

1.0 GENERAL

1.1 NOTES

- .1 This specification should be read in conjunction with Section 02242 – Instream Activity
- .2 At the time of Tender, permits pertaining to instream work have not been obtained and are outstanding. Instream work is not permitted to take place until permits have been obtained by the Owner.

1.2 REGULATORY REQUIREMENTS

- .1 Comply with the conditions of the permits for the Project obtained by the Owner under the Fisheries Act, Water Act, and Navigable Waters Act as specified in Section 01410 – Regulatory Requirements.
- .2 Make arrangements with the Owner, private landowners, or other agencies that may be affected by disposal of water, snow, or ice. Obtain any permits required in addition to those obtained by the Owner.

1.3 SITE CONDITIONS

- .1 The Site is located in an area where chinook winds, accompanied by sudden temperature changes, are prevalent. The resulting temperature fluctuations often result in significant snowmelt runoff during relatively short periods of time.
- .2 Red Deer River conditions that may influence care of water provisions are specified in Section 01110 – Summary of Work.
- .3 The Site is located where groundwater may be present. Refer to *DRFM Dike D Geotechnical Investigation Report* as prepared by SweetTech Engineering Consultants dated (September 17, 2021).

1.4 DESIGN OF CARE OF WATER PROVISIONS

- .1 Design temporary care of water measures including cofferdams, sumps, pumping systems, pipelines, channels, flumes, drains, and other protective and dewatering works to permit construction of the Work in a manner that allows for constructability and maintains environmental compliance.
- .2 Include provisions for handling groundwater, rainstorm runoff, snow, snowmelt, ice, and high stream flows that may enter the Work areas in the design of the care of water measures.
- .3 Design care of water provisions so that they do not interfere with dike function.

1.5 SUBMITTALS

Provide the following submittals:

- .1 A care of water plan, including Site specific drawings, outlining the care of water provisions designed as specified in clause 1.4 at least 7 days prior to commencing Work at the Site.
- .2 A copy of each permit obtained (in addition to those obtained by the Owner) upon the Owner's request.
- .3 Water quality tests upon the Owner's request.

1.6 QUALITY CONTROL

- .1 See Section 02242 – Instream Activity

1.7 QUALITY ASSURANCE

- .1 See Section 02242 – Instream Activity

2.0 EXECUTION

2.1 GENERAL

- .1 Provide, operate, and maintain all necessary cofferdams, channels, flumes, drains, well points, wells, sumps, pumps, pipelines, and other temporary diversion and protection works.
- .2 Provide, operate, and maintain all cold weather protective works including enclosures, insulation, and heating systems.
- .3 Have at the Site at all times, at least one standby pump for each category of pump being used for care of water.
- .4 Provide standby power sufficient for operation of all required care of water equipment.
- .5 Inspect care of water pump and pipeline systems at regular intervals not exceeding 12 hours and verify that the pumps are operating, there is sufficient fuel, and cold weather protection is adequate. If required, decrease the time interval between inspection check to correspond with the type and nature of weather and the work in progress, to the satisfaction of the Owner.
- .6 Repair damage to any part of the Work caused by water, snow, or ice due to failure of the care of water measures. Perform additional excavations and fill placement made necessary by water, snow, or ice.
- .7 When no longer required, remove cofferdams, sumps, channels, drains, and other protective, dewatering, and temporary diversion works and finish to a leveled and neat condition.

2.2 ENVIRONMENTAL PROTECTION

- .1 Do not use care of water measures that cause pollution.
- .2 Do not cause damage to property or nuisance on roads, or injury to the public or to wildlife due to discharge of water from the care of water measures.
- .3 Provide and maintain sediment ponds or other means to remove sediment from the water prior to allowing it to enter or return into the watercourse. Dispose of sediments in waste disposal areas.

END OF SECTION