

Flood Mitigation Action Timetable

May 2020

Riprap Erosion Control Structure Observations

Erosion control structures should be assessed at least bi-annually. However due to the specific hydrologic characteristics of Valdez, it's recommended to review:

- Prior to Spring 'break-up'
- During or after the high river discharge events at 'break-up'
- Prior to predicted glacial outburst or heavy rain event
- During or after the glacial outburst or heavy rain event
- During localized erosion events

Action Required:

- Use Appendix 4 of the Riprap Maintenance Manual to guide observations.
- Save photos and report/field notes in an accessible file.
- Report and plan for maintenance following Section 3.2, Planning Maintenance Activities, of Riprap Maintenance Manual.

Floodplain Monitoring

Floodplain monitoring should be conducted at times of low flow as well as immediately before and after gravel extraction. However, it can additional data can be collected at the same time as the observation of the riprap erosion control structures.

Actions Required:

- Take downward facing and highly overlapping (approximately 70 percent sidelap and 50 percent forward overlap) aerial photos covering the channel 1,000 feet upstream and downstream of the project limits immediately before and after the project.
- Note location of channels within floodplain.
- Note if flows are impinging on or actively eroding structures/banks.

Review of Flood Mitigation Plans

Flood mitigation plans are intended to be updated in response to new data made available from the monitoring efforts.

If no significant changes occur during monitoring of the Lowe River, the flood mitigation plan will be reviewed every two years.

Both the analysis of data and document review should be conducted by a Professional Engineer (Hydraulic) or Geomorphologist.

The approved, updated plan will be forwarded to the DNR for review followed by review by stakeholders that are involved in the flood mitigation efforts on the applicable floodplains.

Annual Timetable & Items to Note

April

- 1st Start of the Fish Window (Lowe River)
- 15th Start of Fish Window (Mineral Creek)
- Pre breakup observations

May

- Breakup observations

June

- Observation on Glacier Stream before and after glacial outburst

July – September

- Monitoring & maintenance as needed

October

- 1st End of the Fish Window (Lowe River & Mineral Creek)
- Conduct floodplain monitoring during low flows

November – March:

- Plan, design and permit projects
- Complete gravel extraction as needed

Note: Always confirm fish windows with ADF&G