

Application for a Permit to Construct a Reservoir and to Store for Beneficial Use the Unappropriated Waters of the State of Oregon

I, City of Dallas (Name of Applicant)

of City Hall, Dallas, Oregon (Mailing Address)

State of Oregon, do hereby make application for a permit to construct the following described reservoir and to store the unappropriated waters of the State of Oregon, subject to existing rights.

If the applicant is a corporation, give date and place of incorporation 4 February 1901
Dallas, Oregon

1. The name of the ~~proposed~~ reservoir is Mercer Reservoir

2. The name of the stream from which the reservoir is to be filled and the appropriation made is Rickreall Creek

tributary of Willamette River

3. The amount of water to be stored is to be increased from 760 to ¹⁵⁵⁰~~1350~~ acre feet.

4. The use to be made of the impounded water is Municipal, ^{Supply} Domestic and Industrial
(Irrigation, power, domestic supply, etc.) ~~Supply~~

5. The location of the ~~proposed~~ reservoir ^{is} ~~will be~~ in Sec. 6, T8S, R6W & Sec. 1
(Give sections or townships to be submerged)
Tp. 8S, R. 7W, W.M., in the county of Polk

(a) State whether situated in channel of running stream and give character of material at outlet
The dam is situated in the channel of Rickreall Creek. Material at outlet consists of volcanic breccia rock.

(b) If not in channel of running stream, state how it is to be filled. If through a feed canal, give name and dimensions

6. The dam ~~will be~~ ^{is} located in NE1/4, SW1/4 & NW1/4, SE1/4, Sec. 6,
(Smallest legal subdivision)

Tp. 8S, R. 6W, W.M. The maximum height will be 83 feet above stream bed or ground surface on center line of dam. The length on top will be 480 feet; length on bottom 100 feet; width on top 20 feet; slope on front or water side 3:1; slope on back 2:1; height of dam above water line when full ~~is~~ 8 feet.
(Feet horizontal to 1 vertical) (Feet horizontal to 1 vertical)

* A different form of application should be used for the appropriation of stored water to beneficial use. Such forms can be secured without charge, together with instructions, by addressing the State Engineer, Salem, Oregon 97310.

11 Dec 14 1971

7. The construction of dam, the material of which it is to be built, and method of protection from waves are as follows: The height of the existing earth fill dam is to be increased 13 feet by placement of clayey, sandy gravel on the downstream face. Large gravels and cobbles from the lower material will be placed in the upstream face of the dam for wave protection.

8. The location of wasteway with dimensions are as follows: The existing open cut spillway will be raised ¹⁶ feet with a ^{240'} long concrete ~~open~~ labyrinth weir crest to impound the additional ⁷⁹⁰ ~~500~~ Acre-feet. (State whether over or around the dam)

9. The location of outlet from the proposed reservoir, with character of construction and dimensions, are as follows: ~~The existing 30-inch diameter reinforced concrete outlet pipe~~ will be extended to the toe of the new ^{RWL 12/27/71} embankment. ~~27" φ CMP inserted and grouted in existing 30" φ concrete pipe.~~ ^{27" φ CMP inserted}

10. The area submerged by the proposed reservoir, when full, will be ~~54~~ ⁵⁸ acres, with a maximum depth of water of ~~55~~ ⁷¹ feet; and approximate mean depth of water ~~25~~ ²⁷ feet.

11. The estimated cost of the proposed work is \$180,000

12. Construction work will begin on or before December 1971

13. Construction work will be completed on or before December 1972

Neward J. B. ...
(Signature of applicant)
City Manager

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before _____, 19.....

WITNESS my hand this _____ day of _____, 19.....

STATE ENGINEER

By _____ ASSISTANT

Remarks: This application is for the construction of additions to the existing Mercer Dam (Application No. R-32085).

Eleven feet of freeboard will be maintained in the new dam, however, the spillway capacity has been increased from approximately 5,000 cfs (with a head of 11 feet) to 8,000 cfs to accomodate flows computed according to the U.S. Weather Bureau's publication "Hydro-meteorological Report No. 43" for the Probable Maximum Precipitation.

Sudden failure of the dam would cause flooding adjacent to Rickreall Creek in the vicinity of Dallas with heavy property damage and possible loss of life occurring.

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application and do hereby grant the same, subject to the following limitations and conditions: The right herein granted is limited to the construction of Mercer Reservoir enlargement and storage of water from Rickreall Creek to be appropriated under application No. 48695, permit No. 35718, for municipal use.

The right hereunder shall be limited to the storage of 790.0 acre feet.
September 16, 1971 for 600.0 af, and
The priority date of this permit is December 14, 1971 for 190.0 af

Actual construction work shall begin on or before March 16, 1973 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1973.

WITNESS my hand this 16th day of March, 1972.

Charles L. Schulz
STATE ENGINEER

Application No. **R-48694**
Reservoir Permit No. **R 5755**

PERMIT

To construct a reservoir and store for beneficial use the unappropriated waters of the State of Oregon.

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the **16th** day of **September**, 19**71**, at **1:42** o'clock **P.**M.

Returned to applicant:

Approved:

March 16, 1972

Recorded in Book No. _____ of _____ Reservoirs, on Page **R-5755**.

CHRIS L. WHEELER
State Engineer

Drainage Basin No. **2** page **16B14**

Fees **26.00**