

Comment Report

74-7002A

1. kwalker 4/22/2005 Irrigation Storage Place of Use

Comment: Found that a small part of this reservoir is located on lands owned by BLM. I removed those parts of the reservoir from the irrigation storage place of use so not to add conflict when claim is filed and reviewed. The location of the reservoir that has been removed is located in SESW and a tiny corner of the SWSE, S18.

2. kwalker 7/8/2005 License Review

Comment: There are no other water rights appurtenant to these lands per search by POU comparison report and by arc view review. Added condition R59 to this right limiting use to 3.5 af per acre even though this right will only supply 0.682 af per acre.

Place of use determined by utilizing Lemhi River Adjudication maps, ortho-photo S80 (1974 vintage), and field examiners recommendations by 40 acre tract descriptions.



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street, P.O. Box 83720, Boise, ID 83720-0098

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DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

March 2, 2005

Shiner Farms
P.O. Box 26
Lemhi, ID 83465

*Copy from dam
safety file -
KW
7/7/05*

RE: Shiner Upper Dam (Storage Authorization)
Shiner Lower Dam

D74-7002A
D74-7002C

Dear Mr. Shiner:

In accordance with Title 42, Chapter 17, Idaho Code, and the Department's Certificate of Approval that was issued in 2005, Shiner Upper Dam has been inspected and determined to be safe to impound water. Storage is hereby authorized at the dam until **November 1, 2006**, in accordance with the water rights for the project and subject to the following conditions that must be adhered to:

- The fuseplug in the spillway channel shall be maintained so that it will easily wash out if overtopped.

The Department's recent inspection indicated the Upper Dam is in satisfactory condition and adequately maintained. The following maintenance should be performed periodically to keep the dam operating safely:

- Continue to spray/cut and remove large growth (willows, brush, etc.) or regrowth from all parts of the embankment and along the downstream toe area. Willows along the toe of the dam need to be removed, particularly around seepage areas so that seepage can be easily monitored.
- Continue to control rodents and burrowing animal activity by eradicating them as necessary and eliminating their cover. All large burrows shall be backfilled with suitable soil material, compacted in place.
- Remove debris and driftwood from the upstream slope of the embankment and from the spillway entrance and channel, and dispose of it away from the dam. Driftwood should be piled and burned annually when weather conditions allow. There is considerable driftwood in the right spillway channel that needs to be removed.

Seepage from the toe drain must be observed periodically, particularly as the reservoir fills or remains full. If there is any significant increase in seepage flow, murky discharge or silt accumulation in the seepage area(s), you must notify the Department immediately.

Storage at Shiner Lower Dam is not authorized at this time. The Department's inspection indicated that the condition of the dam has been improved slightly over the past several years; however, the following maintenance and repairs still need to be completed before storage can be reauthorized at the dam:

- Continue to remove trees and brush from all parts of the embankment and along the downstream toe. Since removal of large mature trees may do more harm than good, trees larger than 6 inches in diameter may remain as long as they are living, since their root systems are nearly fully developed. All other trees and all brush shall be completely removed.
- Willow growth on the upstream slope may remain; however, willow clumps must be thinned occasionally to allow for visual inspection of the dam. Clearing small areas of willows and removing dead trees should be adequate. All debris and dead growth should be burned or removed.
- Either the outlet controls at the dam shall be repaired and made operable, or a siphon pipe (at least 6 inches in diameter) shall be installed over the dam so that storage can be released, if necessary.
- Erosion along the downstream toe of the dam, where the spillway channel has cut into the embankment, needs to be repaired by adding fill material to build the dam back to its original cross section. Either the spillway channel needs to be rerouted away from the toe of the dam, or rock riprap added along the toe of the embankment to prevent further erosion.

During the inspection, the Department re-surveyed the dam crest and spillway at the Lower Dam. The survey, copy enclosed indicated that the spillway provides 3.7 feet of freeboard on the dam embankment. During passage of the inflow design flood (IDF), freeboard is reduced to about 1 foot, which is not adequate; Dam Safety Rules require a minimum of 2.0 feet of freeboard during passage of the IDF. As can be seen from the survey, the crest of the dam is very irregular and there are several low areas that need to be raised. Raising and leveling the crest of the dam to elevation 100.6 ft, as shown on the survey would meet the rule requirement for freeboard and release capacity for the dam.

The Department will continue to examine the facilities approximately every two years to evaluate their condition and the performance of maintenance, and an approval letter will be issued authorizing storage, if they are in satisfactory condition. You will be advised of the time of the inspection prior to re-examination, and are encouraged to attend and participate. As long as progress is made to maintain and improve the condition at the Lower Dam, further action by IDWR will be avoided.

Should you have any questions, please contact Lewis Rounds, phone (208) 525-7161, in our Eastern Regional Office in Idaho Falls, or contact Mike Stubblefield, phone (208) 287-4927, in the State Office in Boise. If you would like assistance with surveying or staking of the dam for enlarging the spillway at the Lower Dam, please contact Mr. Rounds.

Sincerely,



Guy E. Paul, P.E.
Chief, Resource Protection Bureau

cc: IDWR – Eastern Region

DAM SUMMARY INVENTORY SHEET

SHINER LOWER

74 - 7002C

Printed: Mar 08, 2005

Updated: Mar 08, 2005

STATUS _____ A
BASIN _____ 74
DAM_NUMBER _____ 7002C
FEDERAL ID NUMBER _____ ID00335
DAM NAME _____ SHINER LOWER
COUNTY _____ LEMHI
STREAM _____ YEARIAN CREEK
REGION _____ E
PURPOSE _____ I
RISK CATEGORY _____ 3
SIZE CATEGORY _____ 3
Q_Q_SECTION _____ SWSE
SECTION _____ 35
TOWNSHIP _____ 18N
RANGE _____ 24E
LATITUDE DEC _____ 44.8398
LONGITUDE DEC _____ 113.5643
DAM TYPE _____ EARTH
STORAGE CAPACITY _____ 50 *AcFT*
HEIGHT _____ 14 *Ft*
DRAINAGE AREA _____ 20.6 *SqMi*
RESERVOIR AREA _____ 9 *Ac*
YEAR COMPLETED _____ 1973
CREST ELEVATION _____ 5540 *Msl*
CREST LENGTH _____ 1170 *Ft*
SPILLWAY TYPE _____ RPCHAN
SPILLWAY DEPTH _____ 3.7 *Ft*
SPILLWAY CAPACITY _____ 123 *Cfs*
SPILLWAY CONDITION _____ FR
SPILLWAY GATE COND _____ NA
OUTLET TYPE _____ CMP
OUTLET SIZE _____ 15 *In*
OUTLET CAPACITY _____ 13 *Cfs*
OUTLET CONDITION _____ PR

OUTLET GATE CONDITION _____
LAST OUTLET EXAM _____
OUTLET INSP INTERVAL _____
DEFICIENCY:
IDF _____ Q50
IDF MAGNITUDE _____ 310 *Cfs*
RELEASE CAPACITY _____ 136 *Cfs*
OVERALL COND _____ NA
MAINTENANCE _____ REQUIRED
INSPECTION DATE _____ 9/16/2004 *Mo/Yr*
CERT ISSUE DATE _____ *Mo/dd/yr*
STORAGE AUTH DATE _____ *Mo/dd/yr*
STORAGE EXP DATE _____ *Mo/dd/yr*
SURVEY DATE _____ 9/16/2004 *Mo/dd/yr*
CALL UP DATE _____ *Mo/dd/yr*
INSP INTERVAL _____ 2 *Yr*
PHASE 1 INSP DATE _____
OPERATION PLAN _____ N
STATIC STABILITY _____
SEISMIC STABILITY _____ N
RESTRICTED _____
BOND _____ NA
JOINT INSPECTION _____
QUAD NUMBER _____ S80
QUAD NAME _____ LEMHI
DAM OWNER _____ SHINER FARMS
ADDRESS-1 _____
ADDRESS-2 _____ PO BOX 26
CITY _____ LEMHI
STATE _____ ID
ZIP CODE _____ 83465
ZIP SUFFIX _____
PHONE _____ 7682473
AREA COD _____ 208

GEN_REMARK _____ LAST STORAGE CERTIFICATE EXPIRED IN 1974.

TEC_REMARK _____ SPILLWAY & RELEASE CAPACITIES ARE WITH 2.0' FB. SPILLWAY WILL PASS Q50 WITH 1.1 FB.

RESTRICT _____

ALT_CONT _____ CHUCK SHINER IS DECEASED.

BOND_SUM _____

DEFICIENCY ITEM _____