

**Wildlife Restoration MULTI-YEAR GRANT
INTERIM PERFORMANCE REPORT**

ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF WILDLIFE CONSERVATION
PO Box 115526
Juneau, AK 99811-5526

**Alaska Department of Fish and Game
Wildlife Restoration Grant**

GRANT NUMBER: AKW-D-1-2019

PROJECT NUMBER: Project 1.0 (MSB Project No. 19-056)

PROJECT TITLE: Lake Louise MSB Recreation Site Upgrades

PERIOD OF PERFORMANCE: July 1, 2018 through July 31, 2020 (Amendment #1)

PERFORMANCE YEAR: September 1, 2018 – September 1, 2019

REPORT DUE DATE: September 28, 2019

PRINCIPAL INVESTIGATOR: Robert L Walden, PE, Matanuska Susitna Borough Capital Projects

COOPERATORS: Katie Sechrist, ADF&G Division of Wildlife Conservation

Authorities: 2 CFR 200.328
2 CFR 200.301
50 CFR 80.

I. PROGRESS ON PROJECT OBJECTIVES DURING PERFORMANCE YEAR

OBJECTIVE 1: Improve MSB Lake Louise boat launch by expanding the concrete boat launch into deeper water.

The Matanuska Susitna Borough, Capital Projects, will construct a deeper boat launch that can accommodate lower lake water levels as have been experienced in recent years. Due to these lower lake water levels, the underwater portion of the ramp is not long enough to reach water deep enough to launch boats safely and effectively. Users of the lake are required to off-load their boats further down the ramp causing trailer wheels to drop off the end of the ramp. Often times when this happens the only way to pull the trailer back onto the ramp is by carefully winching the wheels up over the edge of ramp creating a potential hazard to hunters because the trailer could get stuck or roll off the end of the ramp and tip over with the boat on it. Extending the end of the boat ramp and installing the ramp at the optimal grade will help alleviate this hazard.

ACCOMPLISHMENTS: The work to extend the boat ramp was completed on August 8, 2019 at which time the ramp was reopened to public use.

OBJECTIVE 2: Level the surface of the existing parking area and expand to accommodate additional vehicle spaces so that safety hazards are minimized.

The existing MSB Lake Louise parking area is inadequate for the volume of use received throughout the year. As referenced in the Louise Susitna Tyone Lakes Comprehensive Plan (LSTLCP), “parking throughout the area is limited. Each of the lodges offers storage and parking, but not enough to accommodate all the property owners, day visitors, or casual users. Consequently, large vehicles with boat trailers and/or campers require additional parking. There is a limited parking near the Dinty Lake causeway, often creating parking overflow where the only option for people is to park on the road, making it difficult to maneuver and launch boats.” Since the road is not designed for on-street parking, additional parking spaces are needed at the recreation site. Hunters offloading snow machines or launching boats compete for limited space in a small parking area. Congestion in the parking area is a safety concern because the limited space and visibility in conjunction with dispersed pedestrian traffic increases the likelihood of accidents involving vehicles and pedestrians. This project will level the parking area for more hunters to enjoy and upgrading and expanding the parking area is necessary to alleviate congestion and safety concerns.

ACCOMPLISHMENTS: Construction of the parking area expansion including leveling and surfacing was delayed due to the discovery of permafrost in the expansion area. The grant was extended until July 31, 2020 (Amendment #1). Next spring construction for this portion will be completed, the estimated construction timeline is July 7, 2020 until July 31, 2020.

OBJECTIVE 3: Complete the engineering design for development and expansion of the parking area.

ACCOMPLISHMENTS: The engineering design for the parking area expansion was completed last spring.

OBJECTIVE 4: Complete expansion and development of the parking area including added capacity, traffic flow, vaulted toilet, embankment near Dinty Lake, signage, and kiosk.

ACCOMPLISHMENTS: Construction of the parking area expansion and amenities (paving, vaulted toilet, embankment, signage, and kiosk) was delayed due to the discovery of permafrost in the expansion area. The grant was extended until July 31, 2020 (Amendment #1). Next spring construction for this portion will be completed, the estimated construction timeline is July 7, 2020 until July 31, 2020.

II. SUMMARY OF WORK COMPLETED ON PROJECT TO DATE.

The original construction start was planned to be on June 15, 2019 and due federal and state aviation permitting issues regarding the parking lot expansion area the actual project start date was July 9, 2019. Upon beginning excavation of the parking lot expansion area, the contractor found permafrost that stopped this portion of the project as geo tech work was initiated to find an alternative plan and design. At this point the contractor switched to the boat launch portion of the project and began working on the new double wide boat launch which replaces the old launch. The new wide and deeper boat launch was completed and reopened to the public on August 8, 2019.

The completed boat launch upgrades conclude all in water work and the result is a new 32-foot-wide concrete precast ramp which doubles the boat launch area. The new boat launch

is armored with riprap on the ends and both sides. The ramp also extends a little deeper and longer than the old launch due to seasonal water fluctuations.

The MSB project engineer will be monitoring the permafrost temperatures through a 25 foot bore hole for melting layers. The MSB project engineer will also be collecting surface settling survey data over the winter to compare freeze up season data with spring season data for settling and to confirm the permafrost design changes.

III. SIGNIFICANT DEVELOPMENT REPORTS AND/OR AMENDMENTS.

A grant amendment (Amendment #1) was requested and approved on July 15, 2019 extending the performance period of the grant to July 31, 2020.

1. As a result, the parking lot expansion portion of the project has been extended to next July 2020 for completion of July 31, 2020 allowing the permafrost to melt and settle before construction of the new parking lot expansion area.

2. The anticipated over run cost associated with the permafrost is \$88,000. Additional work was needed to excavate and strip organic material into stockpiles which are to be reused as insulation in October 2019, this work was completed on August 7–9, 2019. The additional cost of this work totaled \$12,684.85.

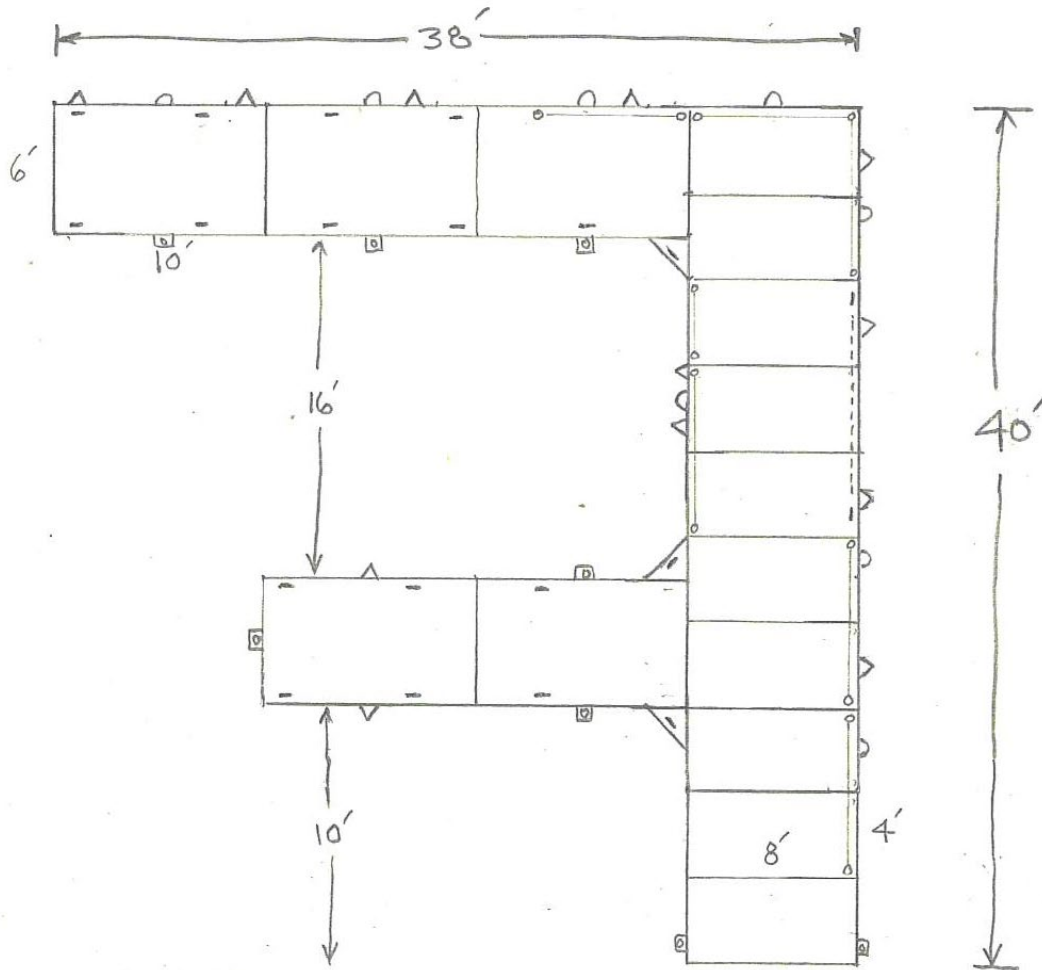
Additional design work was required and completed by HDL. This work was needed to give the MSB engineer recommendations as how to deal with the permafrost construction. The estimated cost of this work is \$20,000. Because of this, additional construction monies will be needed to implement the design changes. Estimated total is \$68,000.

3. The current project budget is \$862,000;

Low bid contractor for improvements \$595,595.95	Cost to date= \$184,457.25
Anticipating extra cost of \$68,000	Total = \$663,595.95
Construction management (TBC) estimate \$89,562	Cost to date= \$27,208.50
Under budget currently estimated final cost \$70,000	Total = \$ 70,000
Design (HDL) permafrost estimate \$20,000	Cost to date=\$13,183.75
	Total = \$20,000

4. In reviewing the boat launch congestion, the MSB engineer has discussed the possible addition of a floating dock with ADF&G to help users load and unload gear and prevent congestion in new boat launch area. The MSB engineer is working on obtaining a cost estimate and design for ADF&G approval. If approved the project scope of work would be updated to include this improvement. If approved construction would begin in April and be completed in early June 2020.

The estimated cost of the floating dock is approximately \$100,000. This would leave \$8,000 of construction contingency within the current project budget.



- — ○ handrail
- cleat 18ea
- Edge bumper
- ∩ 10" piling loops (for 6" piling)
- 3" pole connectors
- ^ Bumpers

IV. PUBLICATIONS



Photo showing the first weekend the boat launch reopened, Saturday August 8, 2019. The old parking lot area was completely full.



Photo showing congestion at the new boat launch after it reopened to the public.

V. RECOMMENDATIONS FOR THIS PROJECTThe Lake Louise MSB Recreation Site Upgrade project grant will need to be extended to October 31, 2020 due to the time it will take to implement the permafrost construction techniques recommended by the designer of record, HDL.

Prepared by:

Robert L Walden, PE

Katie Sechrist, ADF&G

Date: August 29, 2019