K4.22 WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

4.22.1 Wetlands and Other Waters Map Series

Appendix K4.22 comprises the Wetlands and Other Waters Map Series, which includes an Index Sheet followed by Figure K4.22-1 through Figure K4.22-56.
WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22 INDEX SHEET

Sources: PLP 2018

PEBBLE PROJECT EIS
SEDIMENT POND

POTABLE WATER WELL FIELD

GROWTH MEDIA

MILL CAMP & ADMIN BUILDINGS

Sources: Pebble 2018; HDR; USFWS; UAF

Impact Type
- Permanent
- Temporary
- Fragmentation
- Dust
- Dewatering

NWI Classes
- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas

Cook Inlet

Iliamna Lake

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-2 of 56
Impact Type
Permanent
Fragmentation
Dust

NWI Classes
Broad Leaved Deciduous Shrubs
Herbaceous

Ponds
Rivers/Streams (Intermittent)
Rivers/Streams (Perennial)
Upland

Sources: Pebble 2018; HDR; USFWS; UAF
WETLANDS AND OTHER WATERS MAP SERIES

Impact Type
- Permanent
- Temporary
- Fragmentation

NWI Classes
- Broad Leaved Deciduous Shrubs
- Herbaceous
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

Sources: Pebble 2018; HDR; USFWS; UAF
Impact Type: Permanent, Fragmentation, Dust
NWI Classes: Broad Leaved Deciduous Shrub, Herbaceous, Ponds, Rivers/Streams (Intermittent), Rivers/Streams (Perennial), Upland

Sources: Pebble 2018; HDR; USFWS; UAF

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-6 of 56
WETLANDS AND OTHER WATERS MAP SERIES

Impact Type
- Permanent
- Dust
- Dewatering

NIW Classes
- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

Sources: Pebble 2018; HDR; USFWS; UAF
Iliamna Spur Road

Impact Type
Permanent
Temporary
Dust

WES-14

WES-19

MS-T03

MS-N01

NWI Classes
Broad Leaved Deciduous Shrubs
Herbaceous
Lakes
Ponds
Rivers/Streams (Intermittent)
Rivers/Streams (Perennial)
Upland

Cook Inlet
Iliamna Lake

Sources: Pebble 2018; HDR; USFWS; UAF

PEBBLE PROJECT EIS

FIGURE K4.22-10 of 56
NEWHALEN RIVER BRIDGE

Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Aquatic Bed
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs
- Herbaceous
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

WETLANDS AND OTHER WATERS MAP SERIES

Sources: Pebble 2018; HDR; USFWS; UAF

PEBBLE PROJECT EIS

FIGURE K4.22-11 of 56
Impact Type

Permanent
Temporary

NWI Classes

Broad Leaved Deciduous Shrubs
Deciduous Forest
Herbaceous

Ponds
Rivers/Streams (Intermittent)
Rivers/Streams (Perennial)
Upland

Sources: Pebble 2018; HDR; USFWS; UAF
Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrub
- Herbaceous

Wetlands and Other Waters Map Series

Sources: Pebble 2018; HDR; USFWS; UAF

Figure K4.22-15 of 56

Wetlands and Other Waters Map Series

PEBBLE PROJECT EIS
Impact Type: Permanent, Temporary, Dust

NWI Classes:
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

Sources: Pebble 2018; HDR; USFWS; UAF

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-16 of 56

PEBBLE PROJECT EIS
WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-21 of 56

Sources: Pebble 2018; HDR; USFWS; UAF
Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs
- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

Sources: Pebble 2018; HDR; USFWS; UAF

PEBBLE PROJECT EIS
WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-23 of 56
Sources: Pebble 2018; HDR; USFWS; UAF
Kokhanok
WES-KE39

Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Evergreen Shrub
- Rivers/Streams (Perennial)
- Upland

Herbaceous

UAF Data
- Wetland
- Non-wetland
- No Data

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-28 of 56

Sources: Pebble 2018; HDR; USFWS; UAF

PEBBLE PROJECT EIS
Impact Type  | NWI Classes  | USFWS NWI Mapping Areas
---|---|---
Permanent  | Aquatic Bed  | Herbsaceous
Temporary  | Broad Leaved Deciduous Shrubs  | Rivers/Streams (Perennial)
Dust  | Deciduous Forest  | Ponds

Sources: Pebble 2018; HDR; USFWS; UAF

WETLANDS AND OTHER WATERS MAP SERIES

PEBBLE PROJECT EIS

FIGURE K4.22-31 of 56
Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs
- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

Sources: Pebble 2018; HDR; USFWS; UAF

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-33 of 56
Impact Type
Permanent
Temporary
Dust

NWI Classes
Broad Leaved Deciduous Shrubs
Deciduous Forest
Evergreen Shrubs
Herbaceous

Upland
Lakes
Ponds

Sources: Pebble 2018; HDR; USFWS; UAF

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-34 of 56
Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Herbaceous
- Ponds
- Rivers/Streams (Perennial)
- Upland

Sources: Pebble 2018; HDR; USFWS; UAF

PEBBLE PROJECT EIS
WETLANDS AND OTHER WATERS MAP SERIES
FIGURE K4.22-35 of 56
EAGLE BAY FERRY TERMINAL

Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas

Sources: Pebble 2018; HDR; USFWS; UAF

PEBBLE PROJECT EIS

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-37 of 56
Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs
- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

Sources: Pebble 2018; HDR; USFWS; UAF

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-38 of 56
**Impact Type**
- Permanent
- Temporary
- Dust

**NWI Classes**
- Broad Leaved Deciduous Shrubs
- Herbaceous
- Lakes
- Rivers/Streams (Perennial)
- Upland

**Sources:** Pebble 2018; HDR; USFWS; UAF
Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Herbaceous
- Ponds
- Rivers/Streams (Perennial)
- Upland

Sources: Pebble 2018; HDR; USFWS; UAF

WETLANDS AND OTHER WATERS MAP SERIES

PEBBLE PROJECT EIS
WETLANDS AND OTHER WATERS MAP SERIES

Sources: Pebble 2018; HDR; USFWS; UAF

Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs
- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

PEBBLE PROJECT EIS

FIGURE K4.22-43 of 56
Impact Type | NWI Classes
--- | ---
Permanent | Broad Leaved Deciduous Shrubs
Temporary | Deciduous Forest
Dust | Herbaceous

Sources: Pebble 2018; HDR; USFWS; UAF

USFWS NWI Mapping Areas

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-44 of 56
Sources: Pebble 2018; HDR; USFWS; UAF

Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs
- Herbaceous
- Lakes
- Ponds
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas

PILE BAY FERRY TERMINAL

FIGURE K4.22-47 of 56
Impact Type
Permanent
Temporary
Dust

NWI Classes
Herbaceous
Broad Leaved Deciduous Shrubs
Deciduous Forest
Ponds
Rivers/Streams (Perennial)
Upland

Sources: Pebble 2018; HDR; USFWS; UAF
Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Estuarine (Intertidal)
- Estuarine (Subtidal)
- Herbaceous
- Rivers/Streams (Perennial)
- Rivers/Streams (Tidal)
- Upland

USFWS NWI Mapping Areas

Sources: Pebble 2018; HDR; USFWS; UAF
Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Broad Leaved Deciduous Shrubs
- Estuarine (Intertidal)
- Estuarine (Subtidal)
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Upland

Sources: Pebble 2018; HDR; USFWS; UAF

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-51 of 56

PEBBLE PROJECT EIS
DIAMOND POINT PORT

Impact Type
- Permanent
- Temporary
- Dust

NWI Classes
- Estuarine (Intertidal)
- Estuarine (Subtidal)
- Rivers/Streams (Perennial)
- Upland

USFWS NWI Mapping Areas

Sources: Pebble 2018; HDR; USFWS; UAF

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-52 of 56
Impact Type: Permanent Dust
NWI Classes: Ponds, Rivers/Streams (Perennial), Upland
USFWS NWI Mapping Areas

WETLANDS AND OTHER WATERS MAP SERIES

FIGURE K4.22-53 of 56
Impact Type
Permanent
Temporary
NWI Classes
Broad Leaved Deciduous Shrubs
Evergreen Shrubs
Marine (Intertidal)
Marine (Subtidal)
Upland