



August 25, 2015

Skip Canfield, Clearinghouse Coordinator
Nevada Division of State Lands
901 S. Stewart St., Ste. 5003
Carson City, NV 89701-5246

via email only

Subject: Pershing County Water Conservation District – Rye Patch Penstock Replacement Project

Dear Coordinator:

Pursuant to the Memorandum of Understanding (MOU) between our agencies, this is to notify you that the USDA - Rural Development anticipates a request for financial assistance from Pershing County Water Conservation District, Pershing County, Nevada. The Rye Patch Penstock Replacement Project is to replace the two existing 48 inch steel penstock pipes with new steel pipe. The right penstock recently failed after pressurizing the pipe for testing on the newly constructed hydroelectric generator. The pipe burst on the lower half of the right conduit (7 o'clock position) approximately 129 feet from the outlet. The dam was built from 1933 to 1934. The 2 x 48" pipes are approximately 82 years old and have exceeded their design life.

After the pipe failed the PCWCD called in a contractor to perform Ultrasonic Testing on the pipe to fully assess the condition of the aged steel. The contractor found that the pipe had rusted and thin spots throughout the length of the pipe.

After the necessary approvals have been obtained from Nevada Safety of Dams the process of replacing the pipes is anticipated as follows:

1. Remove miscellaneous existing equipment from control house, (stairs, pipe works and plumbing, and new penstock hydroelectric extension).
2. Cut access hole into the south wall of the control house.
3. Demolish interior concrete and pipe encasement as needed for pipe removal.
4. Install conveyance system that will transport the steel pipes in and out of the conduit.
5. Remove and replace existing steel pipe.
6. Replace concrete to original specifications.
7. Replace or reinstall miscellaneous equipment in control house.

All construction will take place in the interior of the dam. Attached are maps and photos showing the location of the proposed project.

Rural Development • Nevada State Office
1390 S. Curry St. • Carson City, NV 89706
Voice (775) 887-1222 • Toll Free Fax (855) 816-1209

USDA is an equal opportunity provider and employer.

Unless the Clearinghouse Coordinator advises us otherwise, within 30 days of this notice, we will assume that the final Clearinghouse comments will not be forthcoming and, therefore, the State Clearinghouse responsibilities of USDA - Rural Development will have been satisfied.

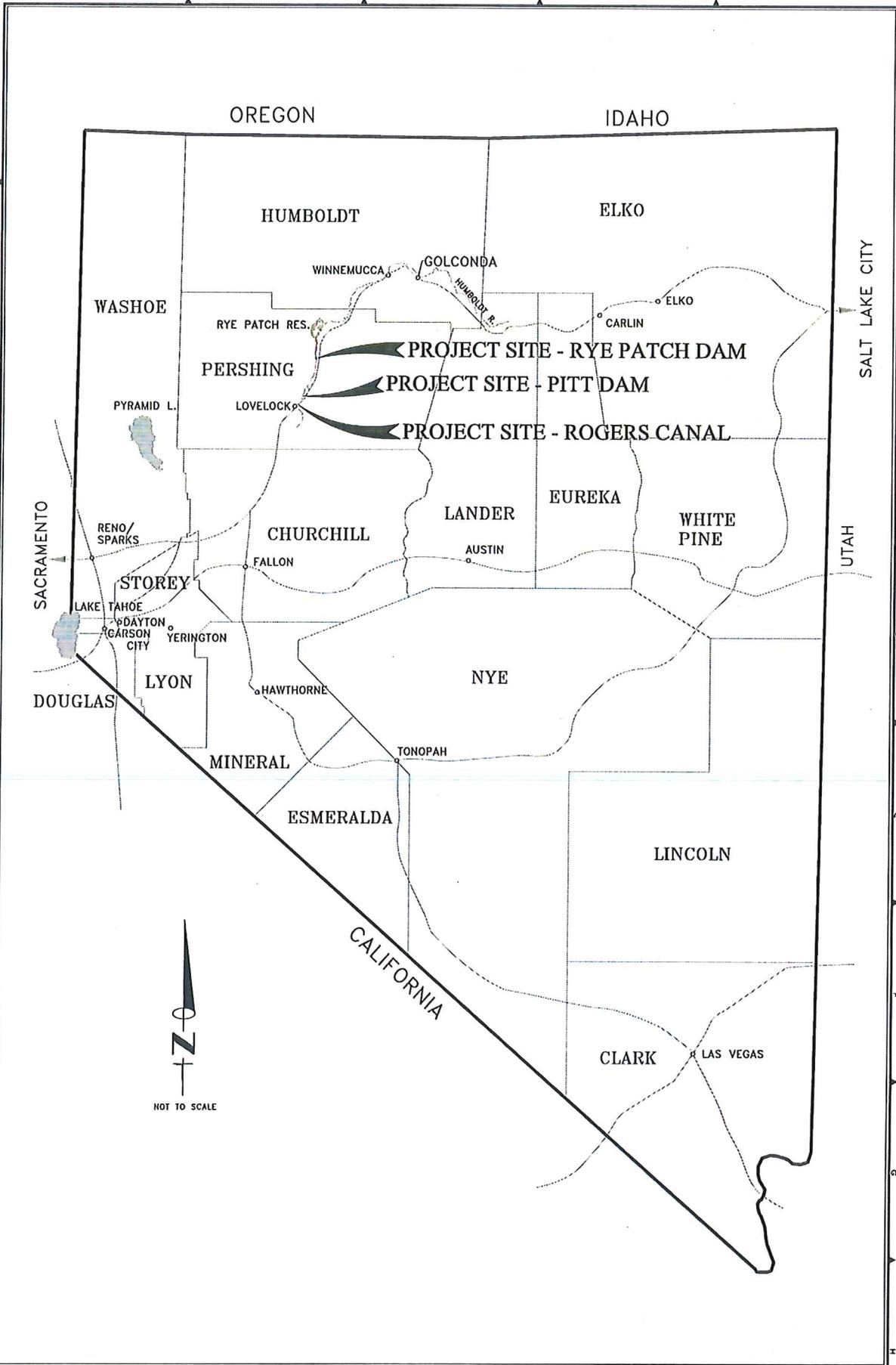
If you have questions or need additional information, please contact me at 775-887-1222, ext. 114 or by email at Lisa.Goodfellow@nv.usda.gov.

Sincerely,



Lisa Goodfellow
Community Programs Specialist

Enclosures

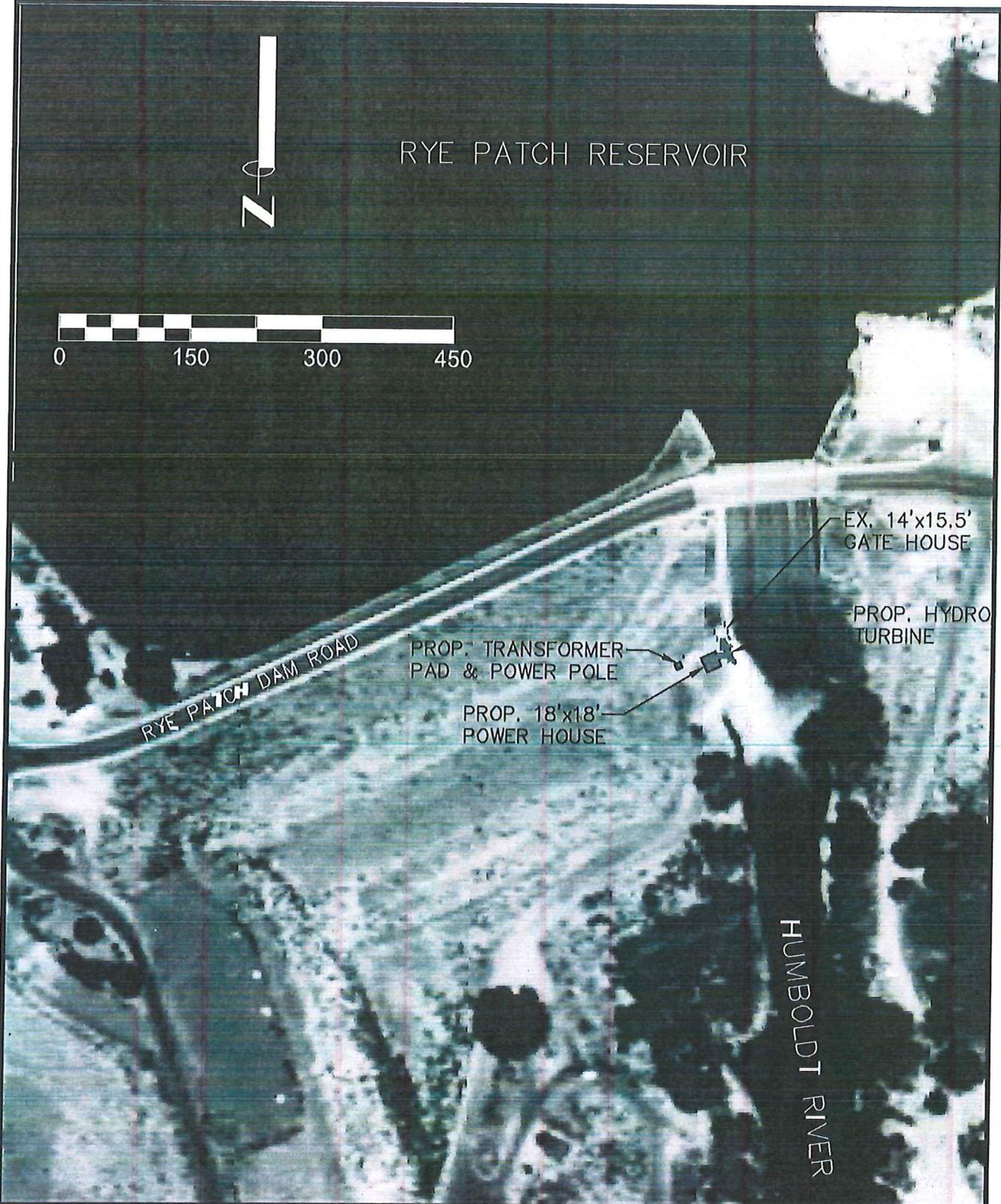
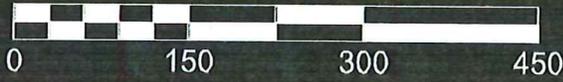


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SHEET NUMBER E1	HUMBOLDT RIVER WATER CONSERVATION PROJECT PROJECT VICINITY	FARR WEST ENGINEERING 3143 LOVELLY LANE, SUITE # 1000, NEVADA 89111 PHONE: (775) 891-4748 FAX: (775) 891-0748	JOB NO.: 2411 PERC 24000	REVISION	DESCRIPTION	BY	APP	DATE
			DATE: APR. 2011					
1 OF 1	PERSHING COUNTY	NEVADA	SCALE: AS SHOWN					
			DESIGNED:					
			DRAWN:					
			CHECKED:					



RYE PATCH RESERVOIR



FARR WEST

ENGINEERING

5442 LONGLEY LANE, SUITE B
RENO, NEVADA 89511
PHONE: (775) 851-4788
FAX: (775) 851-0766

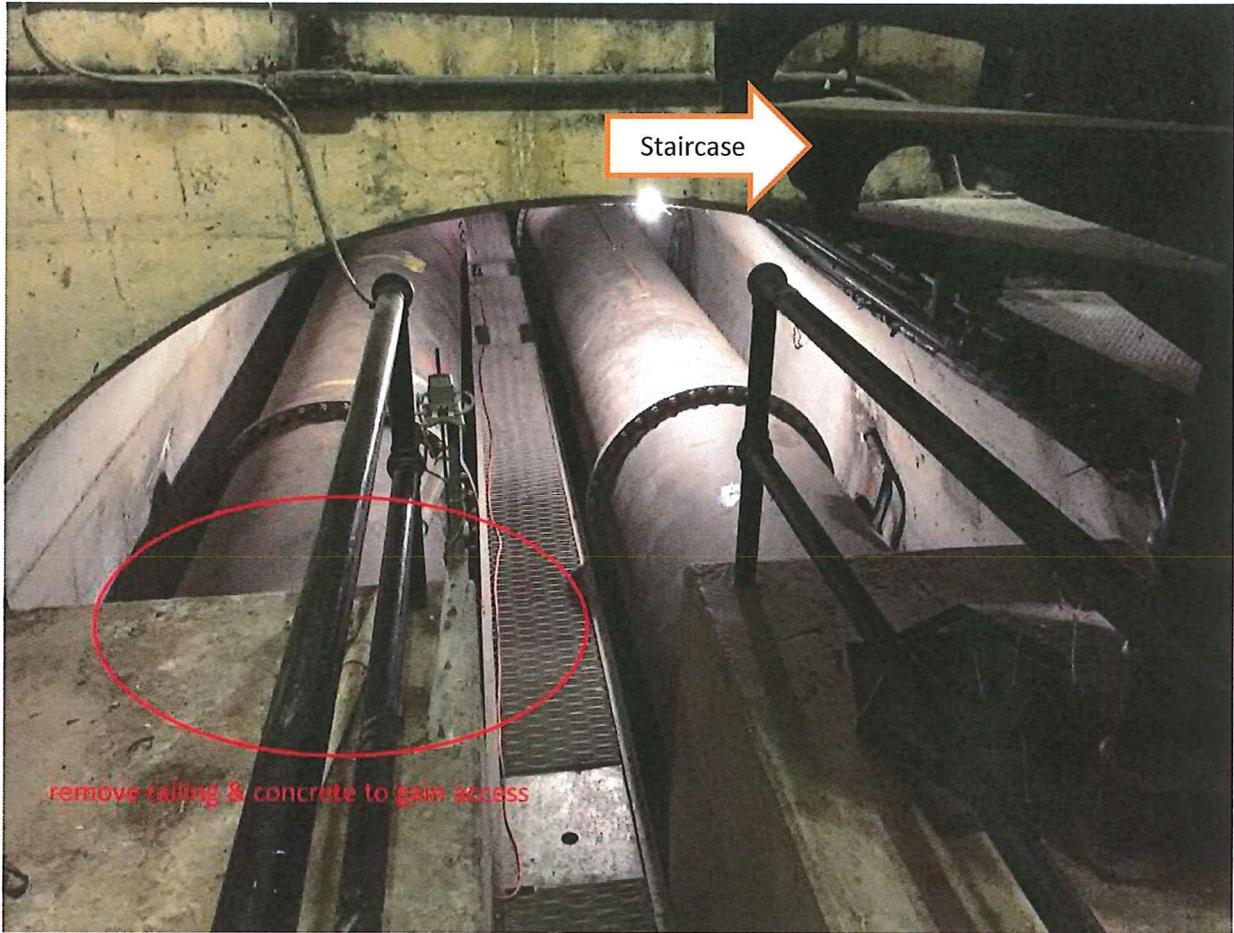
HUMBOLDT RIVER WATER CONSERVATION PROJECT

RYE PATCH DAM SITE

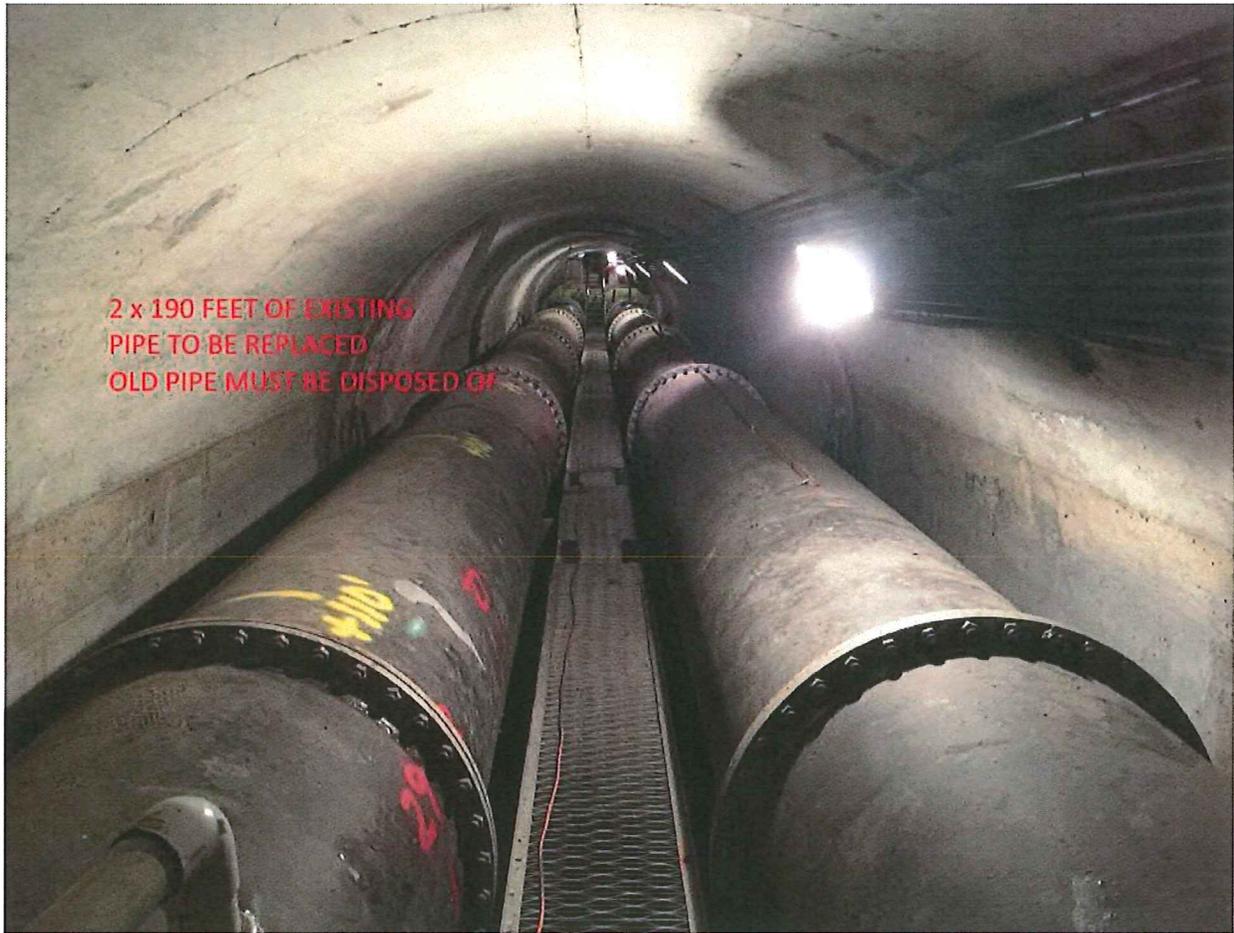
PERSHING COUNTY

NEVADA

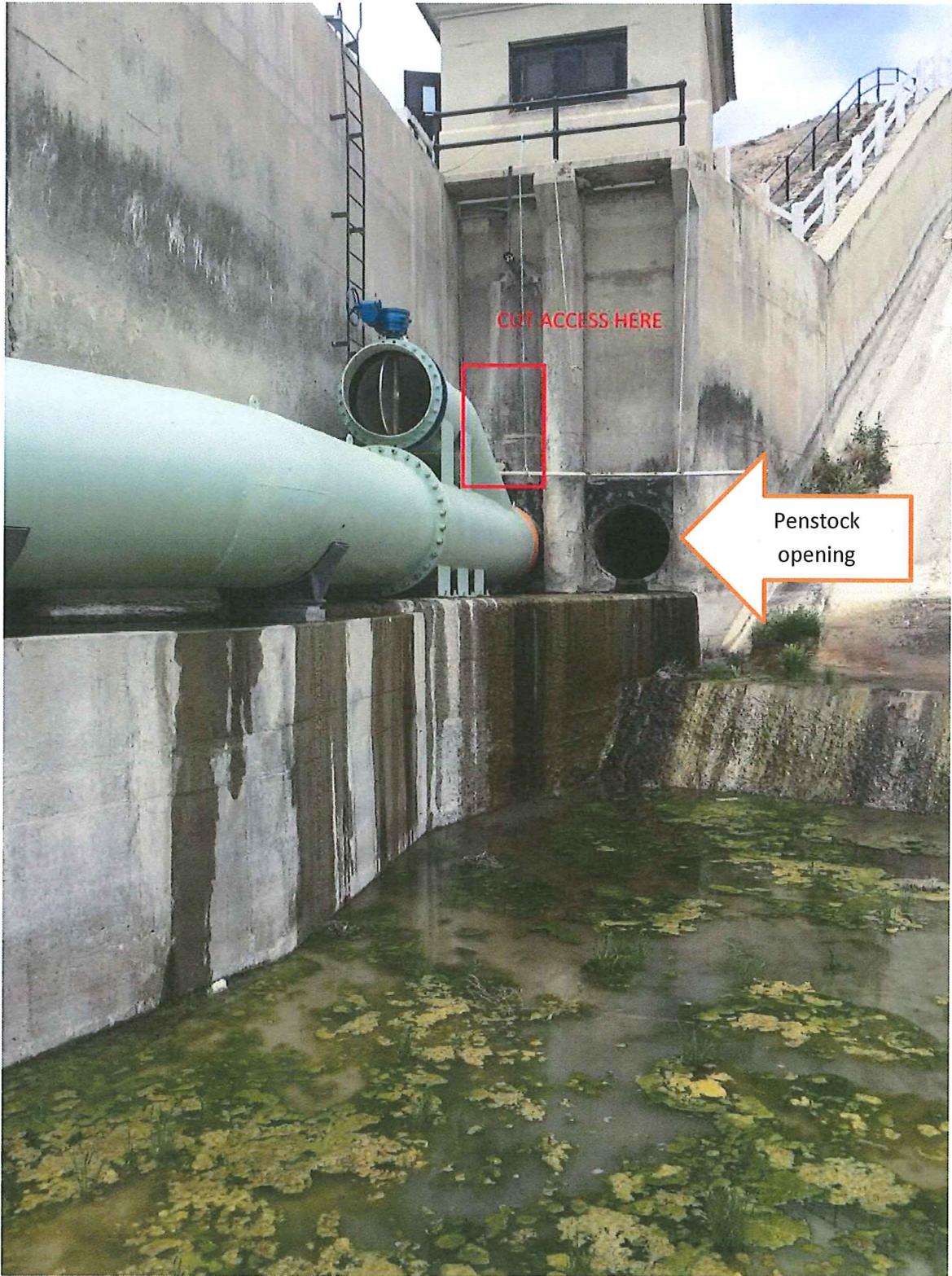
PLATE 1



Spiral staircase on the right side of the photo will be taken out during construction, then re-installed. Railing and concrete will be removed to gain access to the penstocks. Railing will not likely be used again.



View of the penstocks looking toward the staircase and railing in the previous photo



Exterior of the dam looking at the spillway on the right and the penstocks. The penstock on the left had been fitted with an exterior pipe that flows to the hydroturbine. The green pipe will be removed during construction, then re-installed.



View of the spillway and the exterior view of the penstocks. Engineer has indicated the proposed cuts in the concrete to gain access to the penstocks. Concrete will be replaced to original specifications.