

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-14248

Exam Date: 4/30/2013

1. Current Owner: CITY OF COUNCIL
PO BOX 606
COUNCIL ID 83612
(208)253-4201
2. Accompanied by: Dave Wilson
Phone No: Same
Address: Same
Relationship to Permit Holder: Public Works Director

3. **SOURCE**

GROSSEN CREEK

TRIBUTARY

WEISER RIVER

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 SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROSSEN CREEK
ADAMS County

NE1/4SE1/4

Sec. 10, Twp 16N, Rge 01W, B.M.

Method of Determination: Arc Map (Aerial Photo); GPS - Latitude N.44°44.120', Longitude W.116°26.204'; Datum – NAD83.

2.

PLACE OF USE: RECREATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
16N	01W	10															X		

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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 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>
N/A	N/A			N/A	10"

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements: No field measurement. No discharge from Grossen Creek due to low water level in Grossen Creek.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: (Continuity Equation) – Assume a Full Pipe

$$Q = VA = 2 \text{ ft/sec} \times 0.55 \text{ ft}^2 = 1.10 \text{ cfs}$$

$$V = 2 \text{ ft/sec (Estimated)}$$

$$A = 0.55 \text{ ft}^2$$

It appears that the capacity of the 10" steel diversion pipe is not capable of attaining the permit diversion rate of 2.09 cfs. However, with the elimination of the proposed 51.0 acres of irrigation, which would require a diversion rate of 1.02 cfs, the estimated capacity for the 10" steel diversion pipe appears capable of meeting the City of Council's requirements for maintaining the necessary water levels in the recreation storage pond. Recommend the theoretical pipe capacity of 1.10 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses: (Recreation Storage Pond)

Pond Area: 1.0 ac.

Maximum Pond Depth: 15'

$$V = 1.0 \text{ ac} \times 15' = 15.0 \text{ AF}$$

$$V(\text{permit}) = 14.0 \text{ AF} < 15.0 \text{ AF}$$

Recommend the Permit Volume of 14.0 AFA.**G. NARRATIVE/REMARKS/COMMENTS****WATER SUPPLY SYSTEM:**

Water from Grossen Creek is diverted by a 10" wheel gate mounted on a concrete head wall. Water is conveyed approximately 720 lineal feet in 10" steel pipe to a 14.0 AF recreation storage pond, which is located westerly and adjacent to Galena Street. Water is discharged to the recreation storage pond through a 10" steel stand pipe located at the north end of the storage pond. A screened 18" CMP emergency overflow stand pipe is located near the southeast corner of the storage pond.

RECREATION STORAGE & IRRIGATION:

The City of Council diverts water approximately once a month to fill the recreation storage pond. However, the storage pond is not beneficially used for irrigation and irrigation storage. Therefore, the beneficial uses associated with irrigation, irrigation storage, and irrigation from storage have been removed.

OVERLAP ANALYSIS:

There are no point of diversion or place of use overlaps for Water Right Permit No. 67-14248.

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

CONDITION NO.4 – Prior to diversion of water under this right, the right holder shall install and maintain a measuring device and lockable controlling works. The right holder has installed a lockable controlling device on the wheel gate. However, the right holder has not installed a permanent flow measuring device at the headgate or within the 10" steel conveyance piping. On July 15, 2013, the Water Master for District 67 submitted an e-mail response approving the recommendation to waive the Department's requirement for the installation of a flow measuring device. Right holder is in compliance with Condition No.4.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	2.09	&/or	14.0
Beneficial Use Limit	2.09	&/or	N/A
System Measurement	1.10 (theoretical)	&/or	15.0
Proof Fee Amount	4.0	&/or	400
Recommended Amount	1.10	&/or	14.0

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DIVERSION TO STORAGE	01/01 to 12/31	1.10 CFS	N/A
RECREATION STORAGE	01/01 to 12/31	N/A	14.00 AF
<u>Totals:</u>		1.10 CFS	14.00 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 ___ Other

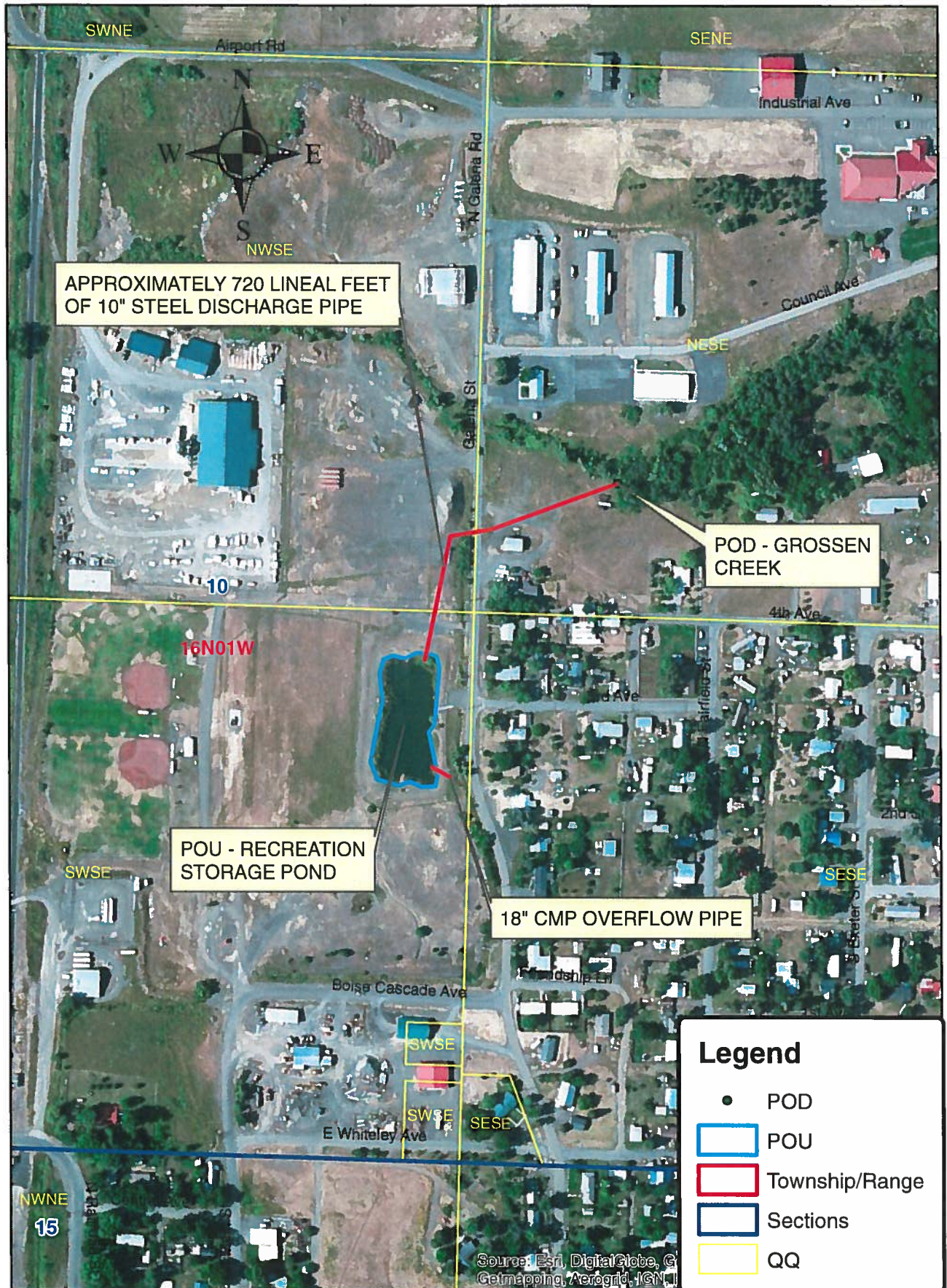
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 7/22/13

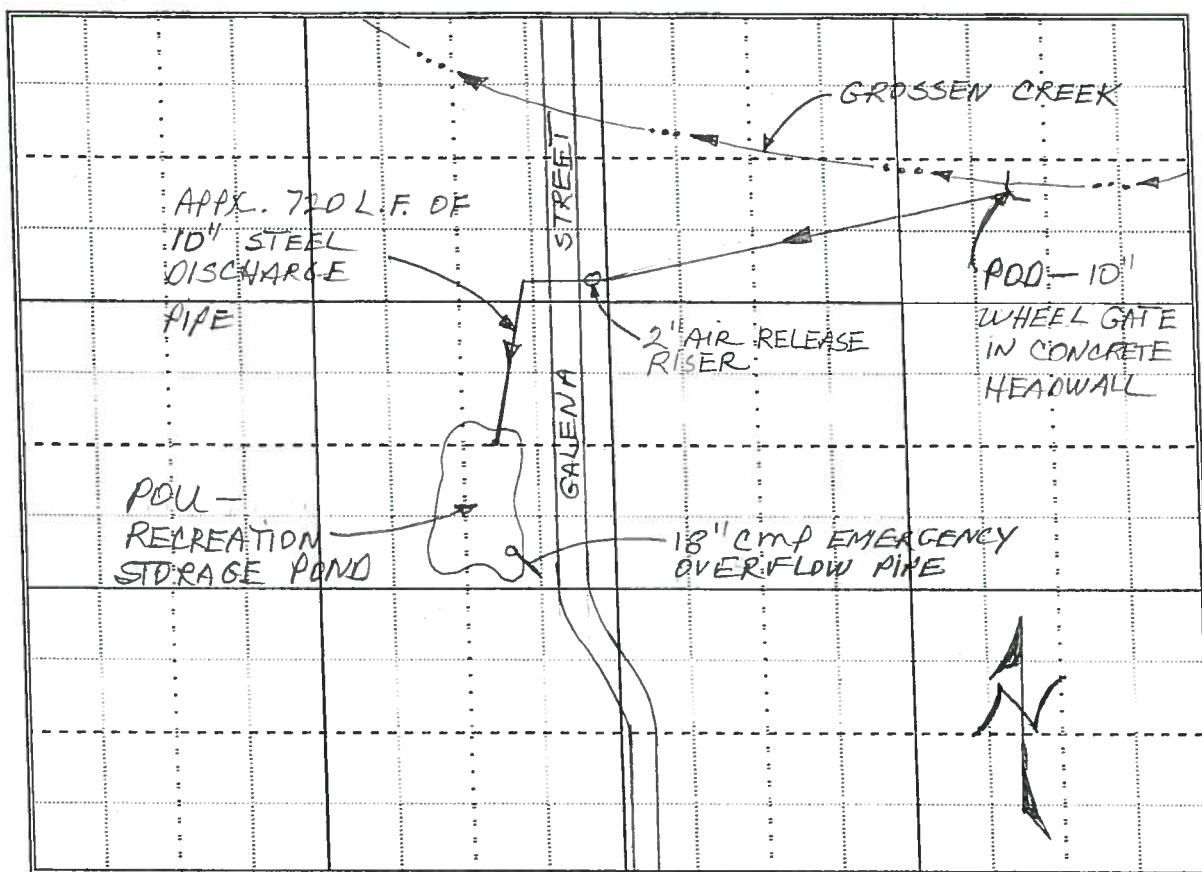
Reviewer _____ Date _____

67-14248

ESRI AERIAL PHOTO - 2012



3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
- ☒ Aerial photo attached (required for irrigation of 10+ acres)
- ☒ Photo of diversion and system attached

Collingwood, Rick

From: Brandi Horton [watermaster67@hotmail.com]
Sent: Monday, July 15, 2013 7:48 PM
To: Collingwood, Rick
Subject: RE: Water Right Permit No. 67-14248 (City of Council) - Grossen Creek Diversion to Recreation Pond

Good Afternoon Rick,

I swung by the City of Council's pond today and looked over things, and I think you're right. Grossen Creek is a small, dry drainage anyway, with few water users on it and no one has made any objection to the city's diversion works or lack of a measuring device, so I see no reason to go stirring up trouble. And as you say, it's possible to measure the flow of the discharge pipe, so shy of a dispute or something like that, I see no reason to require the installation of a measuring device at this time. If you need anything else from me, please let me know...

Have a Great Day!

Brandi Horton
Watermaster-District 67
2297 Snapp Ln.
Midvale, ID 83645
(208) 550-0313

Subject: Water Right Permit No. 67-14248 (City of Council) - Grossen Creek Diversion to Recreation Pond
Date: Fri, 12 Jul 2013 15:47:07 -0600
From: Rick.Collingwood@idwr.idaho.gov
To: watermaster67@hotmail.com

Brandi,

A condition of approval for the diversion at Grossen Creek is for the City of Council to install a measuring device and lockable controlling works. The city has complied with part of the approval condition with the installation of a chain and padlock to lock the 10" wheel gate. However, no measuring device was installed at the diversion or in the 10" buried steel discharge line.

The city official I met with indicated that water is only diverted to maintain the water level in the storage pond. He indicated that water is diverted to the storage pond approximately once a month. Since water is only diverted once a month, and since we have the capability to calculate the partial or full flow of the 10" discharge pipe, it is my opinion that our condition of approval requiring the city to install a measuring device should be waived.

Please let me know if we need to have the city install a measuring device, or we can waive the approval condition requirement. The pond and point of diversion are located near Galena Street north of Highway 95.

Thanks,

Rick Collingwood, P.E.
Water Resource Agent, Sr.
IDWR Western Region
(208) 334-2190

FIELD EXAM PHOTOS

Water Right Permit: 67-14248

Field Exam Date: 4-30-13

PLS: SW1/4, SE1/4 Section 10, T.16N, R.01W.

Field Examiner: RC



Point of Diversion: View northwesterly of the diversion structure and 10" slide gate on Grossen Creek. Since the recreation storage pond was currently full, no water was being diverted at the time of the field exam.



View southwesterly of a 2" air release on the 10" steel conveyance pipe prior to crossing N. Galena Road.



Place of Use: View southwesterly of the 10" steel discharge stand pipe located in the recreation storage pond.



Place of Use: View westerly of the screened 18" CMP overflow stand pipe. The 18" CMP overflow stand pipe is not active during normal filling of the recreation storage pond. It is only used during emergency situations.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

April 16, 2013

City of Council
P.O. Box 606
Council, ID 83612

RE: Scheduling Field Exam for Water Right Permit No. 67-14248

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of April 29, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 2.09 cfs of surface water for irrigation of 51.0 acres and 14.00 AF of irrigation storage.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by April 26, 2013, to conduct the exam during the week of April 29, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.