

Enclosure 1

Currently Authorized Mixing Zones

157 Municipal Wastewater Treatment Plants

Municipal Wastewater (Sewage) Treatment plants discharge to both fresh and marine water. Their mixing zones vary in size.

204 Seafood Processors

Most of the seafood processors discharge to marine waters under several general and individual permits, the bulk of them under general permits. The mixing zone under these general permits is described as a cylindrical volume of water, with a horizontal radius of 100 feet from the diffuser and the full depth of the waterbody.

59 Placer Mines

Placer mines operate under a general permit, with site-specific, freshwater mixing zones.

15 Oil and Gas Related Facilities

All oil and gas related facilities with authorized mixing zones discharge to marine waters.

3 Large Mines (all others meet WQS at end of pipe or do not discharge to surface water)

Greens Creek Mine has domestic and industrial discharges to marine waters of Hawk Inlet. Red Dog Mine has an industrial discharge to Ikalukrok and Red Dog Creeks. Usibelli Coal mine is in the process of collecting data that will support future mixing zone authorizations for their multiple discharges into Hoseanna Creek.

1 Fertilizer Plant

Agrium has an industrial discharge to Cook Inlet.