

Hemenway, Sandy

From: Falk, John
Sent: Thursday, March 22, 2012 8:05 AM
To: Hemenway, Sandy
Cc: Peppersack, Jeff; Saxton, Craig
Subject: RE: 79-7254 Allen (current owner), Dam: 12 ft height embankment, 1.68 acre X 8 ft deep, 13.4 af

Thanks, Sandy

Seems to happen more often than not that an owner submits a design "just under" the statutory size, but ends up with a dam just over. Hmmm.

If in fact the dam is 12' high and impounds 13.4 acre-feet of water, then the enlarged structure superimposed on original design (attached) doesn't meet IDWR dam standards listed in the Rules (36.03.06). Because it is already constructed our options are limited to: a) remove, b) reduce height to match original design, c) require the owner to submit additional information and thus bring the structure into compliance.

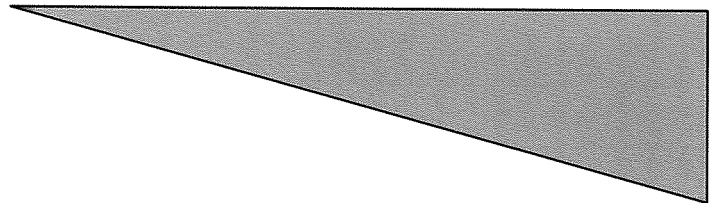
With regard to option (C):

1. Apparently IDWR did not receive an *Application for Construction of a Dam* and the requisite fee; this can be required of the owner, together with a set of asbuilt drawings addressing minimum standards detailed in the Rules.
2. The downstream hazard potential has not been assessed. Because it's a small dam, it probably is a Low hazard structure but IDWR should verify before signing off on this one.

A final option for the owner would be to hire a licensed engineer/surveyor/CWRE to contest the amount of storage impounded by the dam. For example, the actual volume is probably some fraction (50-60%) of SA (1.68 acres) x Depth (8'). Instead of 13.4 ac-ft, it may only be 7-to-8 ac-ft. And, if storage is less than 10, then structure is exempt from IDWR dam safety regulation, assuming of course that the Low hazard classification is valid.



DOC000.pdf



John Falk, PE
IDWR Dam Safety
322 E. Front Street
Boise, ID 83720
(208) 287-4927

From: Hemenway, Sandy
Sent: Wednesday, March 21, 2012 3:11 PM
To: Falk, John
Cc: Hemenway, Sandy
Subject: 79-7254 Allen (current owner), Dam: 12 ft height embankment, 1.68 acre X 8 ft deep, 13.4 af

John,

Craig suggested that I should send you an email to give you a heads up of an exam we are licensing for 8.0 af for wildlife storage. It was originally proposed as a 7 ft height embankment, but during the field examination was found to be a 12 ft height embankment; 1.68 acres X 8 ft deep (13.4 af). The only plans found on the dam are attached.

Thanks,

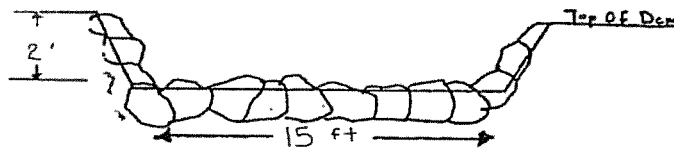
Sandy << File: DOC000.pdf >>

Sandy Hemenway
Sr. Water Resource Agent
IDWR/State Office
PO Box 83720 or 322 E. Front St.
Boise, ID 83720-0098
OFFICE: (208) 287-4920
CELL: (208) 761-0280
FAX: (208) 287-6700
Email: sandy.hemenway@idwr.idaho.gov

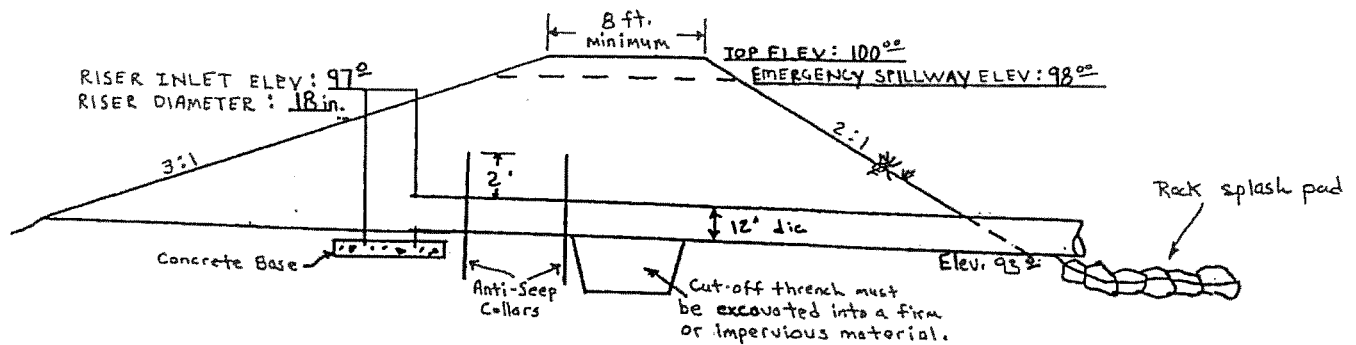
DEC 11 1997

RECEIVED

Emergency Spillway Cross Section



The emergency spillway crest and exit slope should be lined 1 foot thick with a well graded angular rock with a maximum rock diameter of 12 inches. The spillway should be lined to a stable outlet.



- 1) The pipe should be laid on natural ground to prevent settlement.
- 2) The portion of the anti-seep collars that are below the outlet pipe should be formed or placed into natural ground.
- 3) The area around the outlet pipe and riser must be hand tamped; a mechanical whacker is recommended.
- 4) If there is not adequate soil moisture, water will have to be applied.

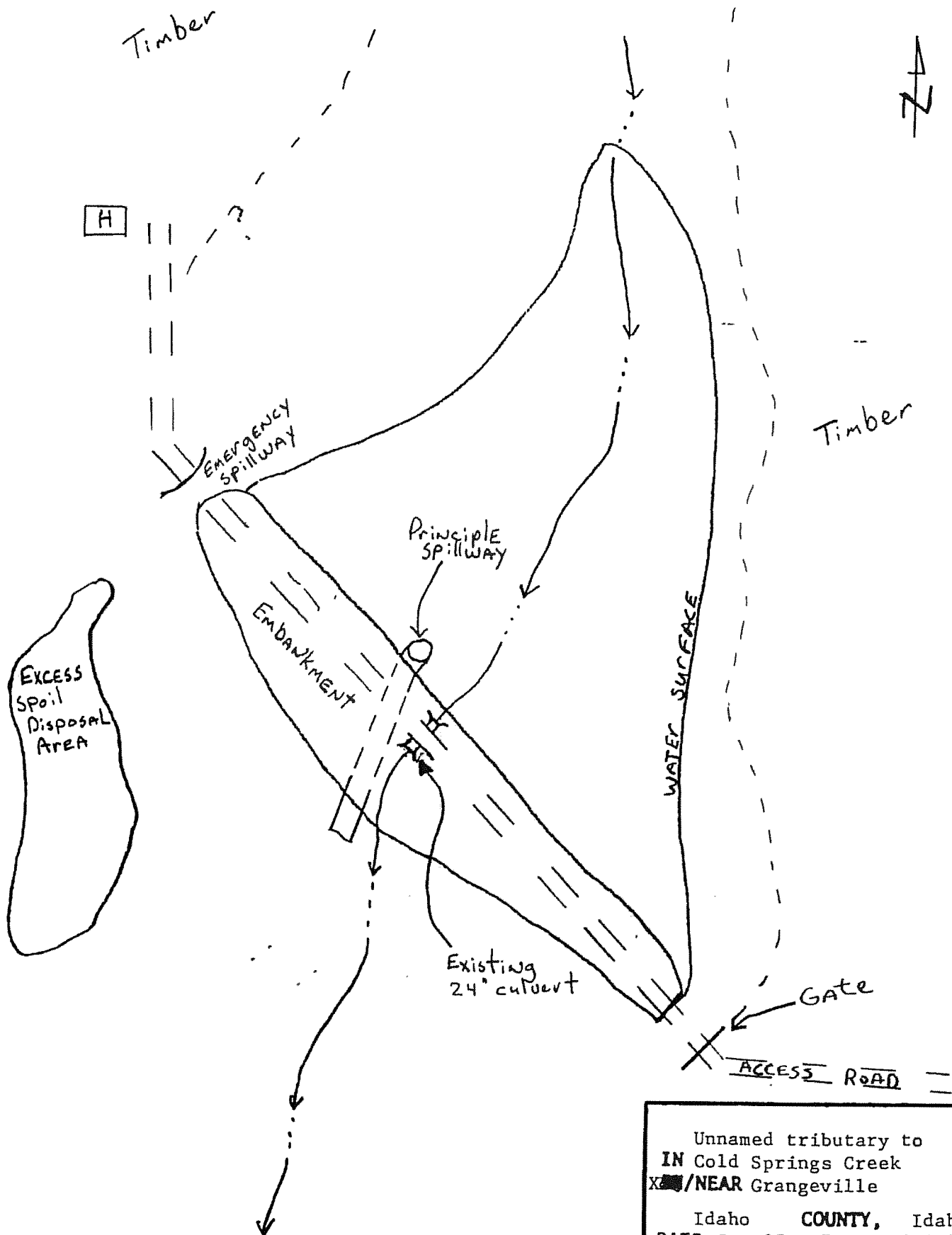
Anti-Seep Collars

- 1) A minimum of 2 anti-seep collars must be installed in the upstream half of the dam.
- 2) Collars may be made of concrete, metal, plastic or equivalent material and extend out from the pipe a minimum of 2 feet in all directions.

Effective Height	5 ft
Maximum Fill Height	7 ft.
Length	460 ft.
Estimated Water Storage	8 acre feet
Estimated Fill	1040 cubic yards
NRCS Engineering Job Class II	

Unnamed tributary to
IN Cold Springs Creek
NEAR Grangeville

Idaho COUNTY, Idaho
DATE: Jan 05, 97 SHEET 2 OF 3
APPLICATION BY: Orie Kaltenbaugh



Unnamed tributary to
 IN Cold Springs Creek
 X / NEAR Grangeville
 Idaho COUNTY, Idaho
 DATE: Jan 05, 97 SHEET 3 OF 3
 APPLICATION BY: Orrie Kaltenbaugh

DEC 11 1997
 RECEIVED

