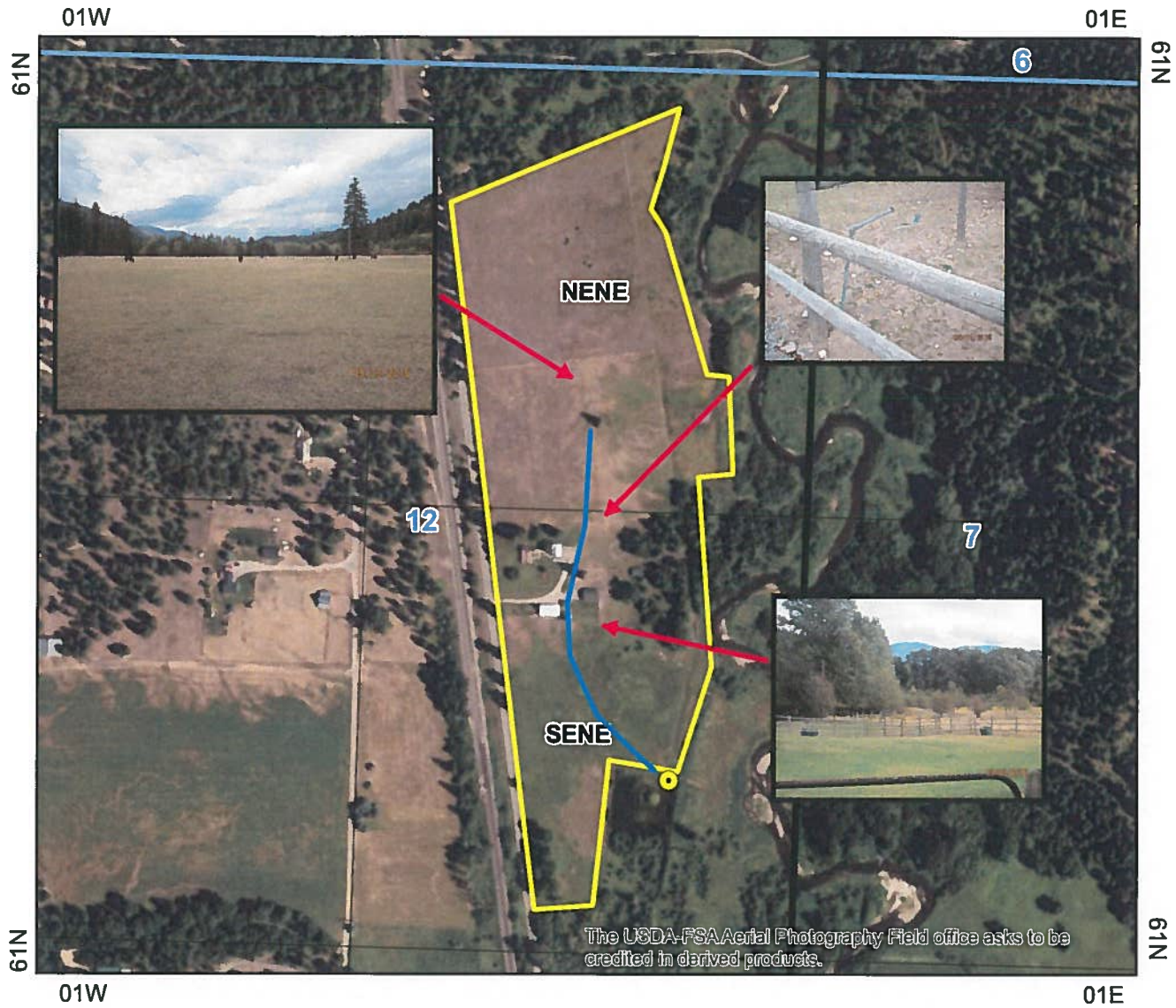
- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections

0 0.035 0.07 0.14 Miles



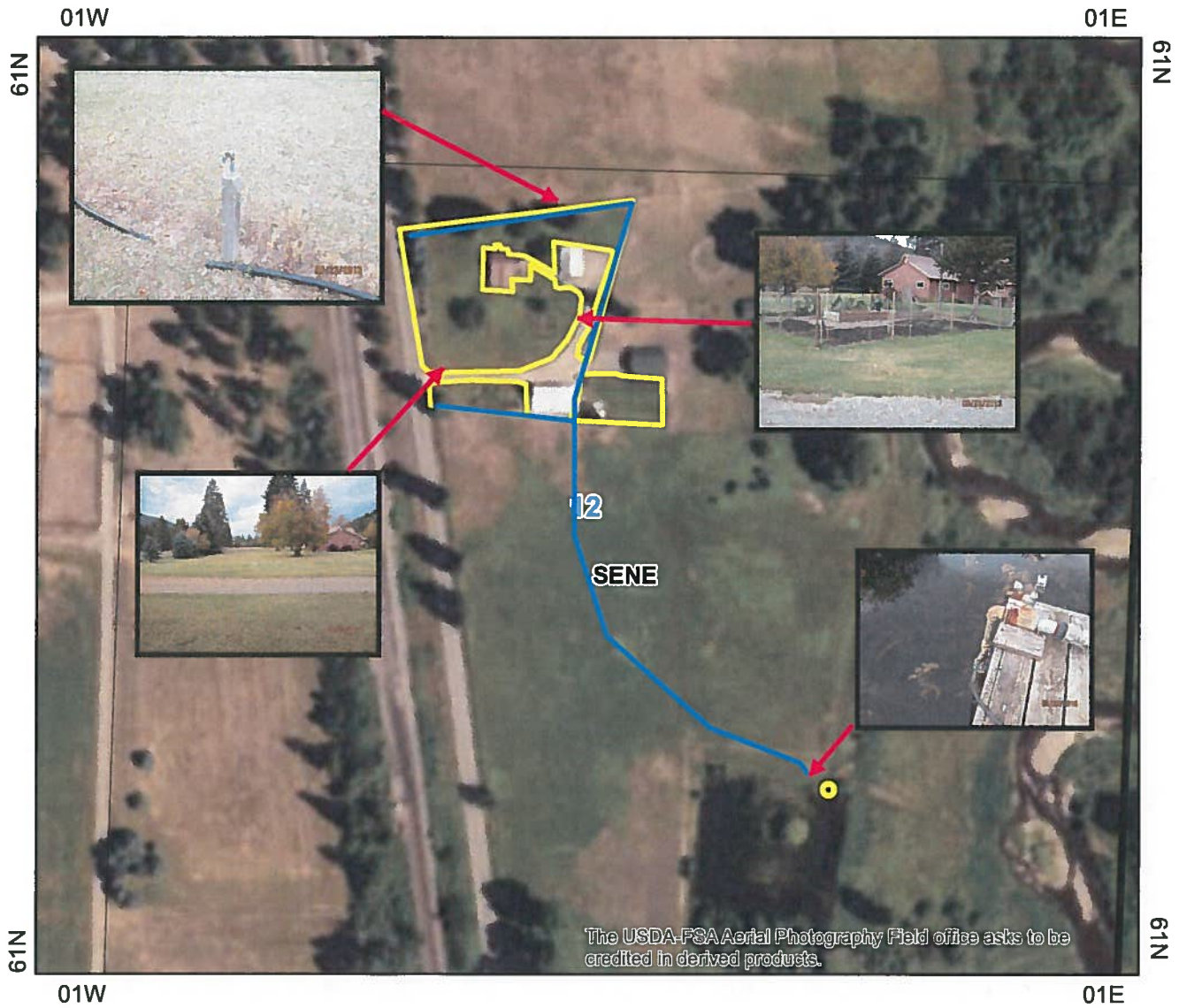
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STOCKWATER FROM STORAGE / SYSTEM DIAGRAM



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IRRIGATION FROM STORAGE / SYSTEM DIAGRAM



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

0 0.0275 0.055 0.11 Miles



CONSERVATION PLAN MAP

OPERATOR John J. Conway

Boundary

S.C.D. Idaho

APPROX. ACRES

FARM NO. 357 DATE 2-1-55

U.S. DEPARTMENT OF AGRICULTURE

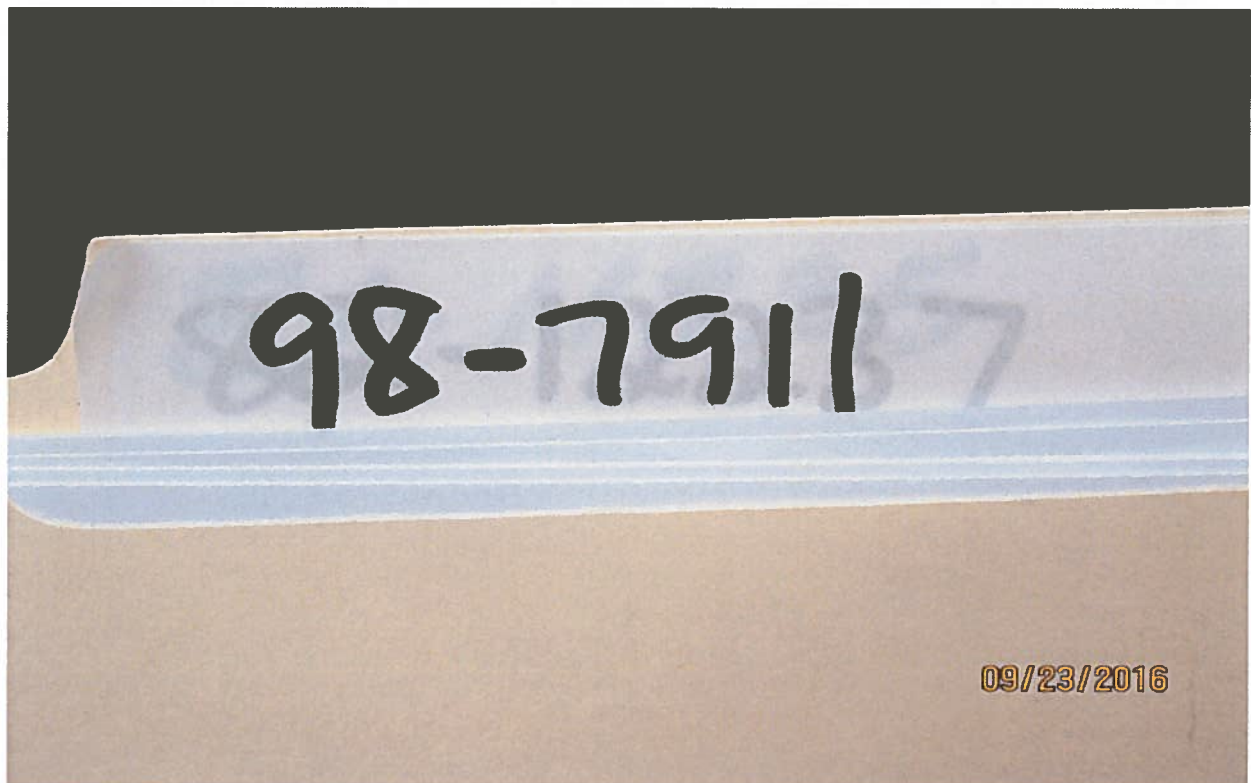
SOIL CONSERVATION SERVICE

APPROX. SCALE 8" = 1 mile

PHOTO NO. 28-201

T
62
N.





Standing on dam with discharge culvert for pond.



Water would spill over board once water level got that high. Board could also be removed to lower pond level.





Diversion system from pond.



Piping going from pond to place of use. Pipe is buried from here.



Overview of pond, dock, electrical box, and piping.



Irrigation of yard.



Orchard.



Tripod for irrigation. Applicant had already stopped irrigating at time of exam due to cold temperatures.



Home, yard, and garden area.



Stockwatering tanks.



Garden.



Frost free hydrant for use for irrigation or stockwater filling.





Horses.