

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-16982
Exam Date: 11/25/2019

1. Current Owner:
MICHAEL J SIRUCEK 472A S 1000 E JEROME ID 83338-6854
2. Accompanied by: In-house exam utilizing IDWR Dam Safety records
Phone No:
Address:
Relationship to permit Holder:

3. **SOURCE:**
WASTE WATER

Tributary
SINKS

Method of Determination: On-site Inspection by Dam Safety & Other IDWR Staff

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
36-4193	Ground Water	Irrigation (56 acres within 476 acre PPU)	Decreed
36-8569	Ground Water	Irrigation (67 acres within 476 acre PPU)	License
36-16956	Waste Water	Irrigation (25.3 acres in 476 acre PPU); Aesthetic & Recreation Storage	Decreed
36-16957	Waste Water	Irrigation (23.7 acres in 476 acre PPU); Aesthetic & Recreation Storage	Decreed
36-16958	Waste Water	Irrigation (124.7 acres in 476 acre PPU); Aesthetic & Recreation Storage	Decreed
36-16959	Waste Water	Irrigation (116.9 acres in 476 acre PPU); Aesthetic & Recreation Storage	Decreed
36-16960	Waste Water	Irrigation (16.8 acres in 476 acre PPU); Aesthetic & Recreation Storage; Stockwater	Decreed
36-16961	Waste Water	Irrigation (16.0 acres in 476 acre PPU); Aesthetic & Recreation Storage; Stockwater	Decreed

2. Other water rights with the same point-of-diversion: Yes Overlap

Water Right No.	Source	Purpose of Use	Basis
36-16956	Waste Water	Irrigation (56 acres within 476 acre PPU)	Decreed
36-16957	Waste Water	Irrigation (67 acres within 476 acre PPU)	License
36-16958	Waste Water	Irrigation (25.3 acres in 476 acre PPU); Aesthetic & Recreation Storage	Decreed
36-16959	Waste Water	Irrigation (23.7 acres in 476 acre PPU); Aesthetic & Recreation Storage	Decreed

36-16960	Waste Water	Irrigation (124.7 acres in 476 acre PPU); Aesthetic & Recreation Storage	Decreed
36-16961	Waste Water	Irrigation (116.9 acres in 476 acre PPU); Aesthetic & Recreation Storage	Decreed

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

WASTE WATER NW¼ NE¼, Sec. 14, Twp 09S, Rge 18E, B.M. JEROME County

WASTE WATER SE¼ NW¼, Sec. 14, Twp 09S, Rge 18E, B.M. JEROME County

WASTE WATER NE¼ NW¼, Sec. 14, Twp 09S, Rge 18E, B.M. JEROME County

Method of Determination: On-site Inspection by Dam Safety & Other IDWR Staff

PLACE OF USE: IRRIGATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	18E	14		X	X		X			X									

PLACE OF USE: IRRIGATION FROM STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	18E	11															22.0	1.0	23.0
09S	18E	14		27.0			17.0	25.0	40.0	24.0	40.0	40.0							213.0
09S	18E	15	40.0	40.0	40.0	40.0									40.0	40.0			240.0

Right Acre Limit: 323.0

Total Acres: 476.0

PLACE OF USE: RECREATION STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	18E	14		X	X		X			X									

PLACE OF USE: AESTHETIC STORAGE

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	18E	14		X	X		X			X									

Method of Determination: On-site Inspection by Dam Safety & Other IDWR Staff and Aerial Imagery

3.

X 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 ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
WMIS# 1001461					
WMIS #1001462					

D. FLOW MEASUREMENTS

1.

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

2. Measurements: Volume Only, No Flow Measurements.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: Volume Only, No Flow Measurements.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 323.0 \text{ Acres} \times 4.0 \text{ AFA} = \mathbf{1,292.0 \text{ AF}}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \text{N/A}$$

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

2. Volume Calculations for Other Uses: Recreation and Aesthetic storage for this permit will allow for maintenance of the reservoir level as it fluctuates during the irrigation system and both beneficial uses are based on estimated seepage losses from the reservoir. Seepage losses were estimated at 0.25 ft/day. Waste water typically flows into the reservoir during the irrigation season (200 days):

$$0.25 \text{ af/day} \times 18.9 \text{ acres} \times 200 \text{ days} = \mathbf{945 \text{ AF}}$$

G. NARRATIVE/REMARKS/COMMENTS

This application for permit was filed with the Department on 5/1/2013 along with a companion transfer. This permit application was filed seeking to authorize waste water storage in a developed reservoir. The companion transfer dried up 72 acres under water rights 36-16956, 36-16957, 36-16958, 36-16959, 36-16960 and 36-16961 to provide for the reservoir storage volume (143 acre-feet) and evaporative losses (44.6 acre-feet) allowed under this permit (187.6 acre-feet total).

Storage capacity for this reservoir was verified by IDWR Dam Safety staff. Per information from the Dam Safety file, In the cover letter accompanying the Certificate of Approval addressed to Michael Sirucek, John Falk, PE, Dam Safety Manager indicated the dam consisted of "two (2) embankment dams, a concrete flashboard spillway, low-level outlet, and several small earthen dikes is suitable for impoundment of water not to exceed a height greater than 2.5 feet above the concrete floor slab in the emergency overflow spillway. According to information submitted by your engineer (Brockway Engineering), the maximum operating level corresponds to a storage capacity approximately 143 acre-feet." See Attachment #1 for as built reservoir construction and Attachment #2 for reservoir storage capacity curve.

Irrigation storage volume was based on the combined limit of 323 acres of irrigation (allowed under this permit and water rights 36-4193, 36-8569, 36-16956, 36-16957, 36-16958, 36-16959, 36-16960 and 36-16961) multiplied by the allowed

irrigation diversion volume of 4.0 acre-feet per acre, which equals 1292 acre-feet. According to the permit, since no new acres will be irrigated and irrigation is limited to volumes authorized under existing water rights, mitigation for irrigation storage and irrigation from storage is not required.

Recreation storage and aesthetic storage volumes are based on estimated seepage losses from the reservoir estimated at 0.25 acre-feet /day over the course of the irrigation season, which based on the 18.9 acres surface area of the reservoir (0.25 af/day x 18.9 acres x 200 days) is equal to 945 acre-feet. The aesthetic and recreation storage allows for maintenance of the reservoir level during the irrigation season as the levels fluctuate. Mitigation for seepage is not required since the waste water from this ditch never returned to a surface water source and seeped naturally. Therefore, the seepage is not a new consumptive use.

The Watermaster for Water District 130 provided a recommendation indicating the requirement for a measuring device for this permit was waived and indicated the condition on the permit requiring measuring devices should be modified to read "Upon specific notification", as waste water is not currently measured in Water District 130.

Recommend licensing beneficial uses and volumes as permitted.

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>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION STORAGE	01/01 to 12/31		1,292.0 AF
IRRIGATION FROM STORAGE	03/15 to 11/15		1,292.0 AF
RECREATION STORAGE	01/01 to 12/31		945.0 AF
AESTHETIC STORAGE	01/01 to 12/31		945.0 AF

Totals:

2,237.0 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

Bill Mills - Water Resource Agent, Senior

Field Examiner's Name Bill Mills Date 11-26-2019

Reviewer _____ Date _____



Figure 1: Looking across reservoir towards east dam



Figure 2: Looking south across west dam



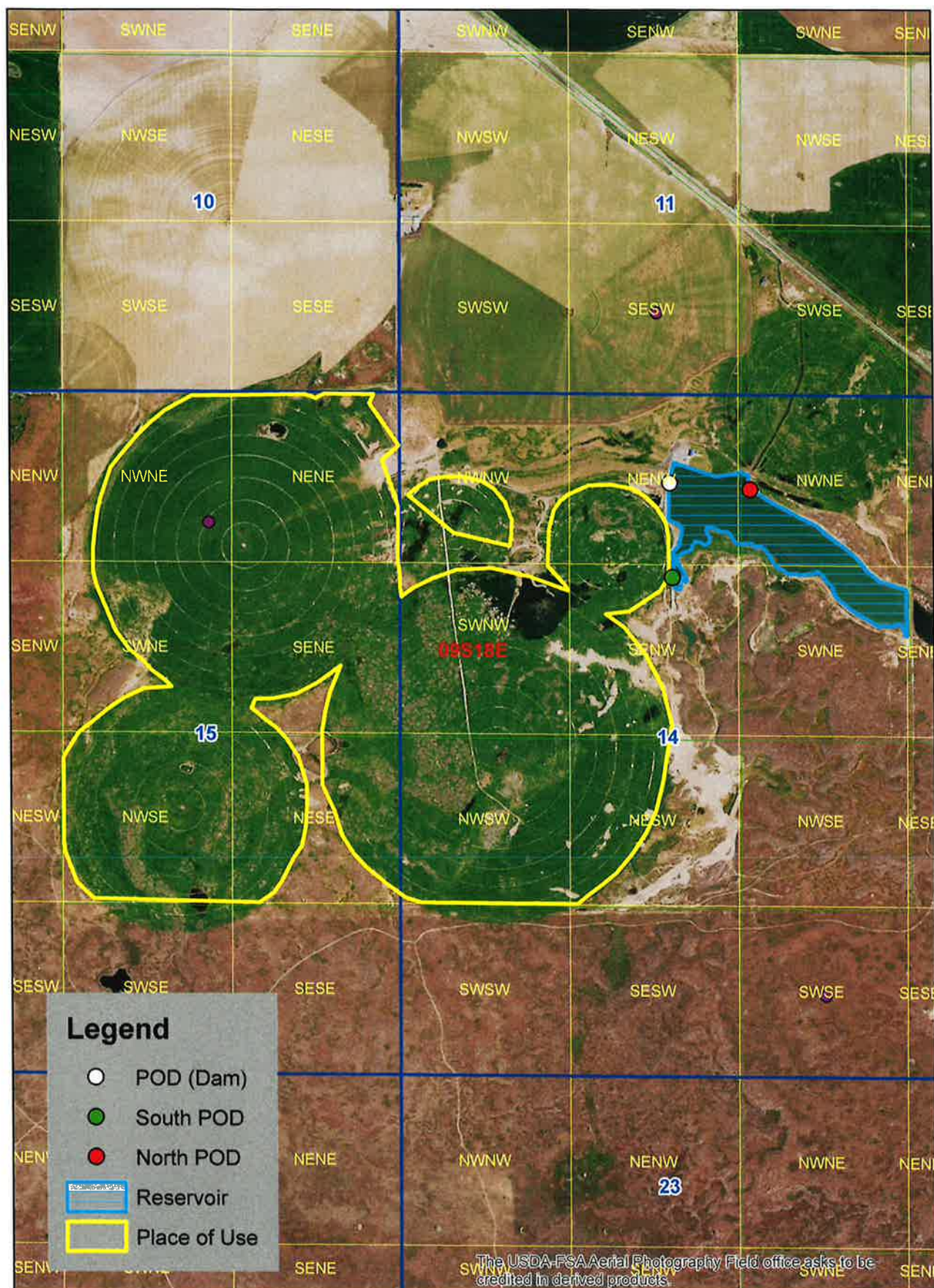
Figure 3: North POD, pump station left of power pole



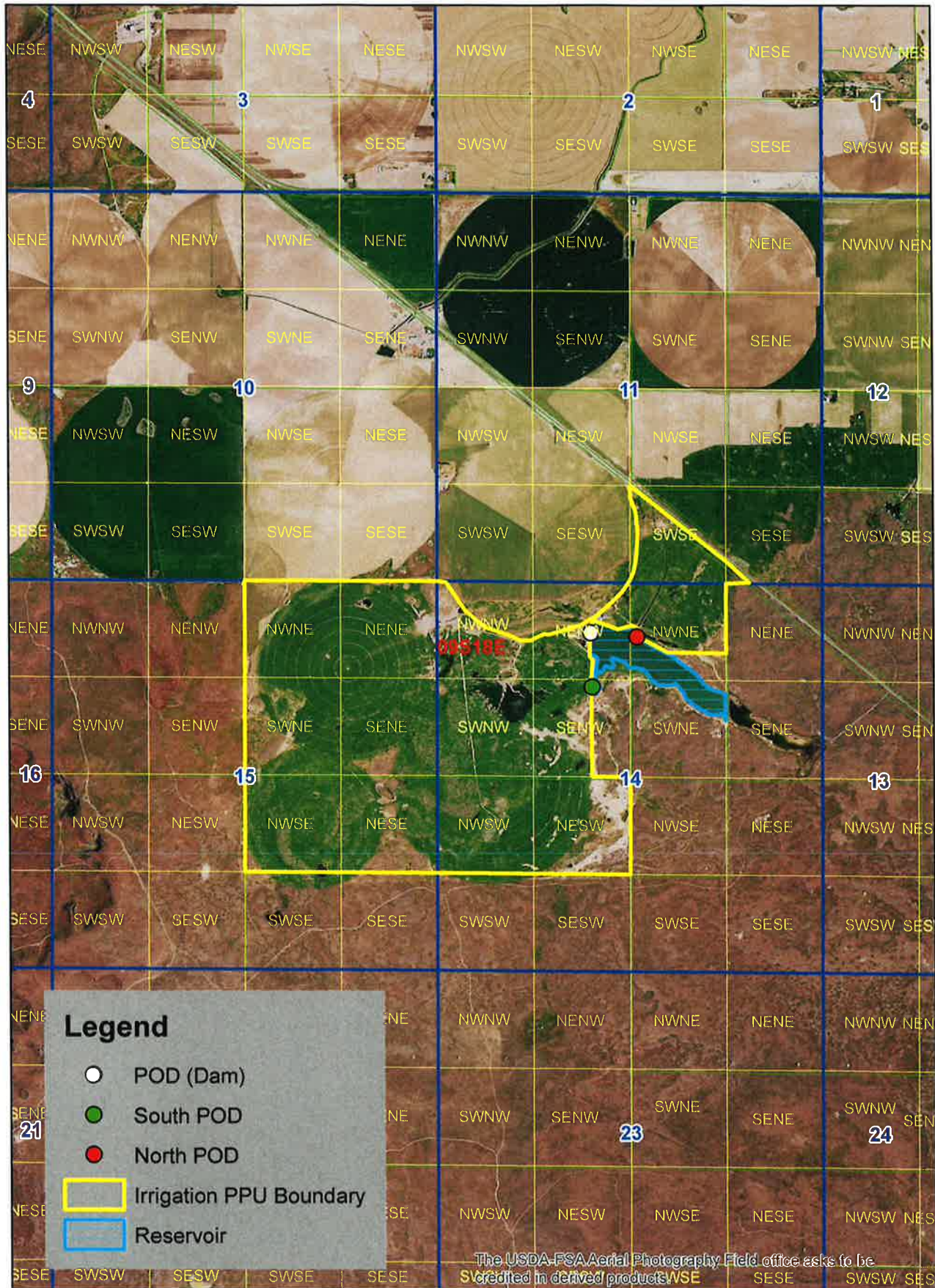
Figure 4: Looking south across spillway bay on southwest side of reservoir.

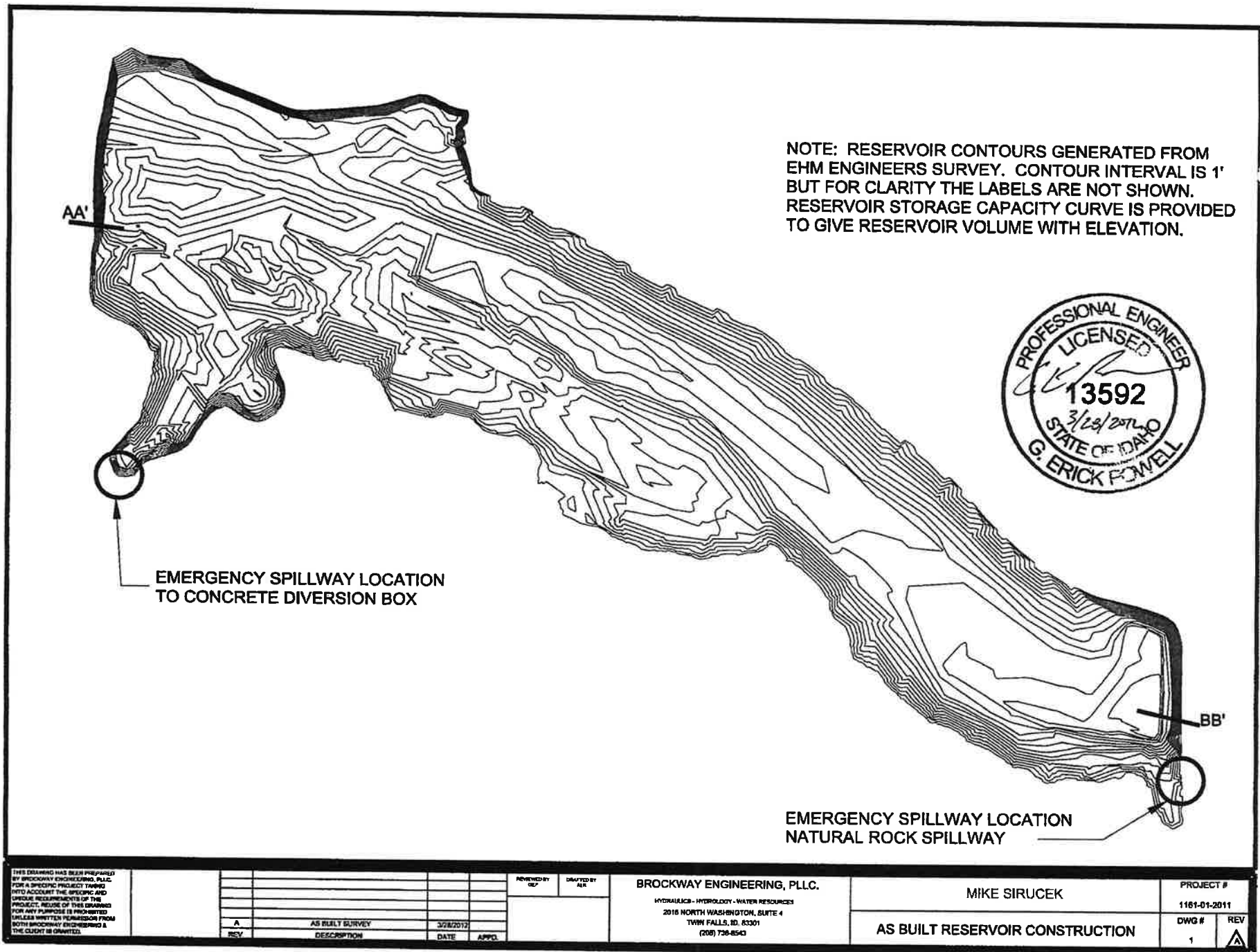
Box in center of photo is the south POD, an inlet box to a buried conduit which also is used deliver water to pivots

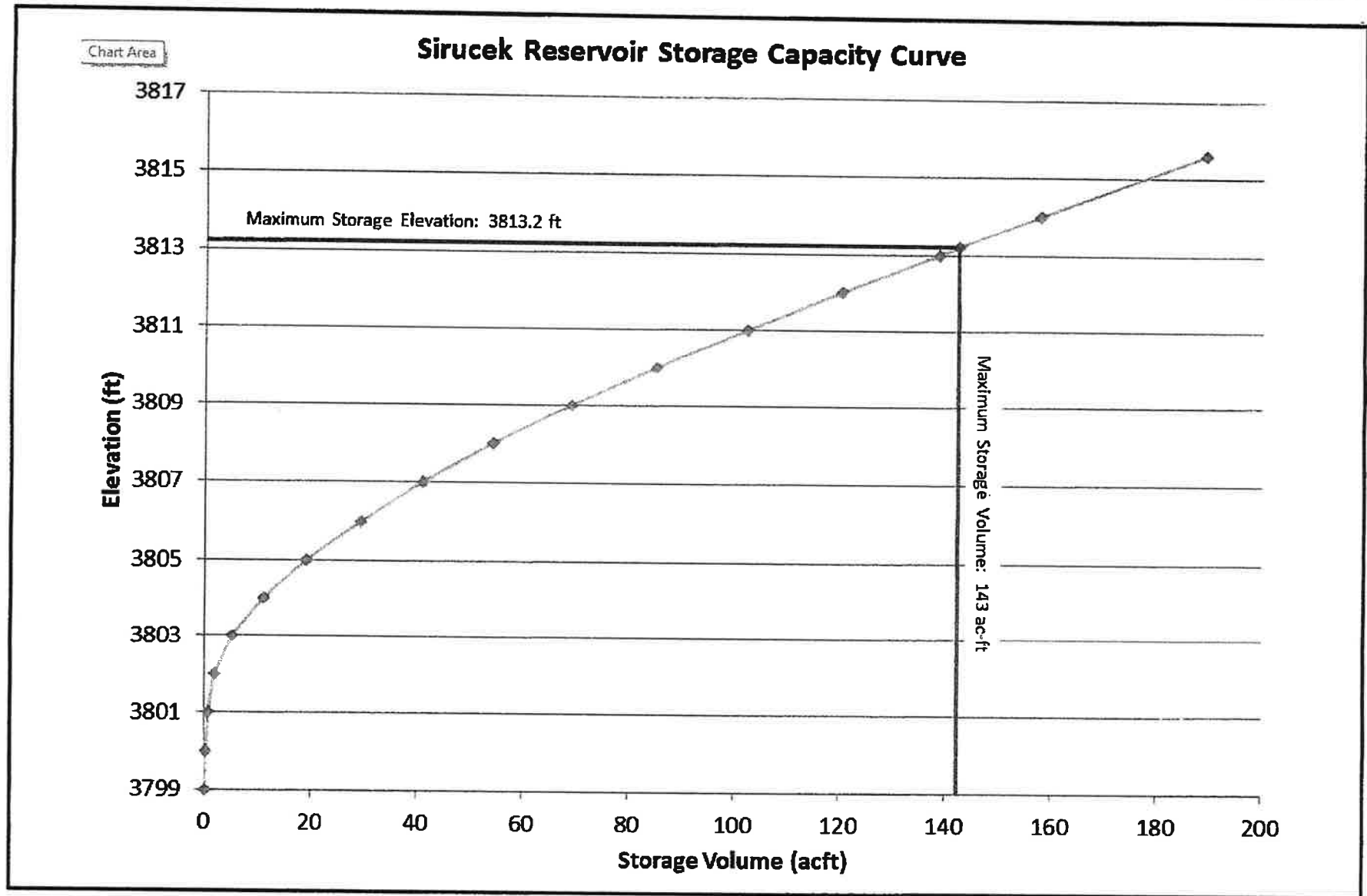
System Diagram



Irrigation PPU Boundary







SIRUCEK RESERVOIR STORAGE CAPACITY CURVE

MIKE SURUCEK

T9S R18E SECTION 14, JEROME COUNTY

BROCKWAY ENGINEERING, PLLC
GEP - MARCH 28, 2012