



2/7/2024

North Fork Special Service District
8838 Alpine Loop Scenic Byway,
Sundance, UT 84604

Subject: North Fork Special Service District
Infiltration Gallery Design Services

Dear Mr. Wright:

Ardurra is pleased to provide this proposal relating to design services for the proposed infiltration gallery project near the Sundance Ski Resort in the North Fork Special Service District (NFSSD or District).

The District has been searching for alternate water sources for their culinary water system. Several projects in recent years have been geared towards increasing culinary water available in the District. After two deep wells were drilled and did not produce reliable water results, the construction of an infiltration gallery for surface water collection is proposed as an alternative solution. Because the water collection system will be for surface water, this will require water treatment. This scope of work does not include the treatment system and is solely for the water collection system. Treatment design can be included under a separate future scope of work.

Scope of Work

The scope of work for this project is as follows:

Task 1: Site Selection

Ardurra will review and select three sites for possible infiltration gallery placement and design. Based upon the site selection, Ardurra will solicit bids from three geotechnical firms for drilling and testing wells at the five identified sites. The bids will include monthly water testing with the results provided to NFSSD and Ardurra for review.

Task 2: Site Topo Survey

Ardurra will obtain topographical information of the sites identified in task one. The topographical work will be completed in Utah State plain coordinates and an electronic AutoCAD drawing will be prepared to include surface and contour data.



Task 3: Water Quality Testing Review

Ardurra will review and monitor the water quality testing results provided by the geotechnical engineer. Based upon the test results and the site survey, Ardurra will evaluate the identified sites and rank them accordingly.

Task 4: Infiltration Gallery Design

Based upon the information obtained in tasks one through three, Ardurra will move forward with a conceptual gallery design to best fit the selected site. During this task Ardurra will also do on-site pump testing to obtain a better understanding of the volume of water that can be provided. With all the information obtained during tasks one through four, Ardurra will make a recommendation to move forward with future development of an infiltration gallery at a proposed site.

Ardurra will produce construction drawings, bid documents, and specifications for the infiltration gallery. Ardurra will also produce additional sheets for the design of an additional infiltration gallery at the Aspen Grove to be included in this project.

Task 5: Bidding Services

Ardurra will provide the District with the bid documents for the District to post for bidding. Ardurra will help the district to identify contractors capable of performing the construction and will perform bid opening services for the district. This task will include answering questions and providing clarification as needed.

Task 6: Permitting Services

Ardurra will assist the district in obtaining the proper permits for construction of the project. Ardurra anticipates that a permit from the Division of Drinking Water, a stream alteration permit from the Division of Water Rights, and an excavation permit from the County will all be necessary. Other permits are not expected to be required.

Excluded Services

This scope of work does not include the following services:

1. Construction management services
2. Legal documents, title reports, and filing fees
3. Survey services not specifically included with this proposal
4. Construction staking services
5. Preparation of record drawings
6. Wetland or flood zone delineation or mitigation



7. Water rights research and/or coordination w/ water rights Attorneys without further scop definition
8. Water quality testing services
9. Revisions to Scope after commencement of work
10. Additional permits not specified herein
11. Anything not explicitly included in this proposal

Anticipated Fees

Fees for the scope of work included herein will be on a not-to-exceed basis with the services anticipated to be \$36,000. If additional services are requested, Ardurra will perform those on a time and expense basis.

Sincerely,

Blake Sonderegger
E.I.T.