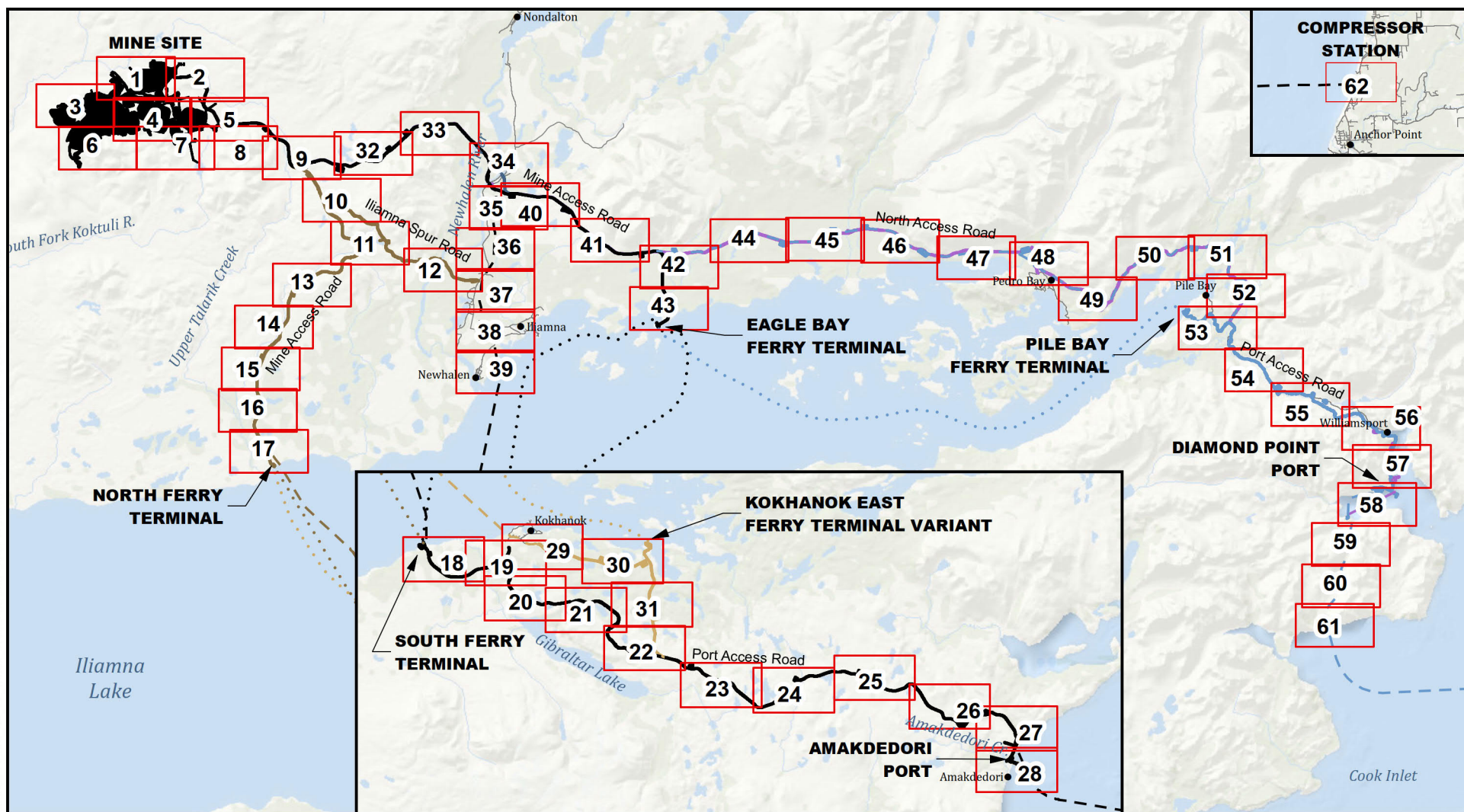


K4.22 WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

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 K4.22-62.



Source: PLP 2020 RFI-168; PLP 2019 RFI-153



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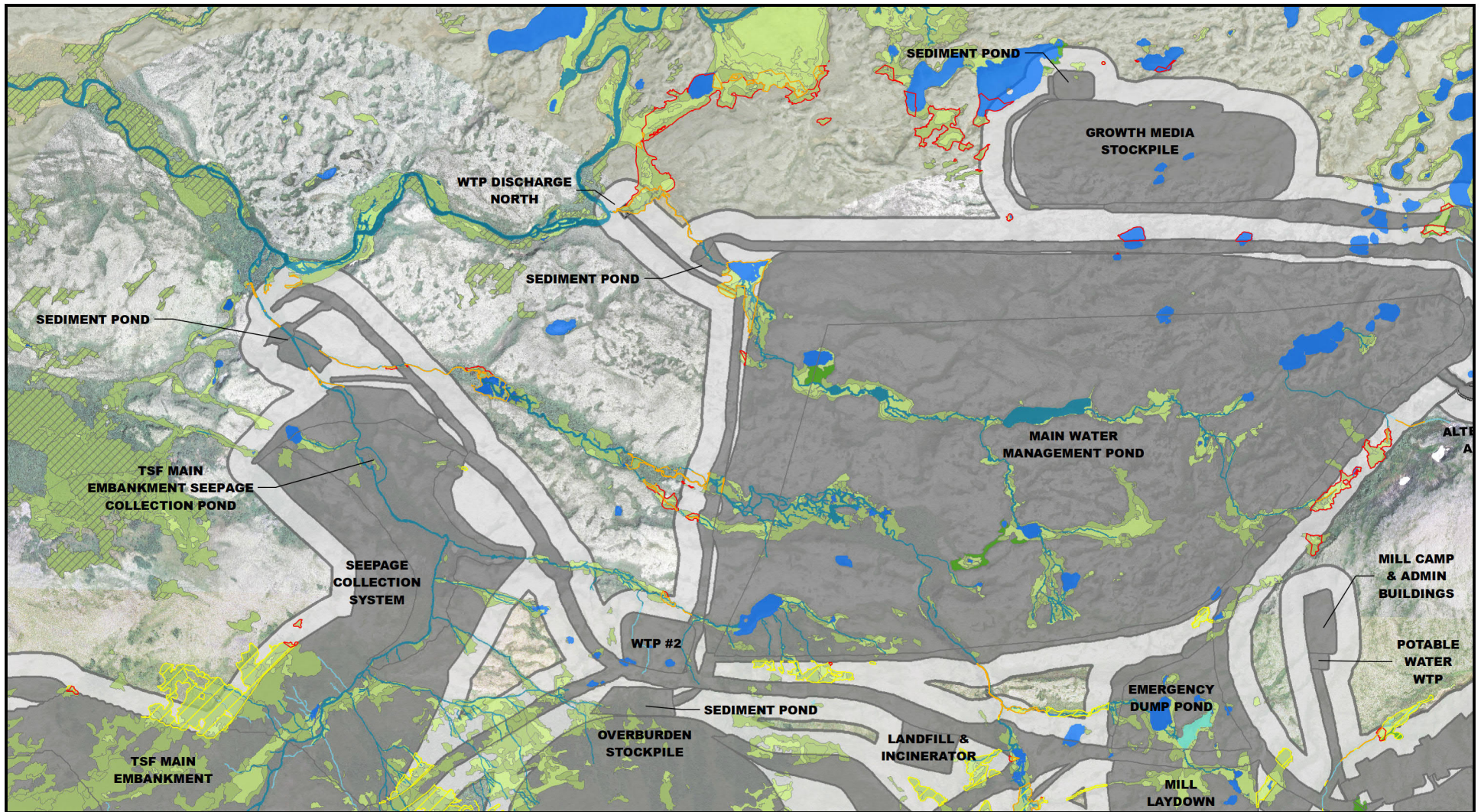


- K4.22 Page Number
- Action Alternatives**
- Ferry Routes
- Natural Gas Pipelines
- Alternative 1a
- Alternative 1
- Alternative 1 Kokhanok East Ferry Terminal Variant
- Alternative 2
- Alternative 2 Newhalen River North Crossing Variant
- Alternative 3

PEBBLE PROJECT EIS

WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

FIGURE K4.22 INDEX SHEET



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

Permanent

Temporary

Indirect Impact

Fugitive Dust

High Drawdown (S0; End of Mining)

Moderate Drawdown (S0; End of Mining)

Fragmented

NWI Classes

Aquatic Bed

Herbaceous

Broad Leaved Deciduous Shrubs

Evergreen Shrubs

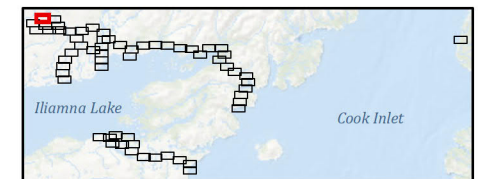
Ponds

Rivers/Streams (Intermittent)

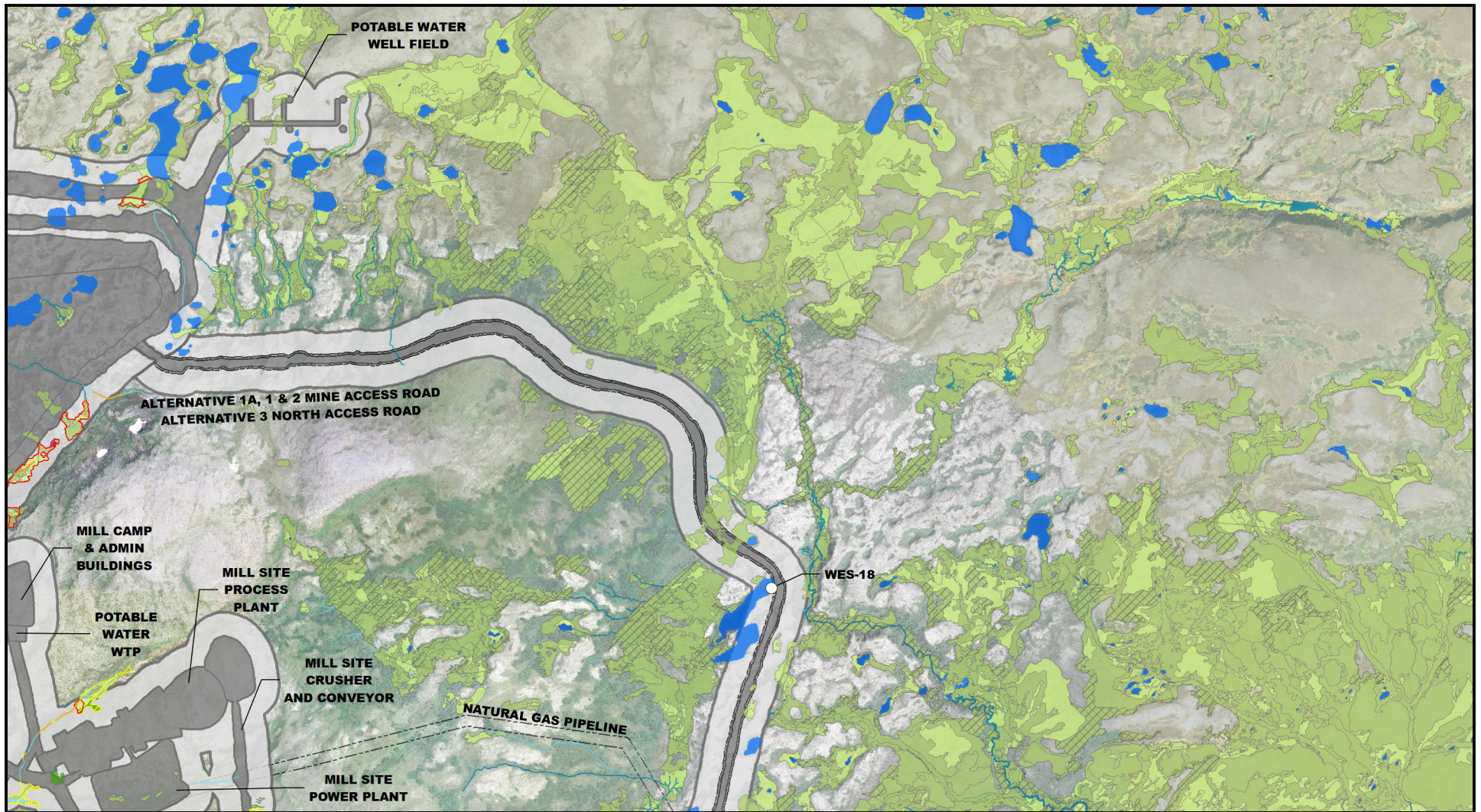
Rivers/Streams (Perennial)

Wetland/Upland Mosaic

Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

☒ Fugitive Dust

High Drawdown
(S0; End of Mining)

Moderate Drawdown
(S0; End of Mining)

Fragmented

NWI Classes

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

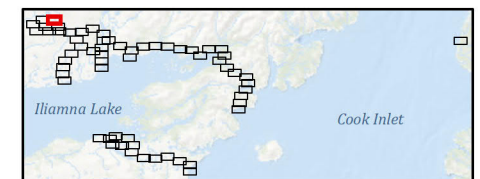
■ Ponds

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

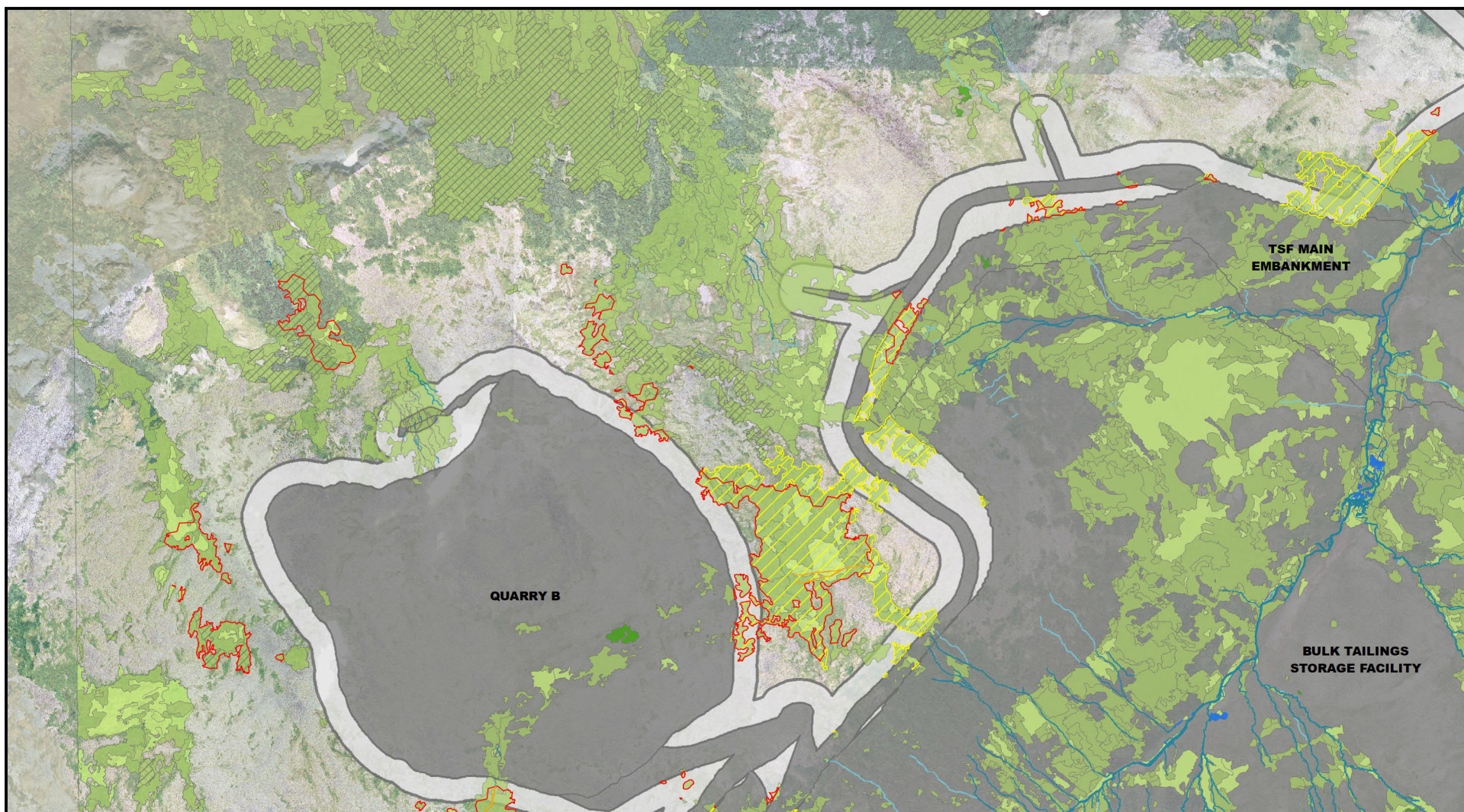
■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

FIGURE K4.22-2 of 62

PEBBLE PROJECT EIS



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

- Fugitive Dust

- High Drawdown (S0; End of Mining)

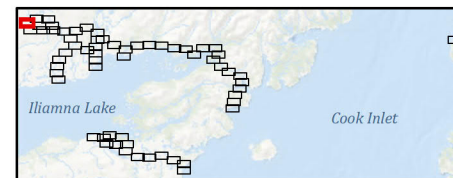
- Moderate Drawdown (S0; End of Mining)

- Fragmented

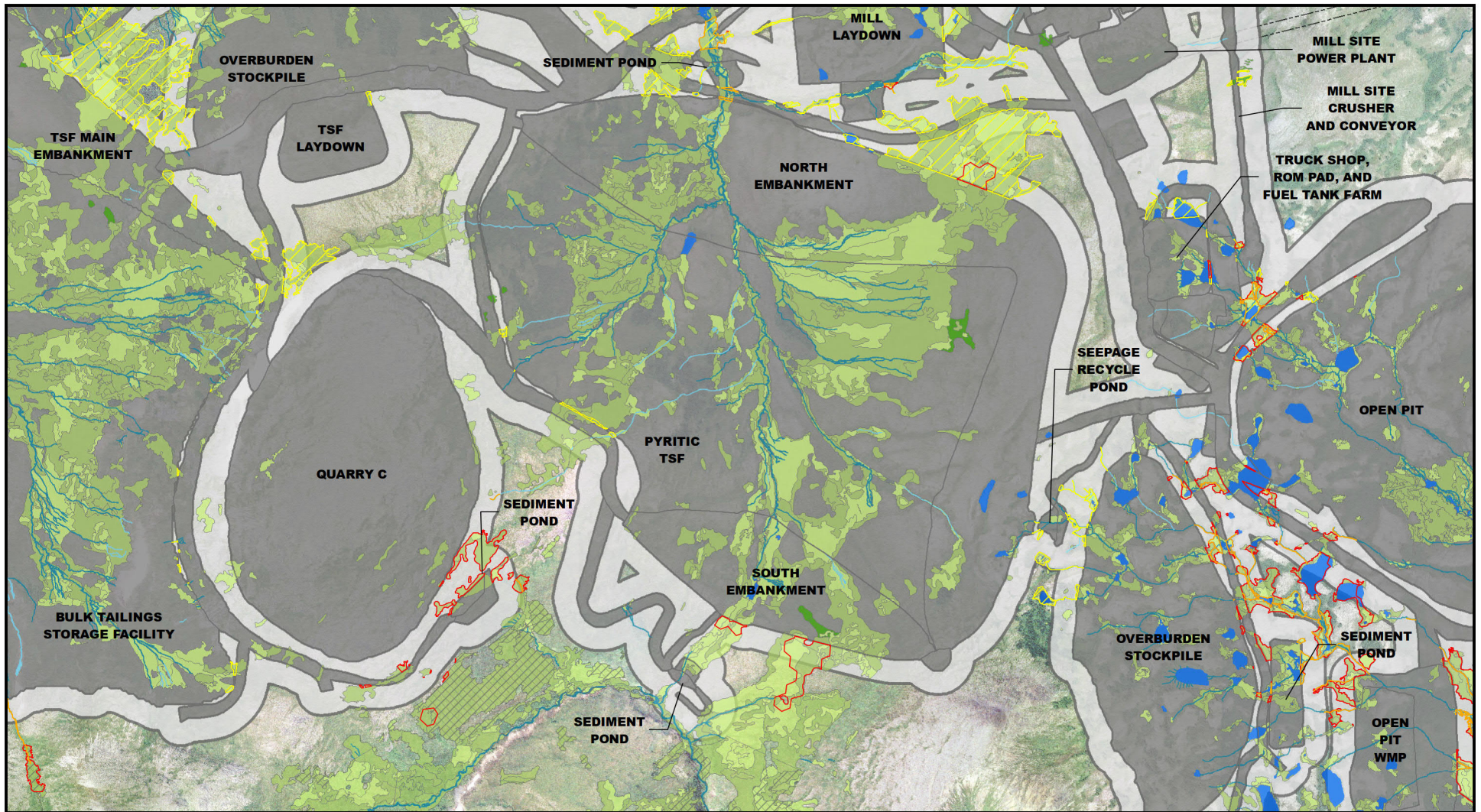
NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

Permanent

Temporary

Indirect Impact

Fugitive Dust

High Drawdown
(S0; End of Mining)

Moderate Drawdown
(S0; End of Mining)

Fragmented

NWI Classes

Herbaceous

Broad Leaved Deciduous Shrubs

Evergreen Shrubs

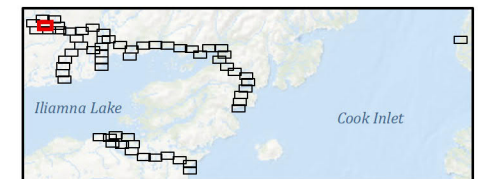
Ponds

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

Wetland/Upland Mosaic

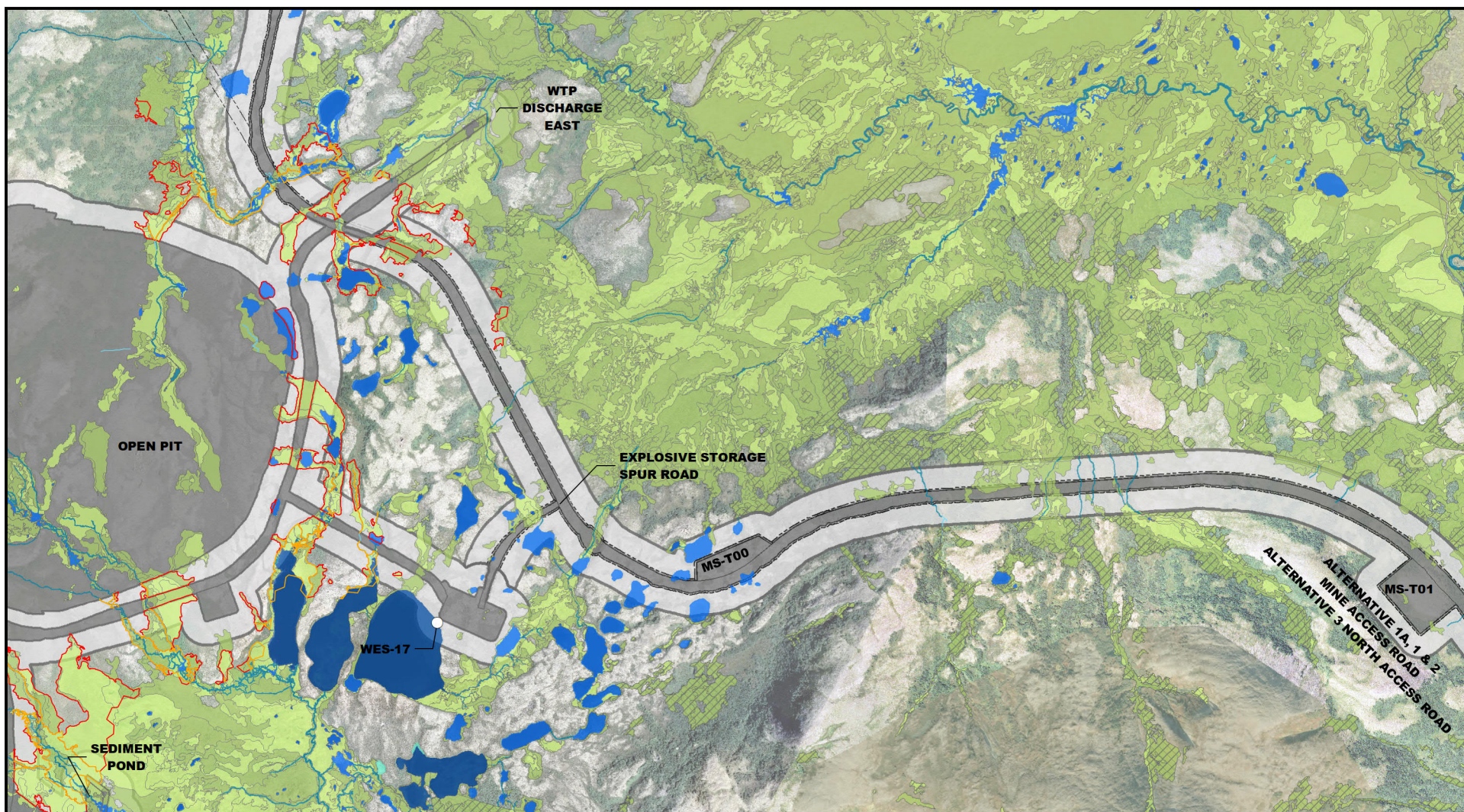
Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-4 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

High Drawdown (S0; End of Mining)

Moderate Drawdown (S0; End of Mining)

NWI Classes

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Deciduous Forest

■ Evergreen Shrubs

■ Ponds

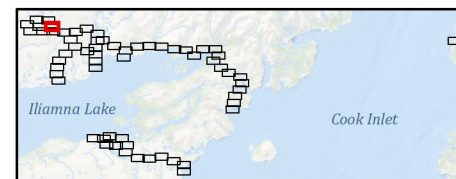
■ Lakes

■ Rivers/Streams (Intermittent)

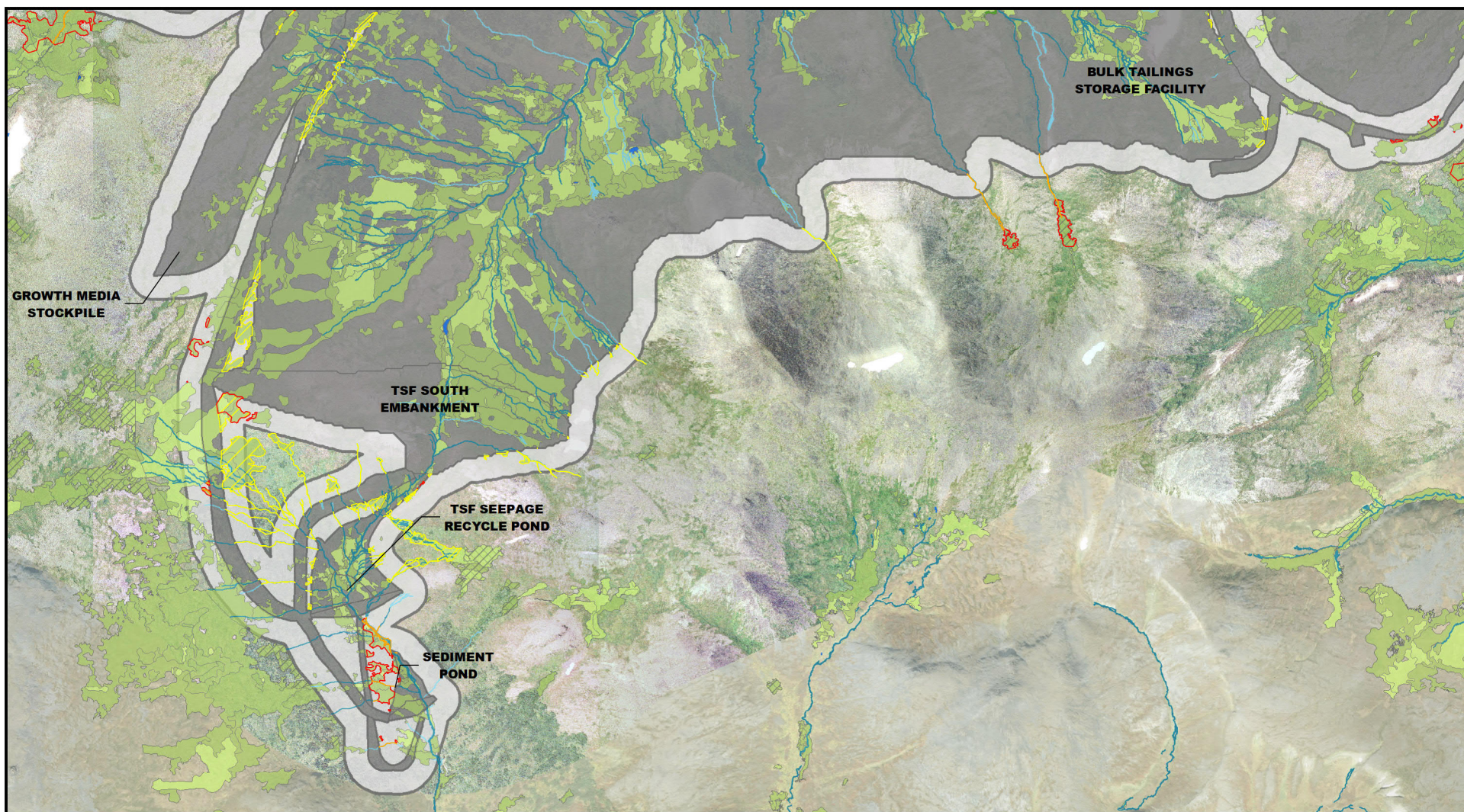
■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

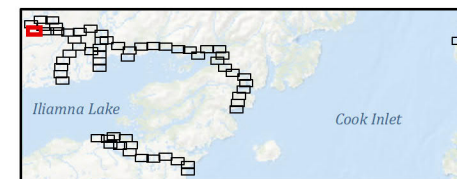
- Fugitive Dust

- High Drawdown (S0; End of Mining)
- Moderate Drawdown (S0; End of Mining)
- Fragmented

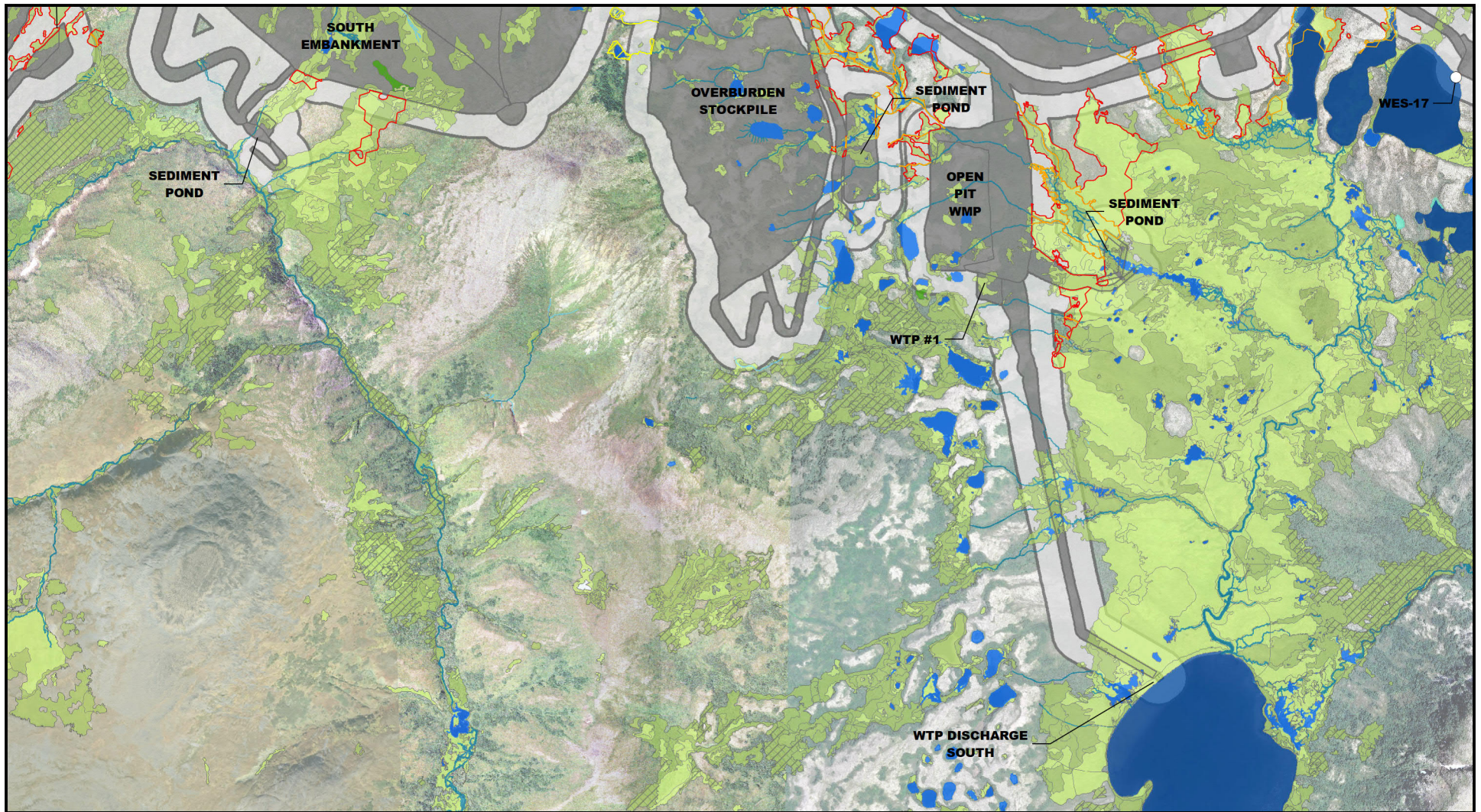
NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RF116; PLP 2020 RF1-168;
PLP 2019 RF1-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

High Drawdown
(S0; End of Mining)

Moderate Drawdown
(S0; End of Mining)

Fragmented

NWI Classes

Aquatic Bed

Herbaceous

Broad Leaved Deciduous Shrubs

Evergreen Shrubs

Ponds

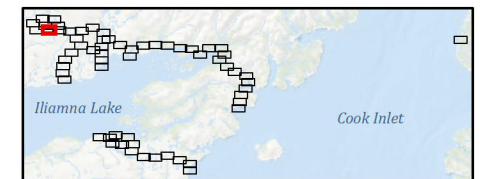
Lakes

Rivers/Streams (Intermittent)

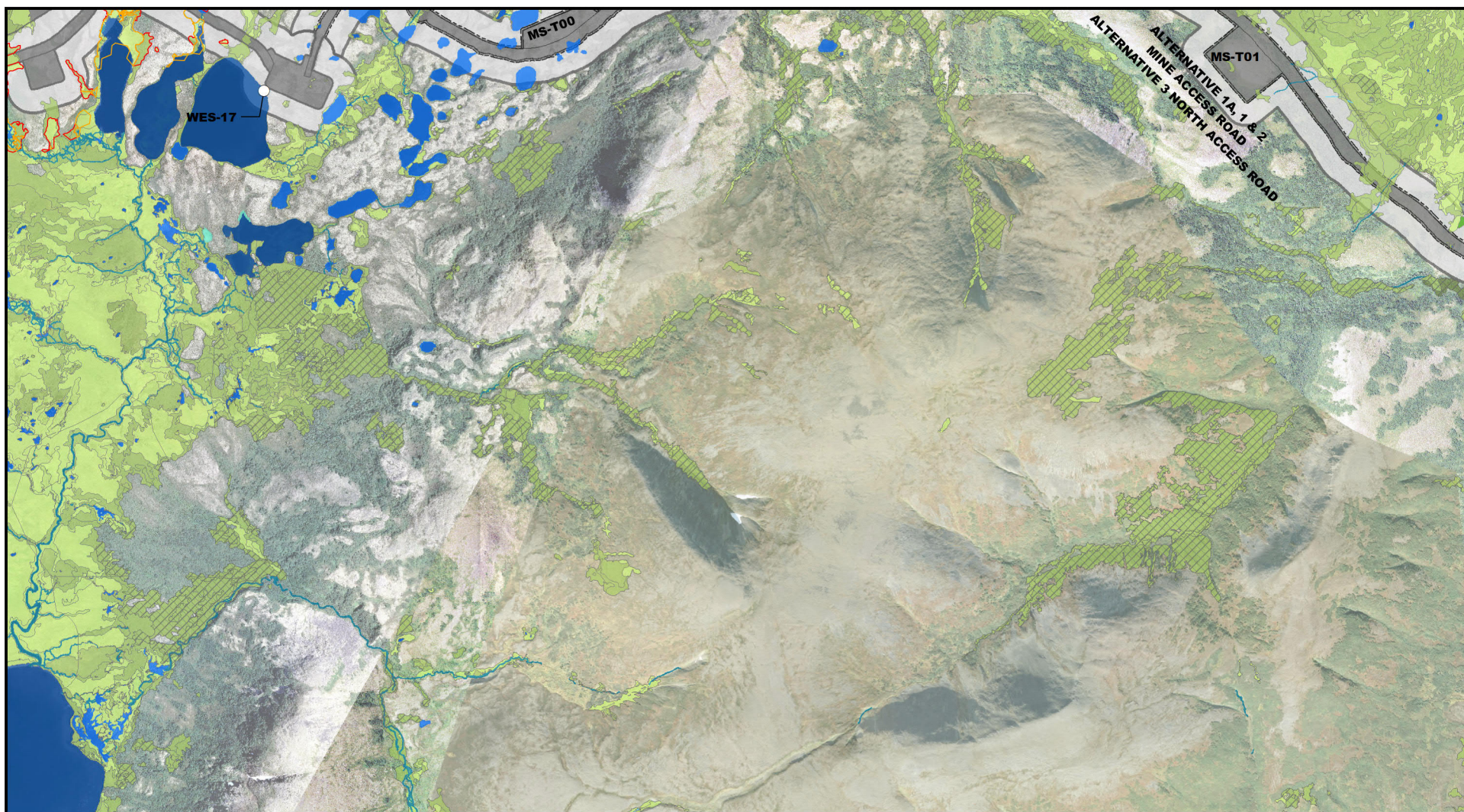
Rivers/Streams (Perennial)

Wetland/Upland Mosaic

Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

High Drawdown
(S0; End of Mining)

Moderate Drawdown
(S0; End of Mining)

NWI Classes

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Deciduous Forest

■ Evergreen Shrubs

■ Ponds

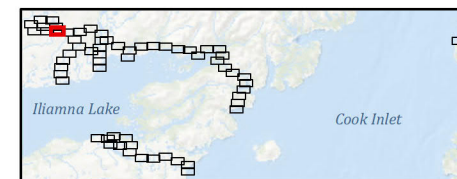
■ Lakes

■ Rivers/Streams (Intermittent)

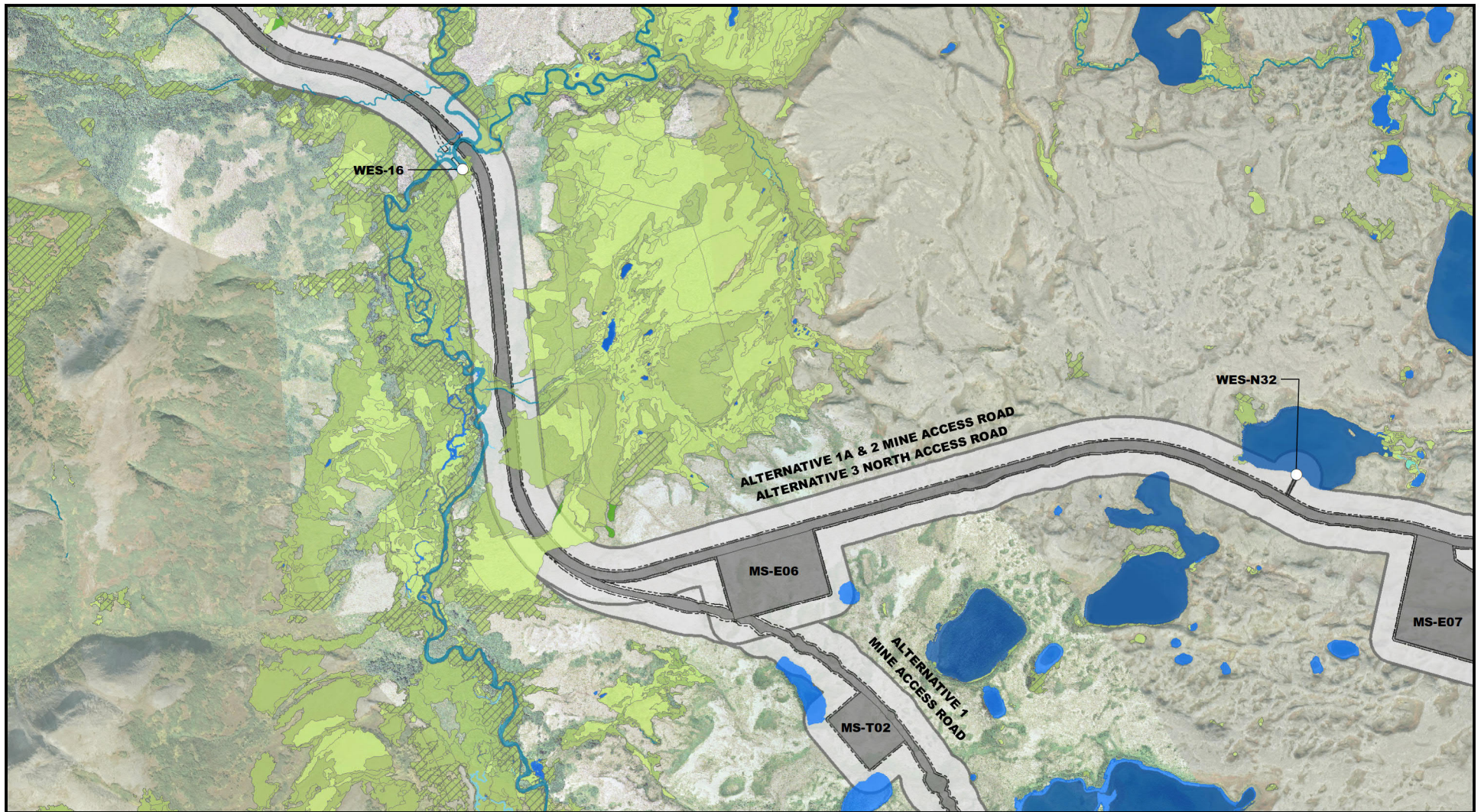
■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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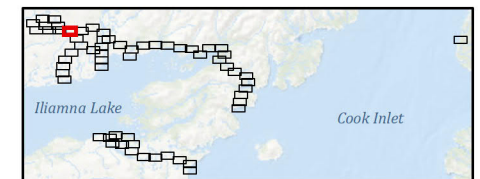
1,000 0 1,000 2,000
Feet

- Water Extraction Site
- Direct Impact**
- Permanent
- Temporary
- Indirect Impact**
- Fugitive Dust

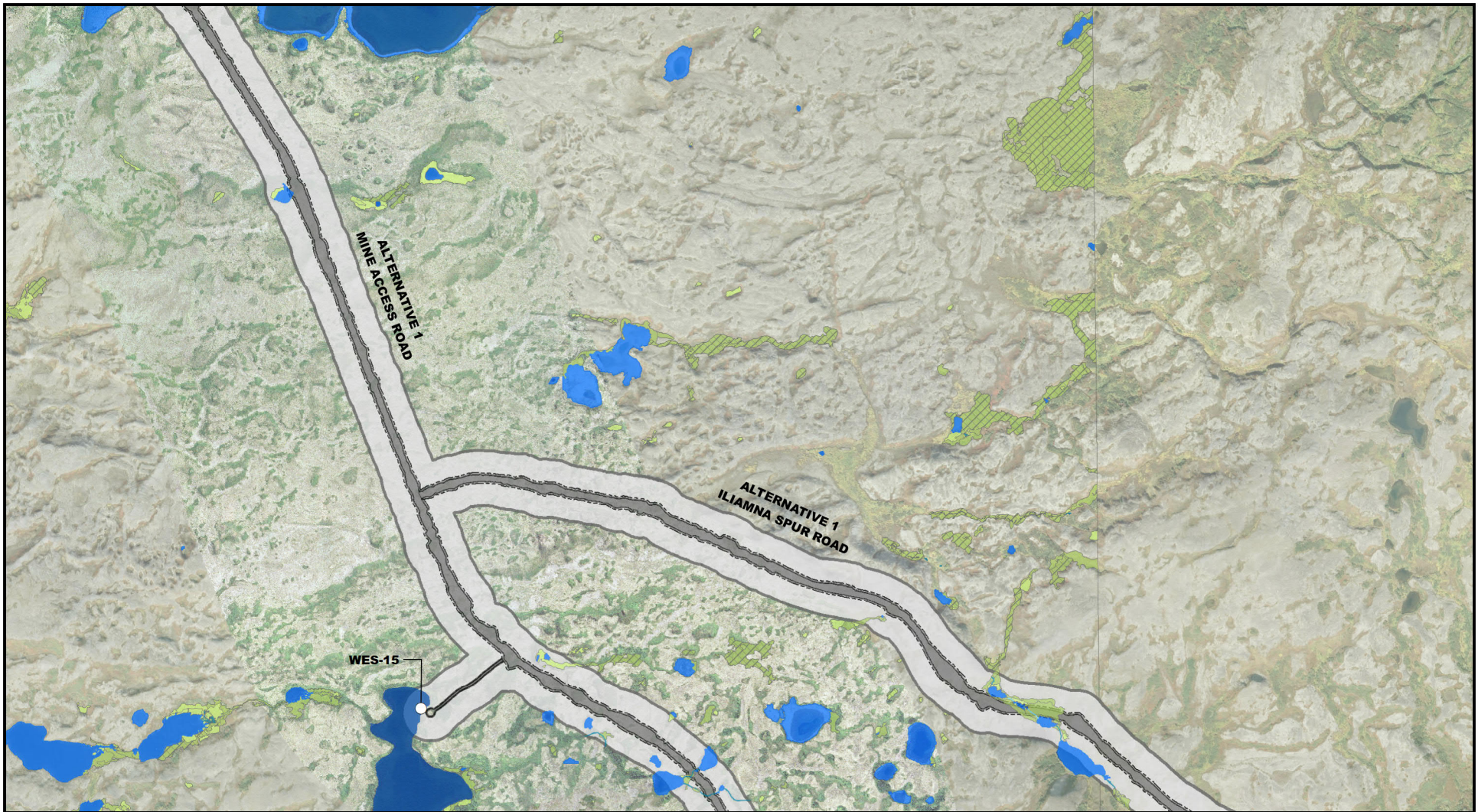
NWI Classes

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Evergreen Shrubs
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000



Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Ponds

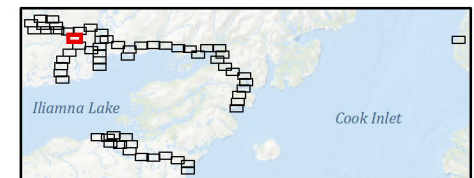
■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

FIGURE K4.22-10 of 62

PEBBLE PROJECT EIS



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

■ Ponds

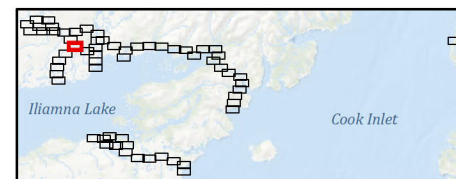
■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

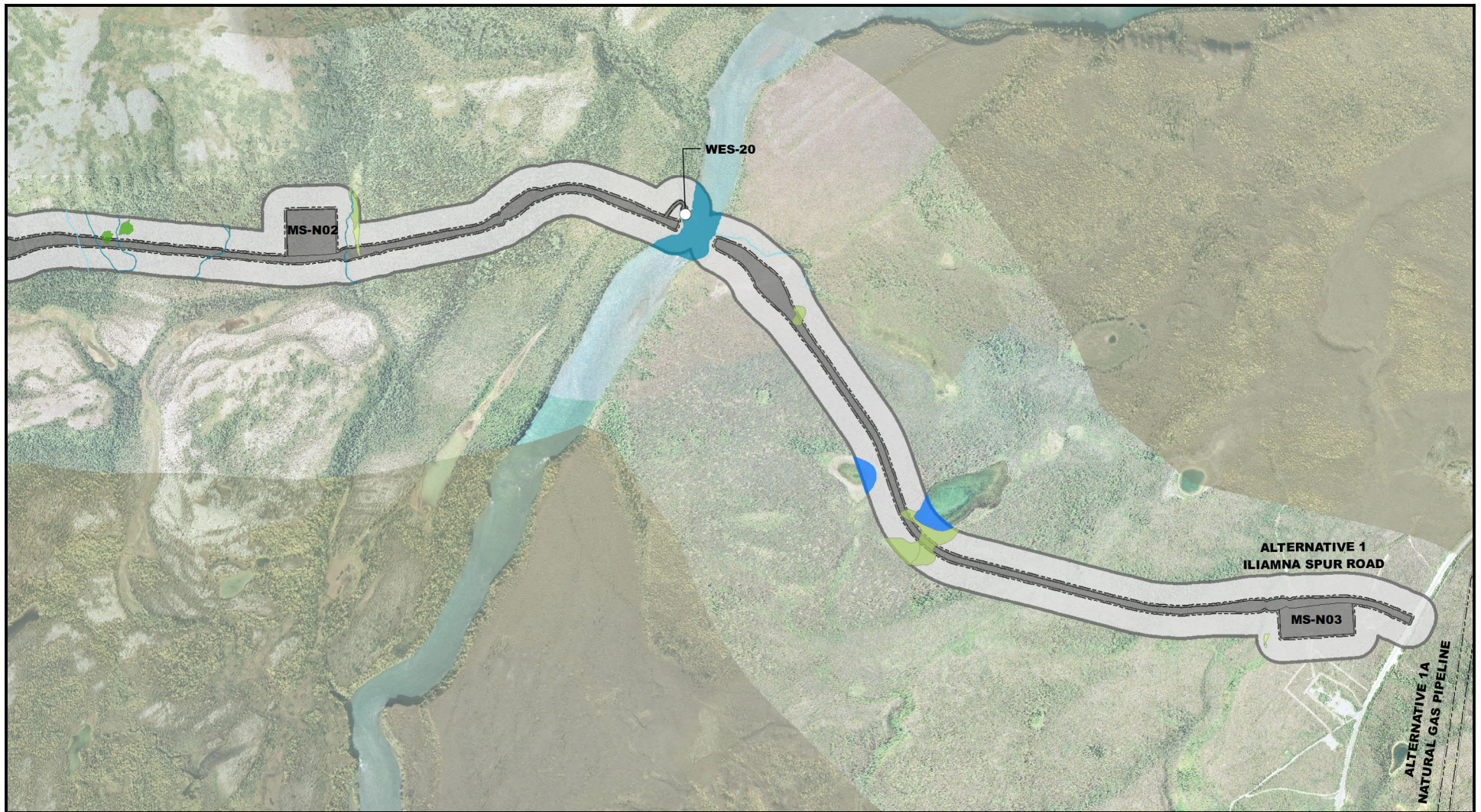
■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-11 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

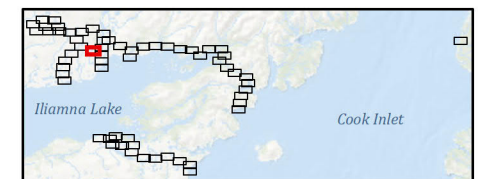
■ Evergreen Shrubs

■ Ponds

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

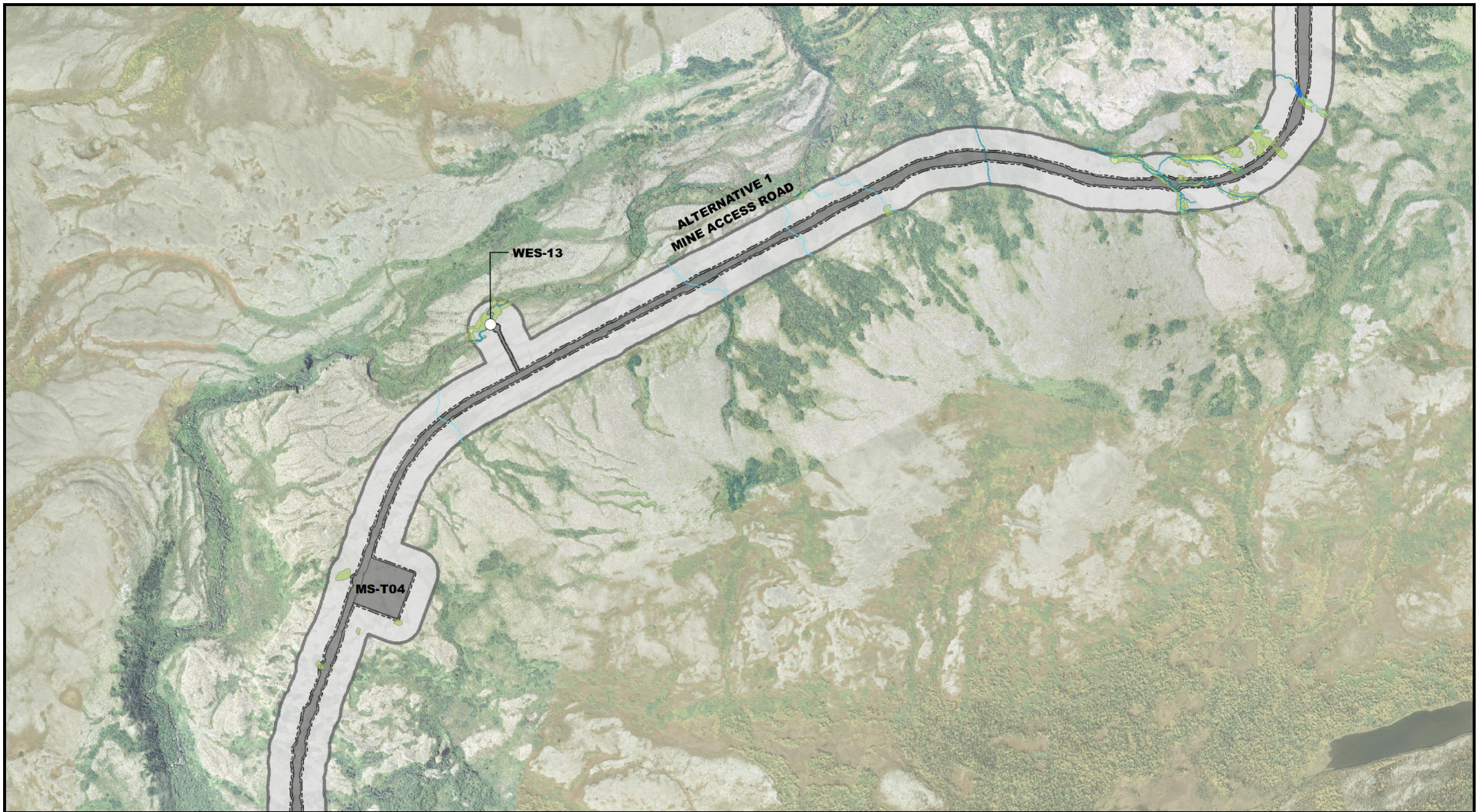
■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

FIGURE K4.22-12 of 62

PEBBLE PROJECT EIS



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153

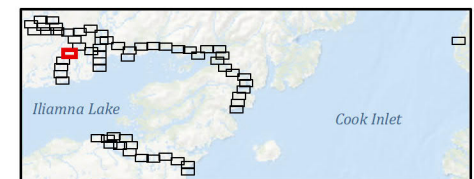


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1,000 0 1,000 2,000
Feet

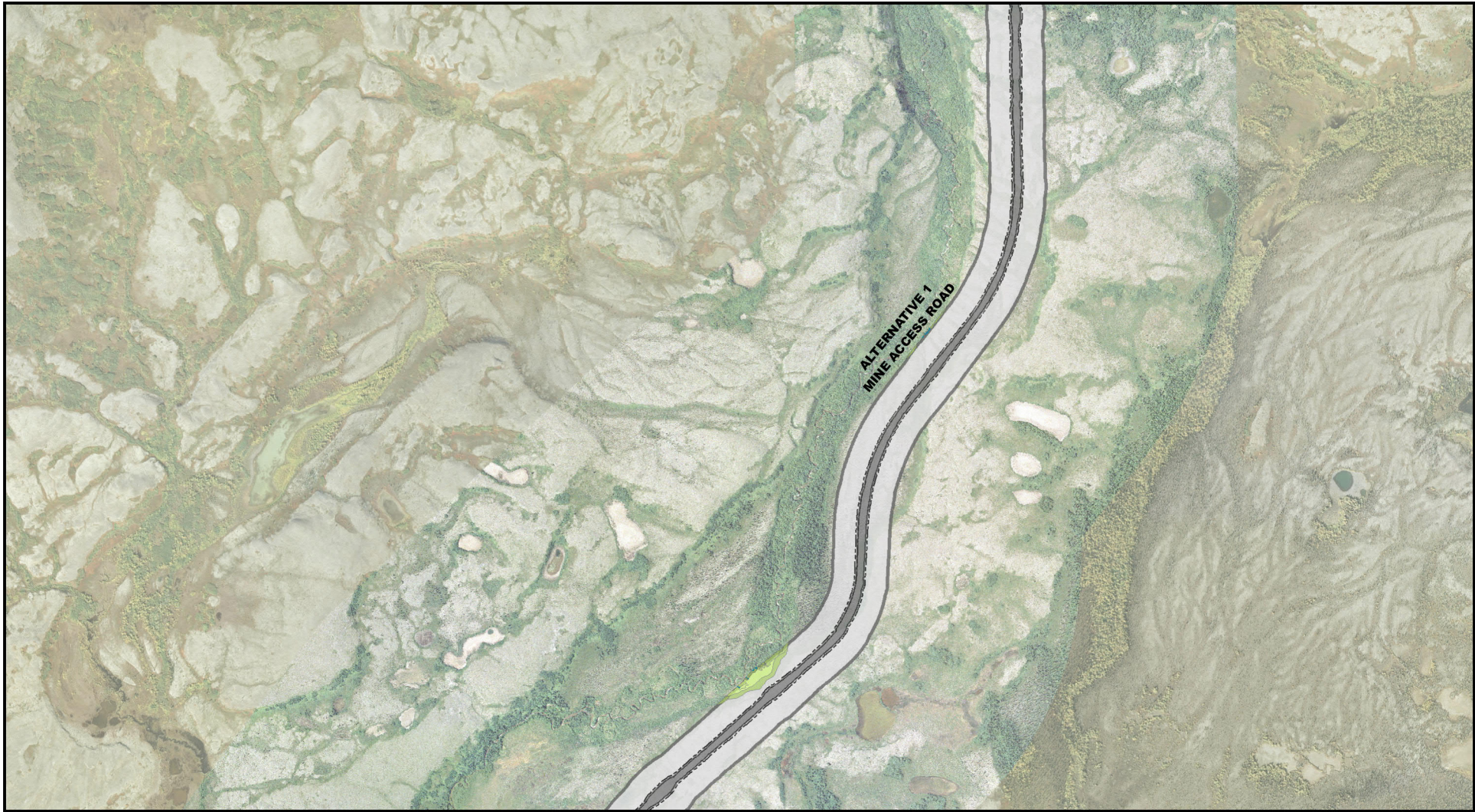
- | | | |
|-------------------------|-------------------------------|--------------------------------|
| ○ Water Extraction Site | NWI Classes | Ponds |
| Direct Impact | Herbaceous | Rivers/Streams (Intermittent) |
| Permanent | Broad Leaved Deciduous Shrubs | Rivers/Streams (Perennial) |
| Temporary | | Uplands/Mapped Wetlands Extent |
| Indirect Impact | | |
| Fugitive Dust | | |



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

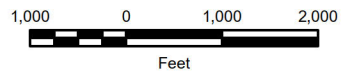
FIGURE K4.22-13 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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Direct Impact

- Permanent
- Temporary

Indirect Impact

- Fugitive Dust

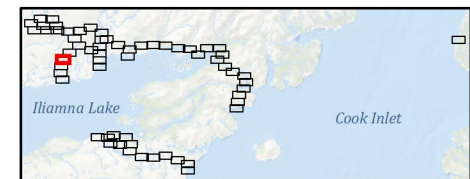
NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs

- Rivers/Streams (Intermittent)

- Rivers/Streams (Perennial)

- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

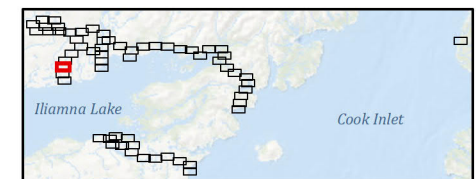
■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Ponds

■ Rivers/Streams (Perennial)

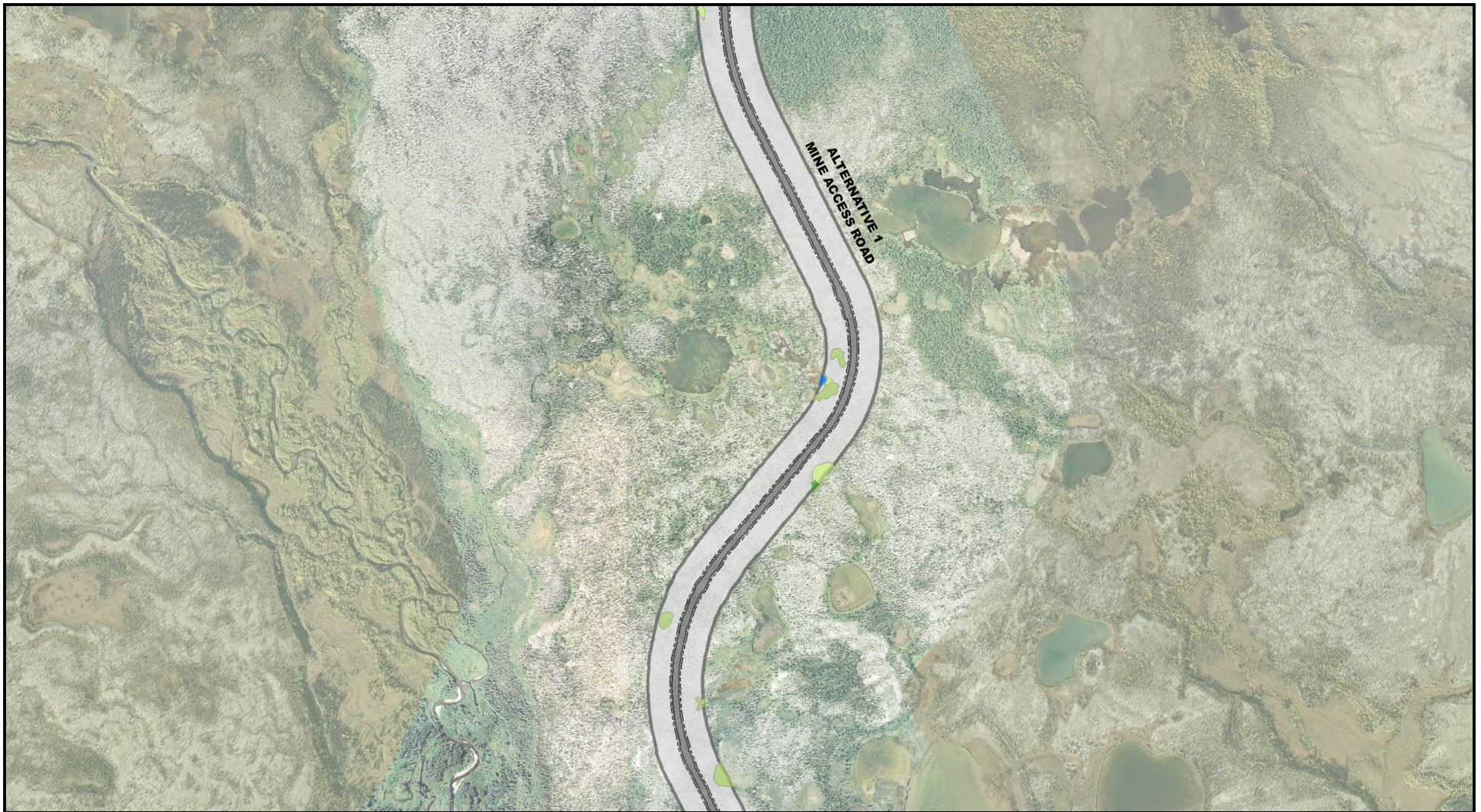
■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-15 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

Permanent

Temporary

Indirect Impact

Fugitive Dust

NWI Classes

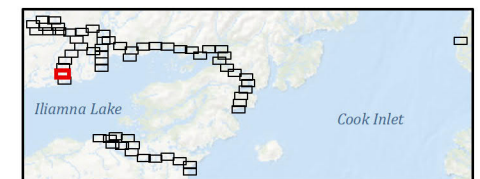
Herbaceous

Broad Leaved Deciduous Shrubs

Evergreen Shrubs

Ponds

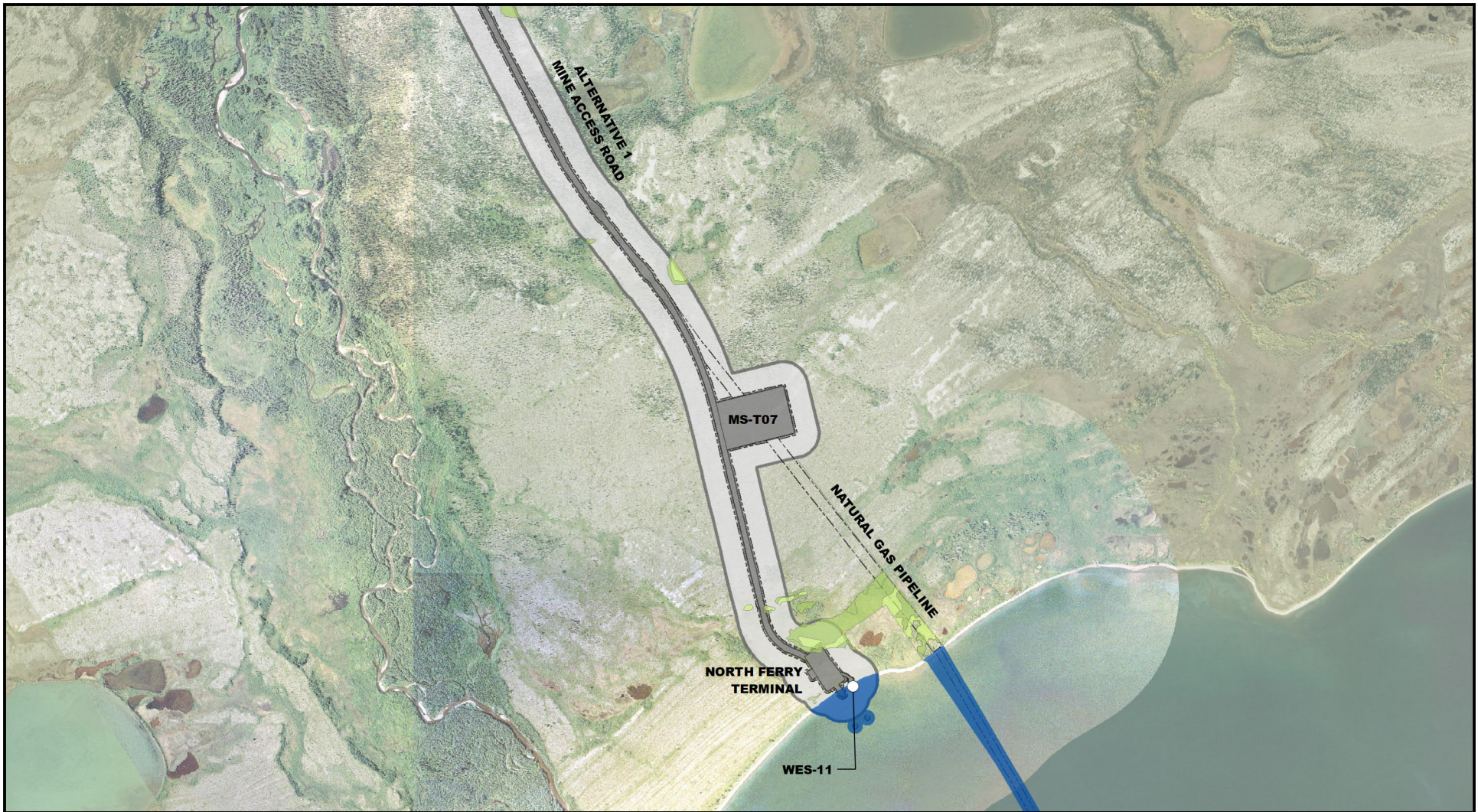
Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-16 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153

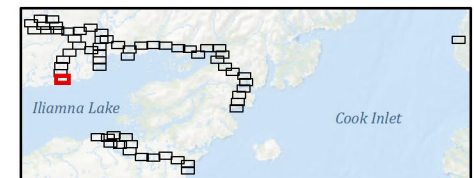


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1,000 0 1,000 2,000
Feet

- | | | |
|-------------------------|--------------------|----------------------------------|
| ○ Water Extraction Site | NWI Classes | ■ Broad Leaved Deciduous Shrubs |
| Direct Impact | ■ Herbaceous | ■ Lakes |
| ■ Permanent | | ○ Uplands/Mapped Wetlands Extent |
| ■ Temporary | | |
| Indirect Impact | | |
| ■ Fugitive Dust | | |



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-17 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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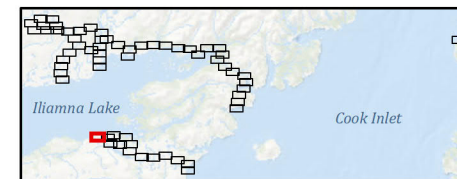


1,000 0 1,000 2,000
Feet

- Water Extraction Site
- Direct Impact**
- Permanent
- Temporary
- Indirect Impact**
- Fugitive Dust

- NWI Classes**
- Aquatic Bed
 - Herbaceous
 - Broad Leaved Deciduous Shrubs

- Evergreen Shrubs
- Ponds
- Lakes
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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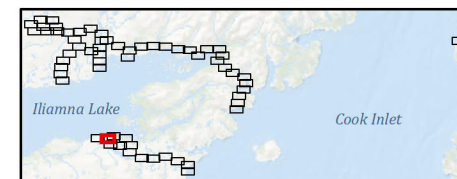
1,000 0 1,000 2,000
Feet

- Water Extraction Site
- Direct Impact**
- Permanent
- ▨ Temporary
- Indirect Impact**
- ▨ Fugitive Dust

NWI Classes

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Evergreen Shrubs
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- ▨ Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

■ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

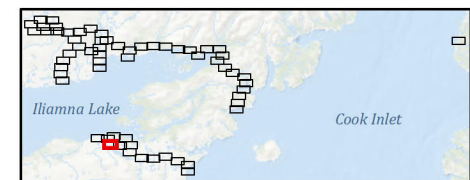
■ Ponds

■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

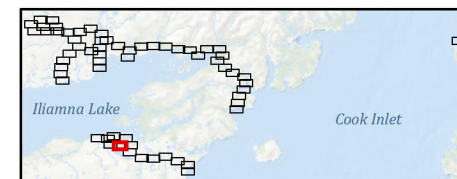
■ Ponds

■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

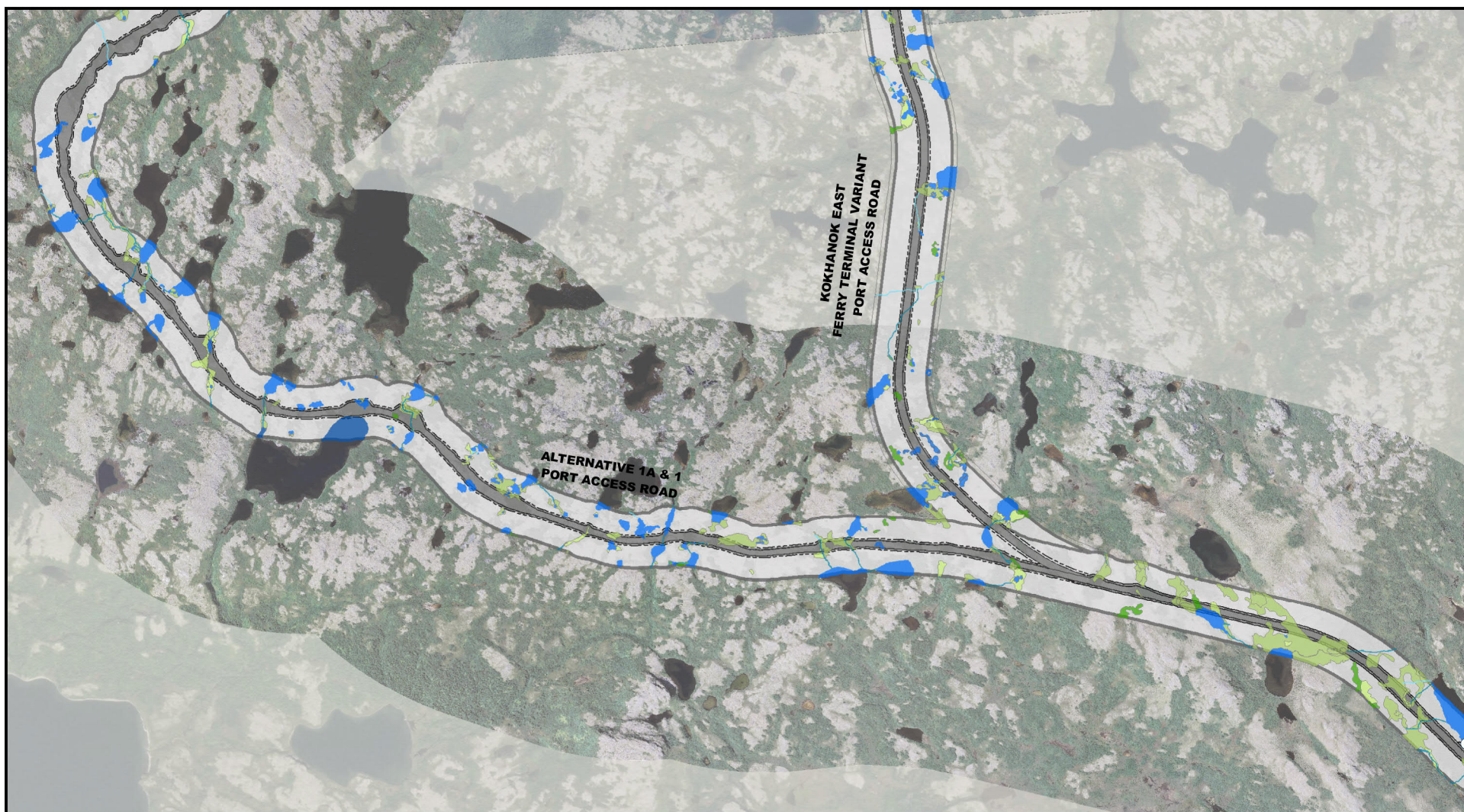
■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-21 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

■ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

■ Ponds

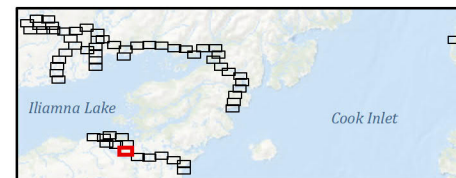
■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-22 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153

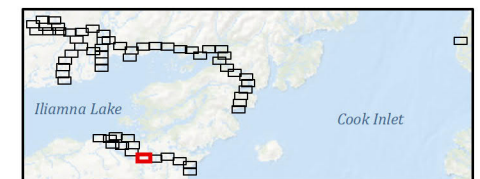


US Army Corps
of Engineers®



1,000 0 1,000 2,000
Feet

- | | | |
|-------------------------|-------------------------------|--------------------------------|
| ○ Water Extraction Site | NWI Classes | Ponds |
| Direct Impact | Herbaceous | Rivers/Streams (Intermittent) |
| Permanent | Broad Leaved Deciduous Shrubs | Rivers/Streams (Perennial) |
| Temporary | Evergreen Shrubs | Uplands/Mapped Wetlands Extent |
| Indirect Impact | | |
| Fugitive Dust | | |



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

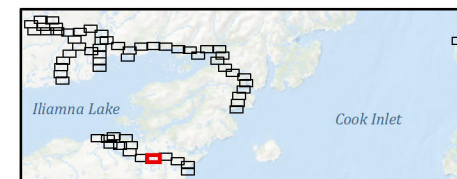
■ Ponds

■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-24 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

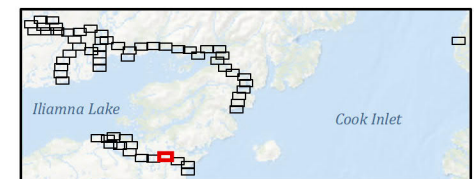
■ Ponds

■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

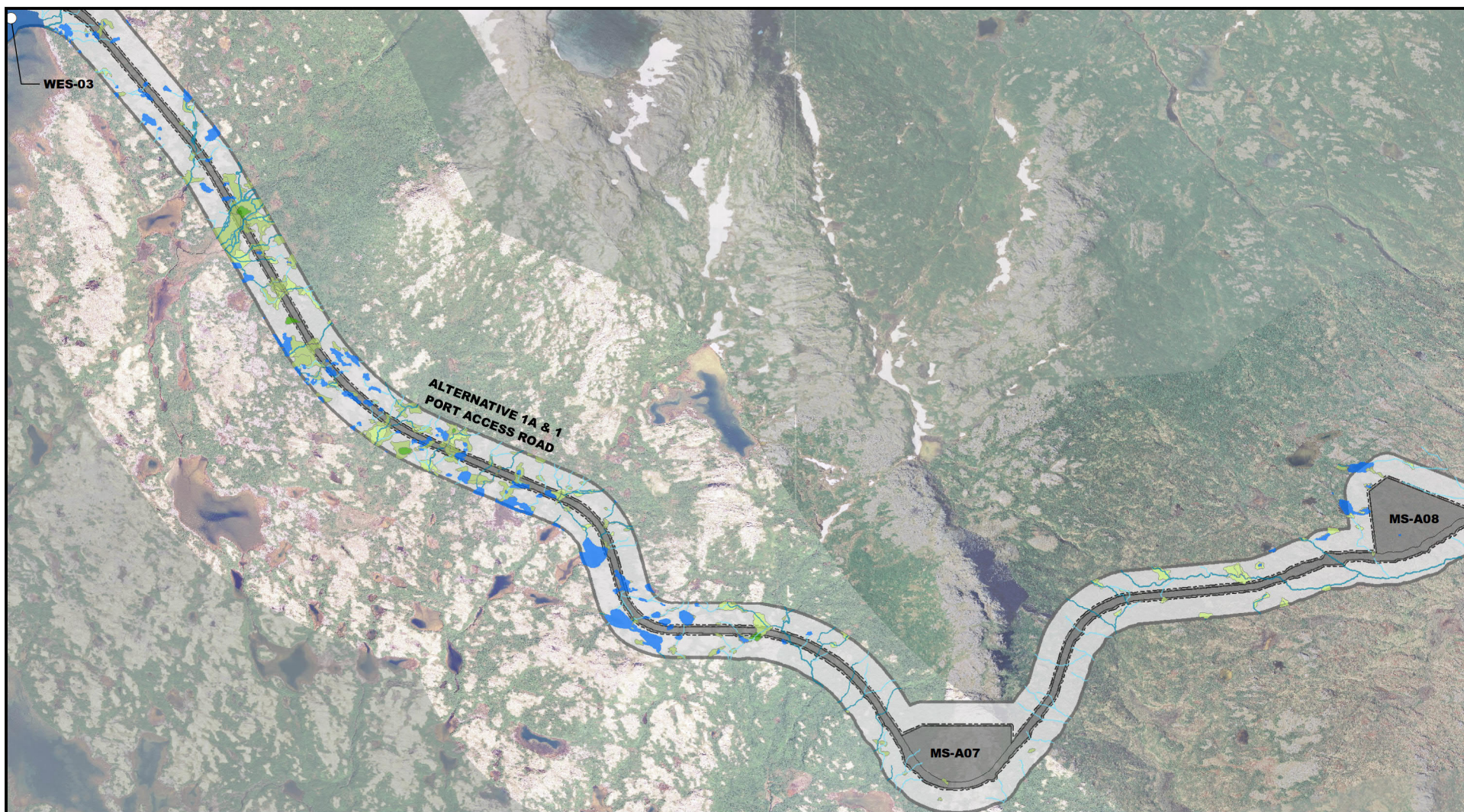
■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-25 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

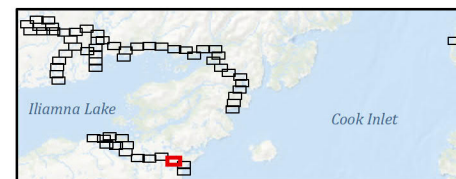
■ Ponds

■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

FIGURE K4.22-26 of 62

PEBBLE PROJECT EIS



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

■ Marine (Intertidal)

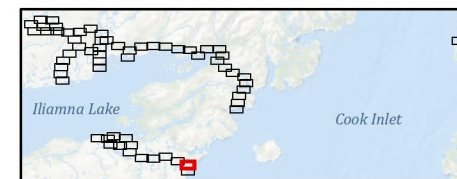
■ Marine (Subtidal)

■ Ponds

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

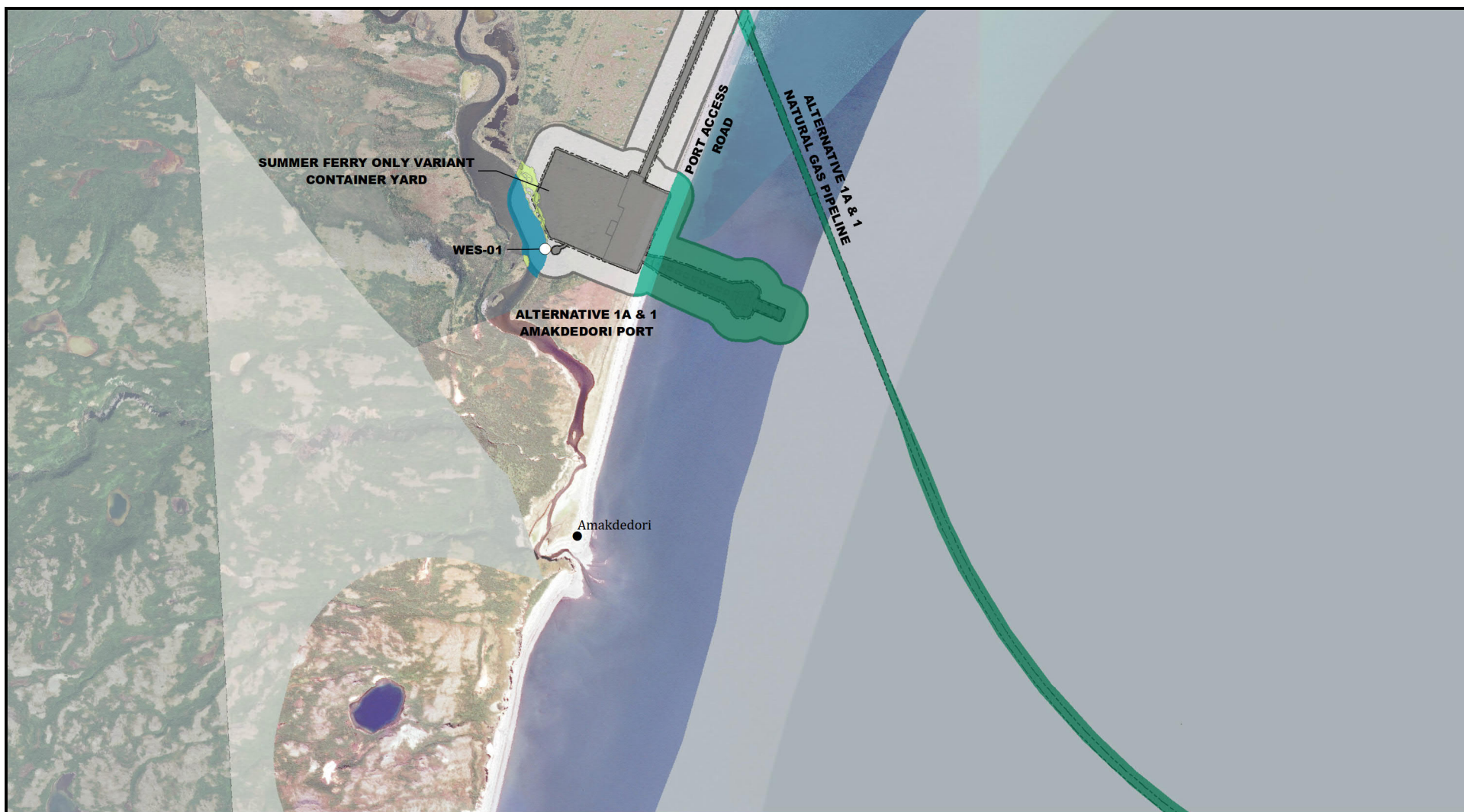
■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

FIGURE K4.22-27 of 62

PEBBLE PROJECT EIS



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Herbaceous

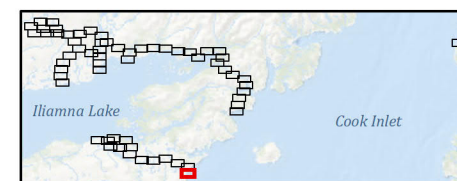
■ Broad Leaved Deciduous Shrubs

■ Marine (Intertidal)

■ Marine (Subtidal)

■ Rivers/Streams (Perennial)

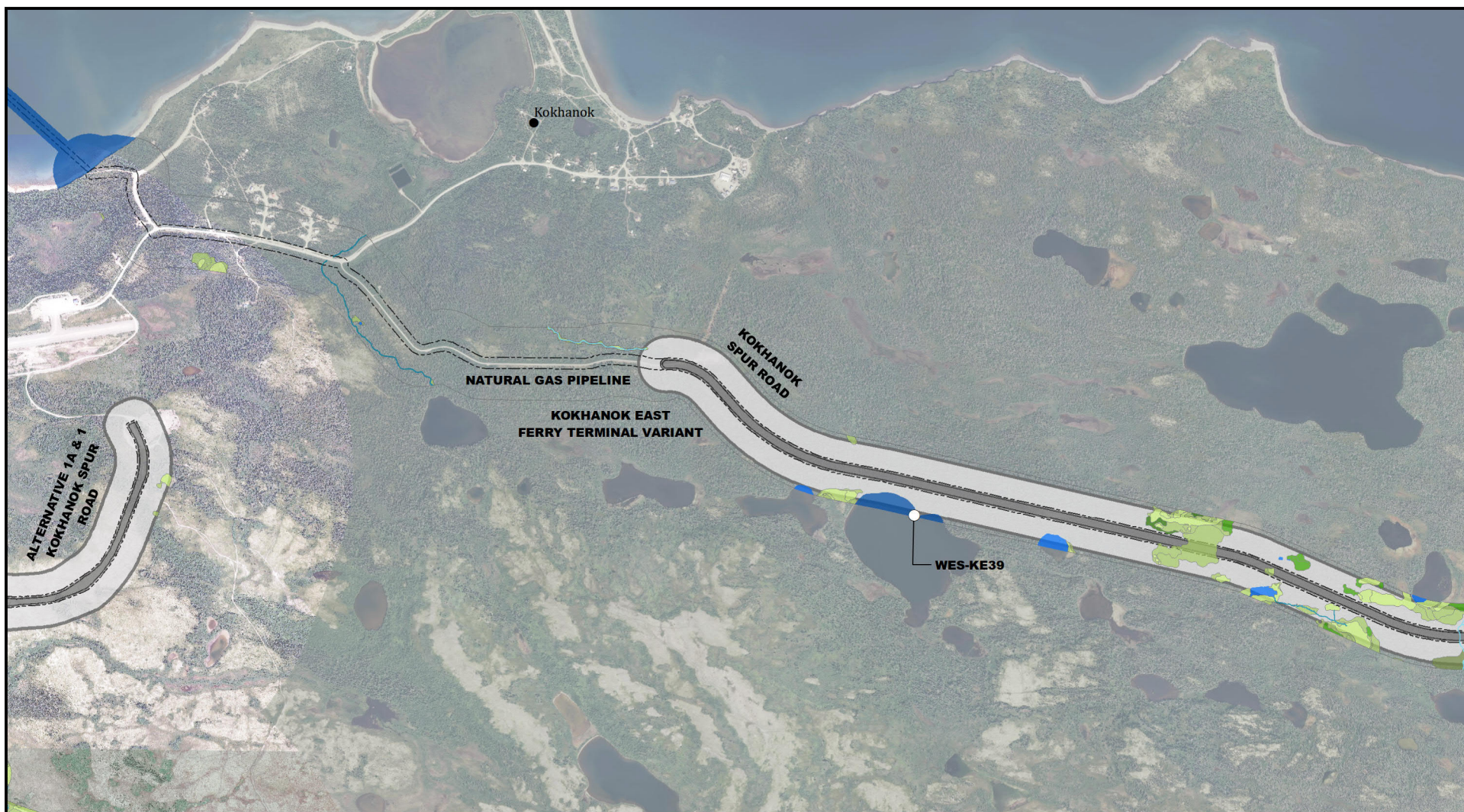
■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-28 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

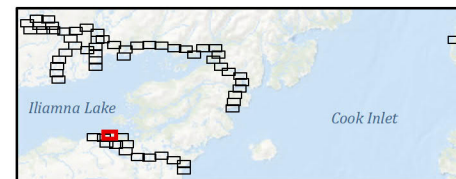
Indirect Impact

- Fugitive Dust

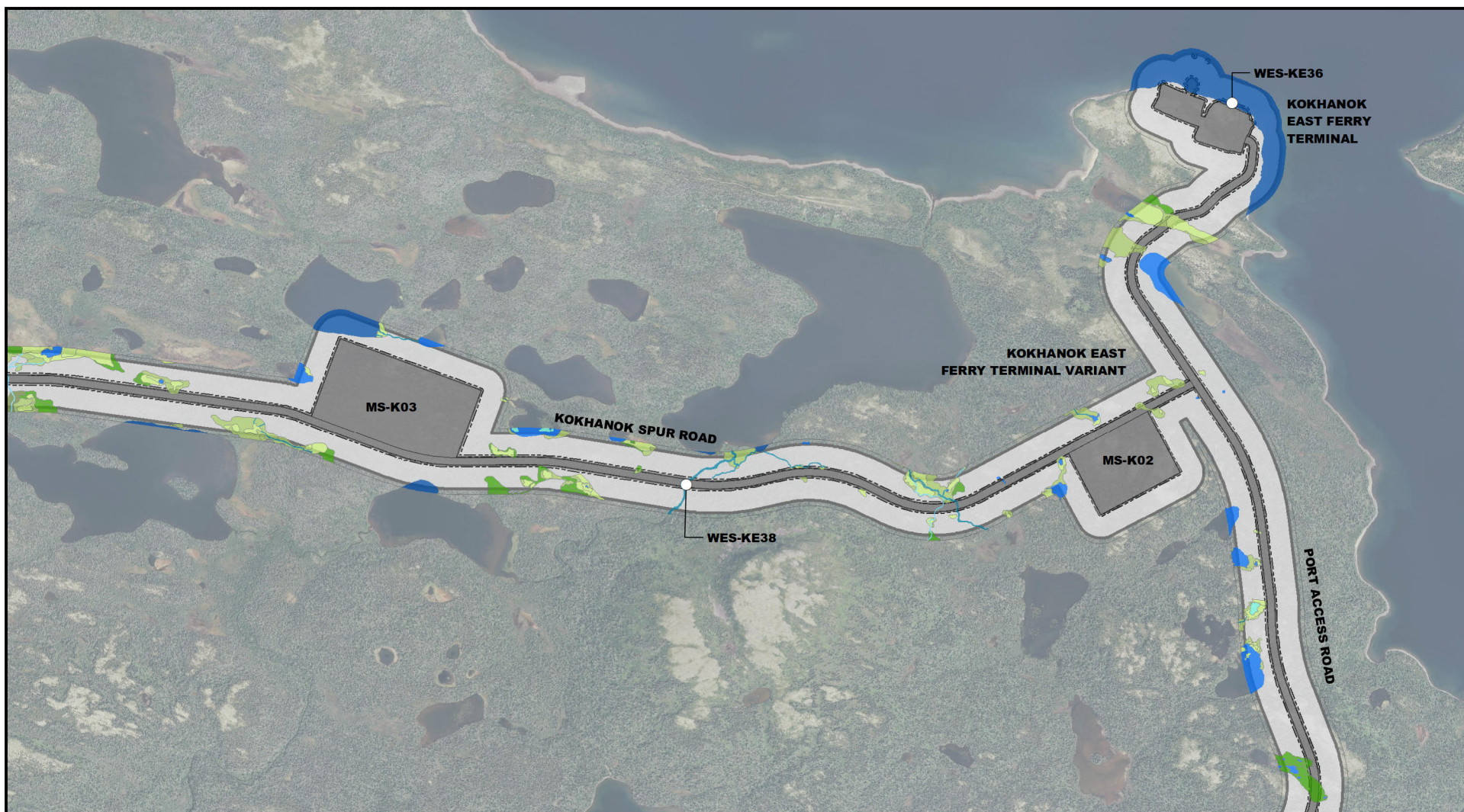
NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

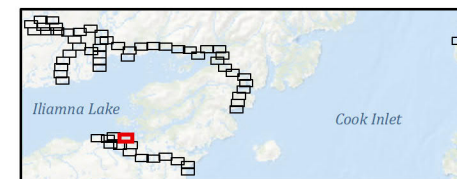
Indirect Impact

- Fugitive Dust

NWI Classes

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Evergreen Shrubs
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

○ Water Extraction Site

Direct Impact

■ Permanent

□ Temporary

Indirect Impact

■ Fugitive Dust

NWI Classes

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Deciduous Forest

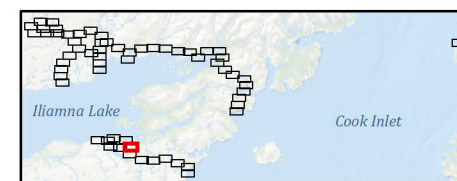
■ Evergreen Shrubs

■ Ponds

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

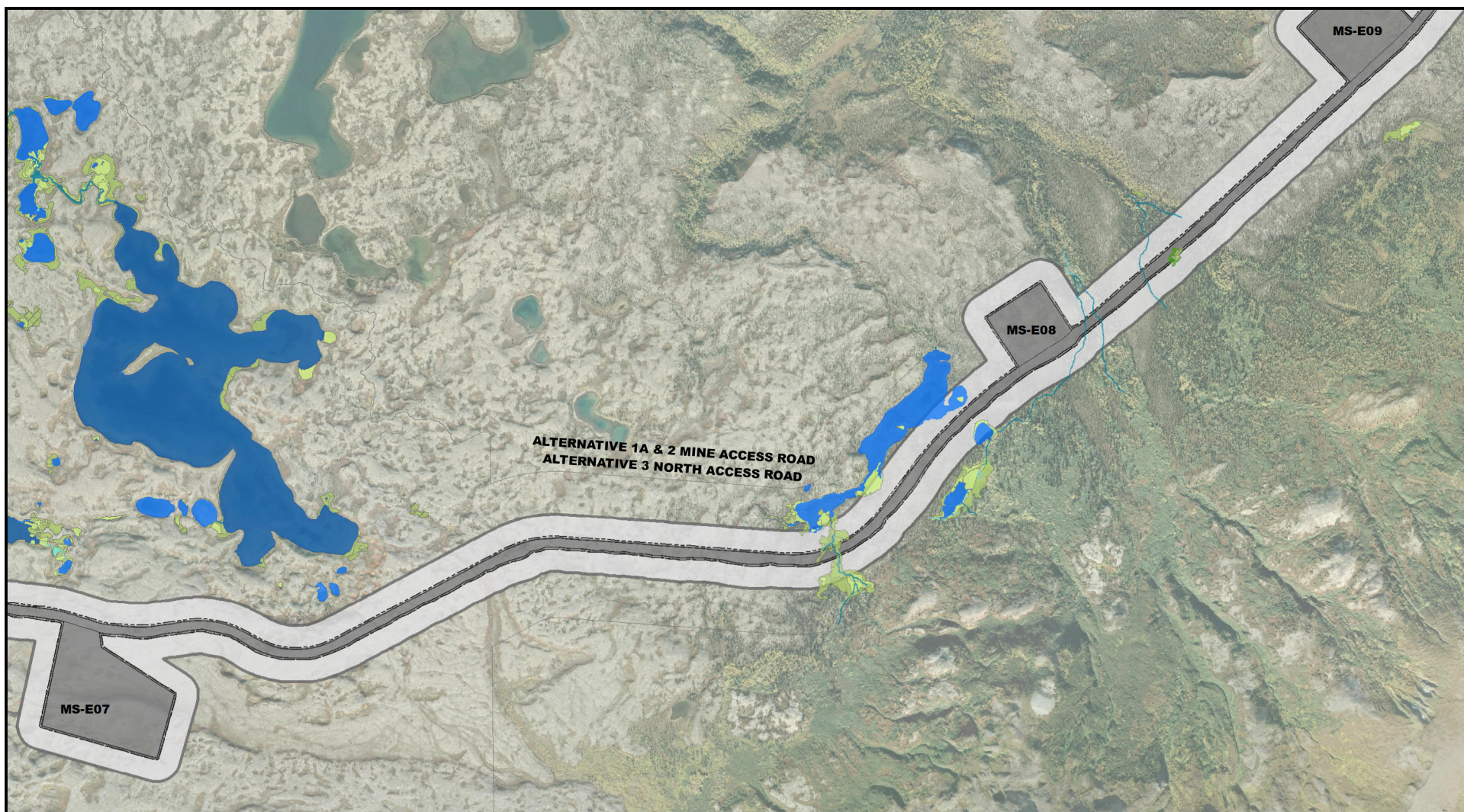
■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-31 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

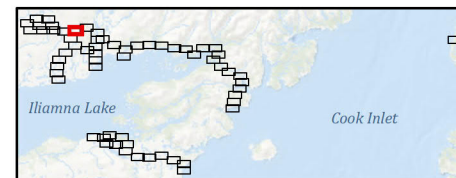
Indirect Impact

- Fugitive Dust

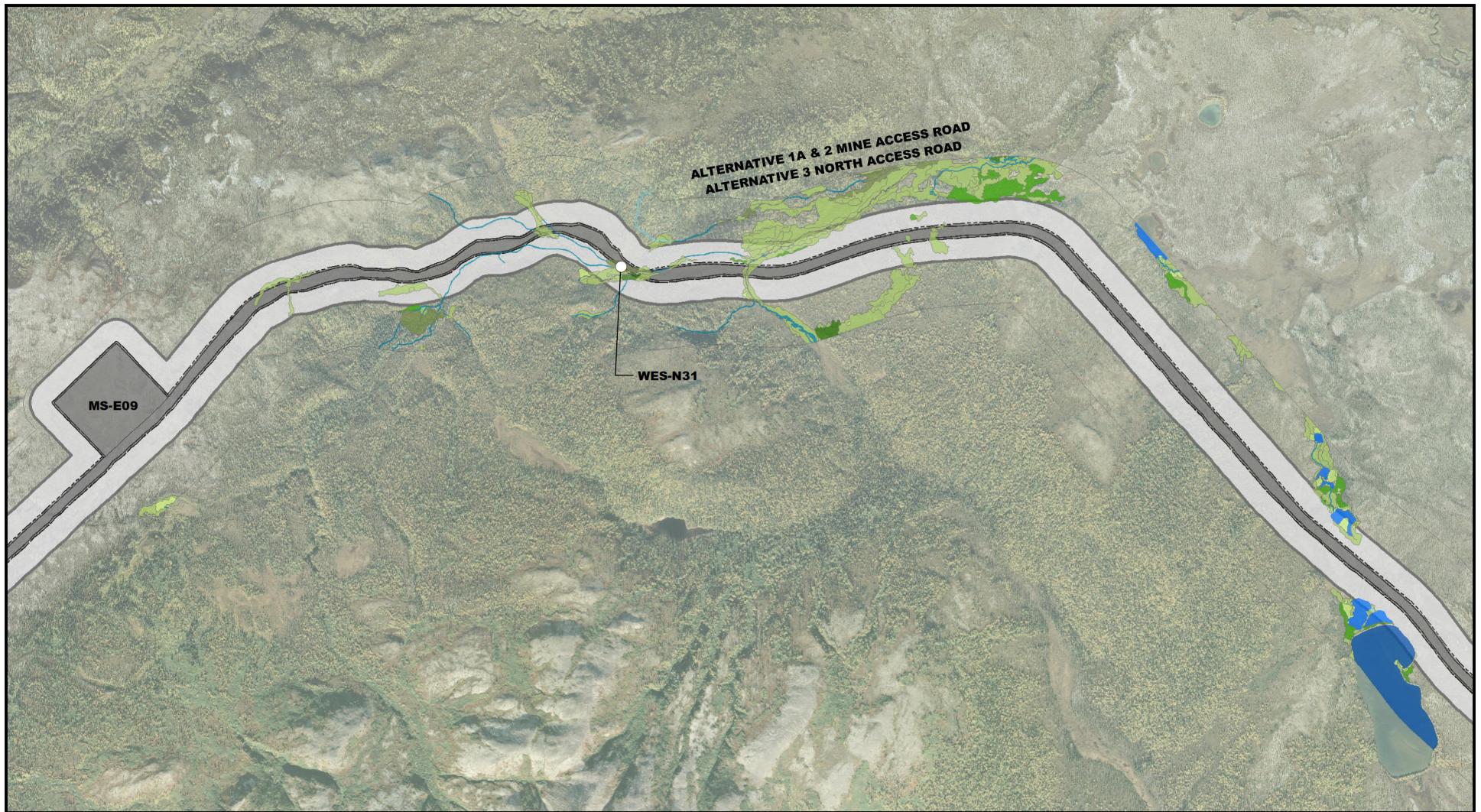
NWI Classes

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

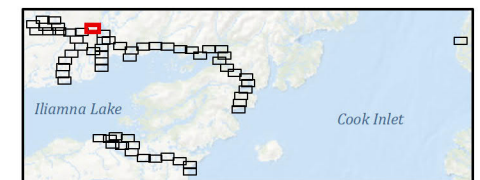
Indirect Impact

- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

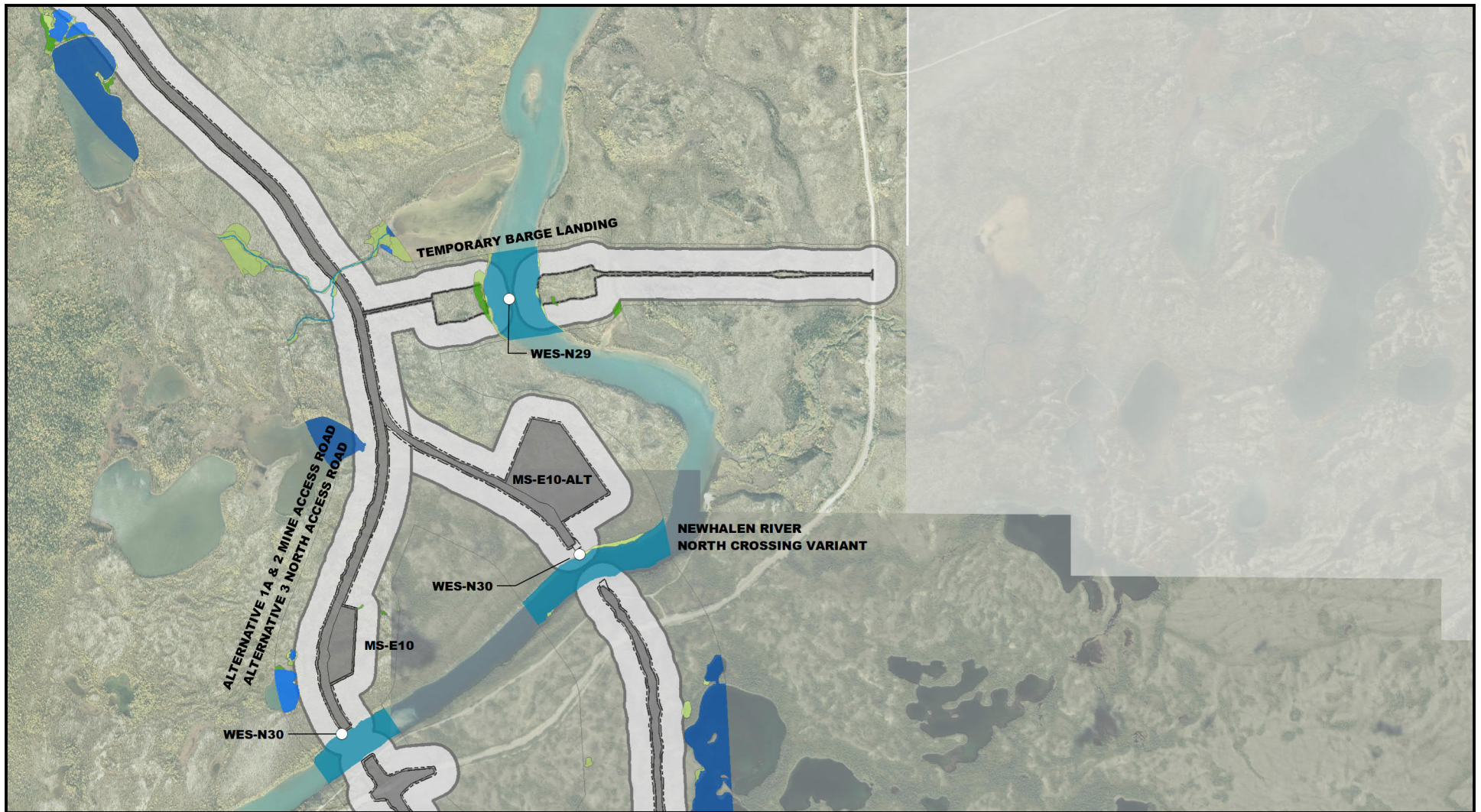
- Evergreen Forest
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-33 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

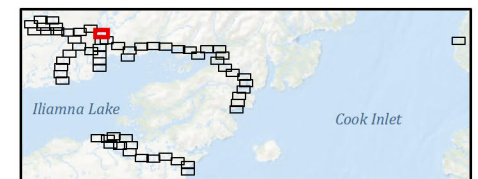
Indirect Impact

- Fugitive Dust

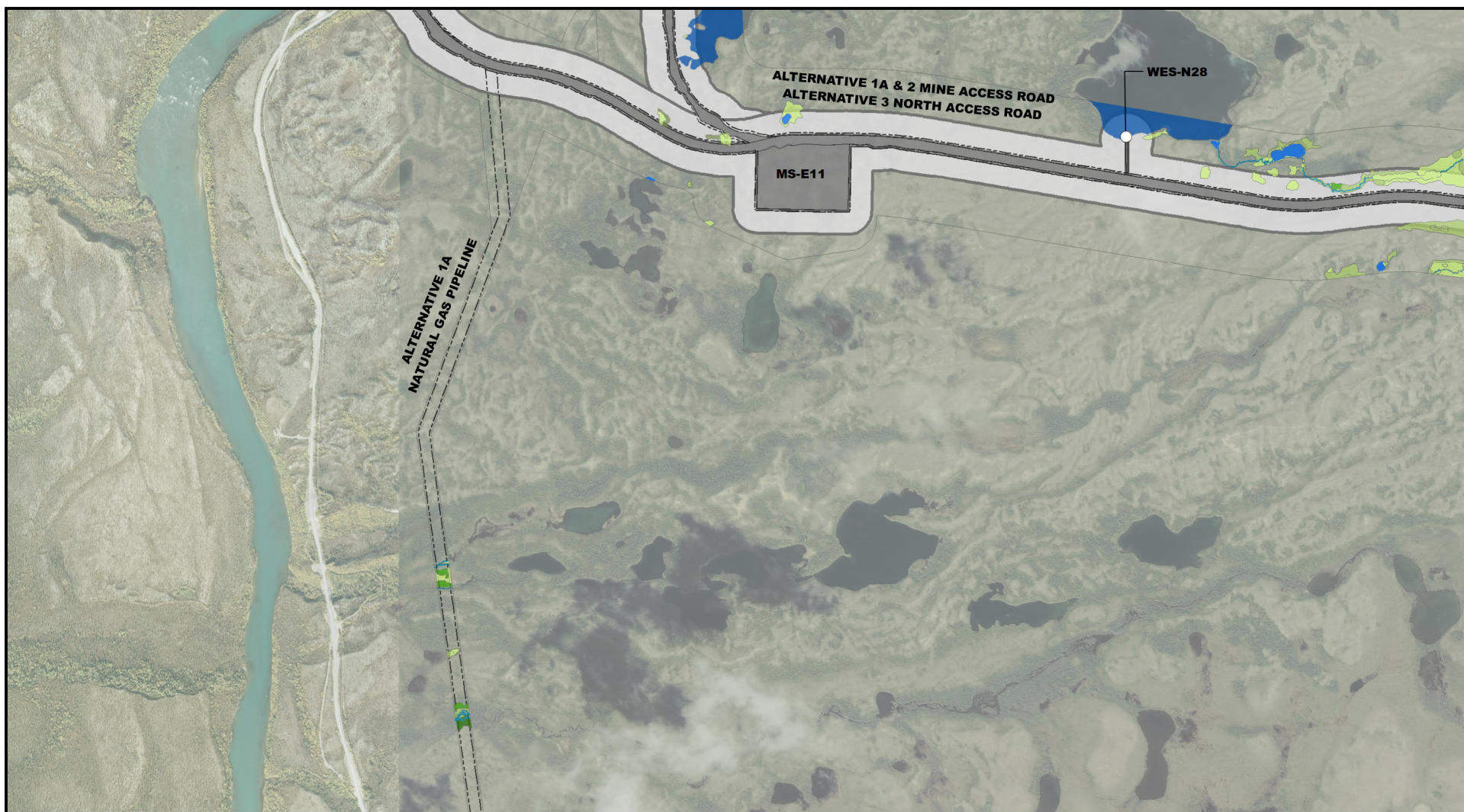
NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

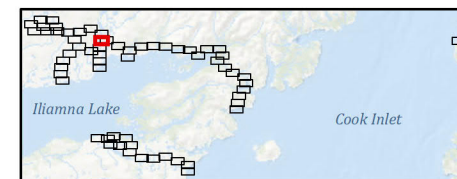
Indirect Impact

- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest
- Ponds
- Lakes
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

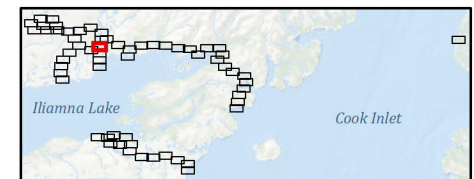
- Fugitive Dust

NWI Classes

- Broad Leaved Deciduous Shrubs

- Evergreen Shrubs

- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-36 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

- Fugitive Dust

NWI Classes

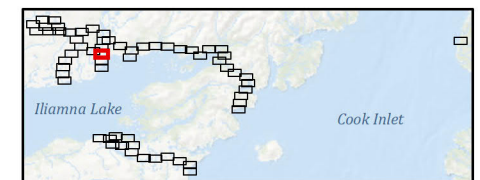
- Herbaceous
- Broad Leaved Deciduous Shrubs

Evergreen Shrubs

Ponds

Rivers/Streams (Perennial)

Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-37 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

- Fugitive Dust

NWI Classes

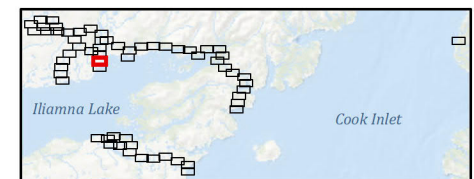
- Herbaceous
- Broad Leaved Deciduous Shrubs

Evergreen Shrubs

Ponds

Rivers/Streams (Perennial)

Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-38 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

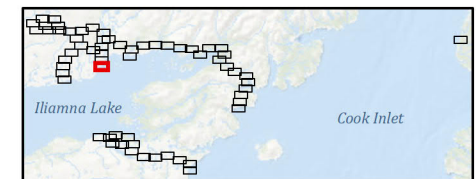
- Fugitive Dust

NWI Classes

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs

- Evergreen Shrubs

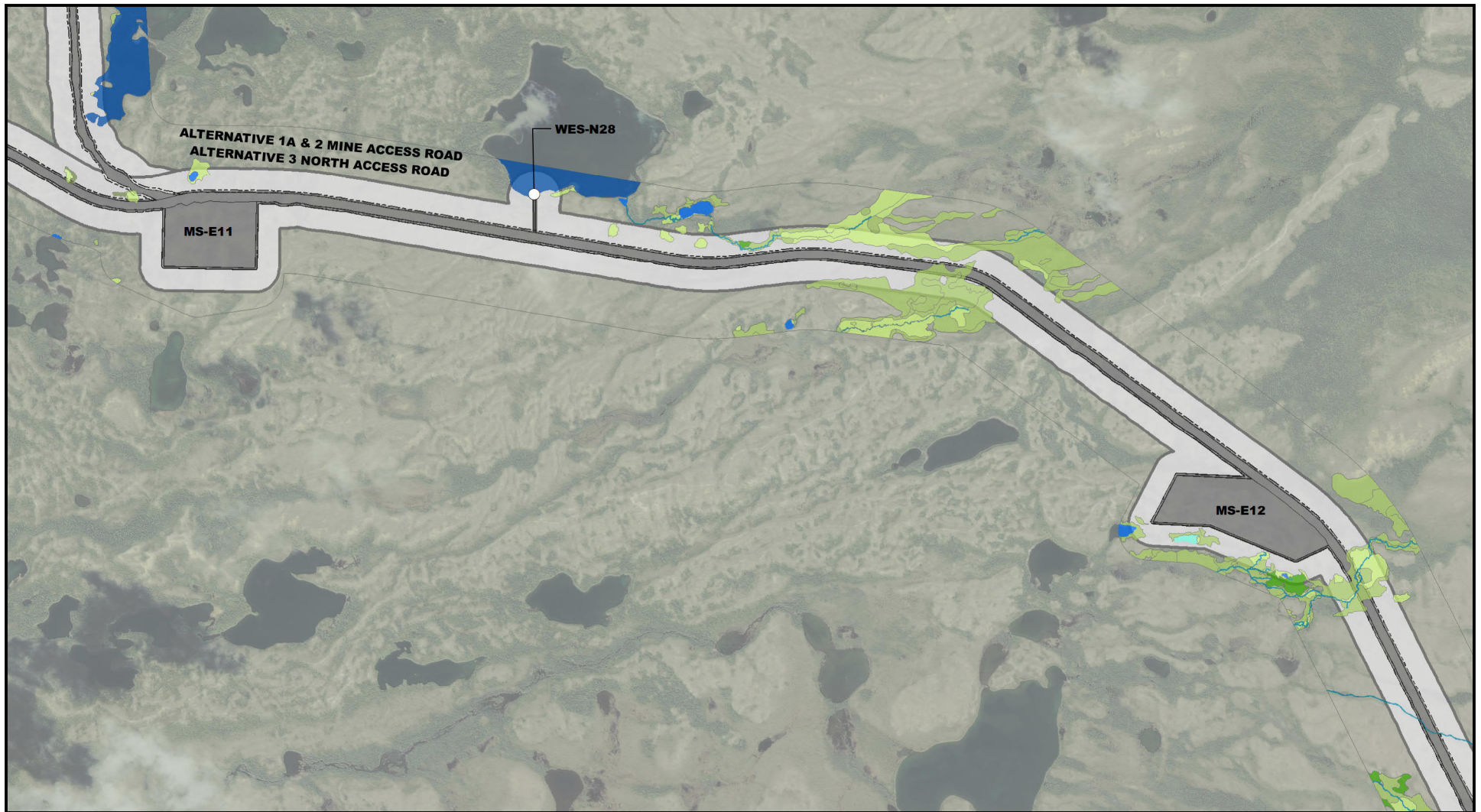
- Lakes
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-39 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

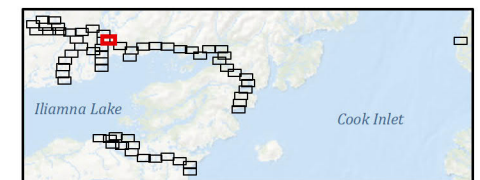
- Fugitive Dust

NWI Classes

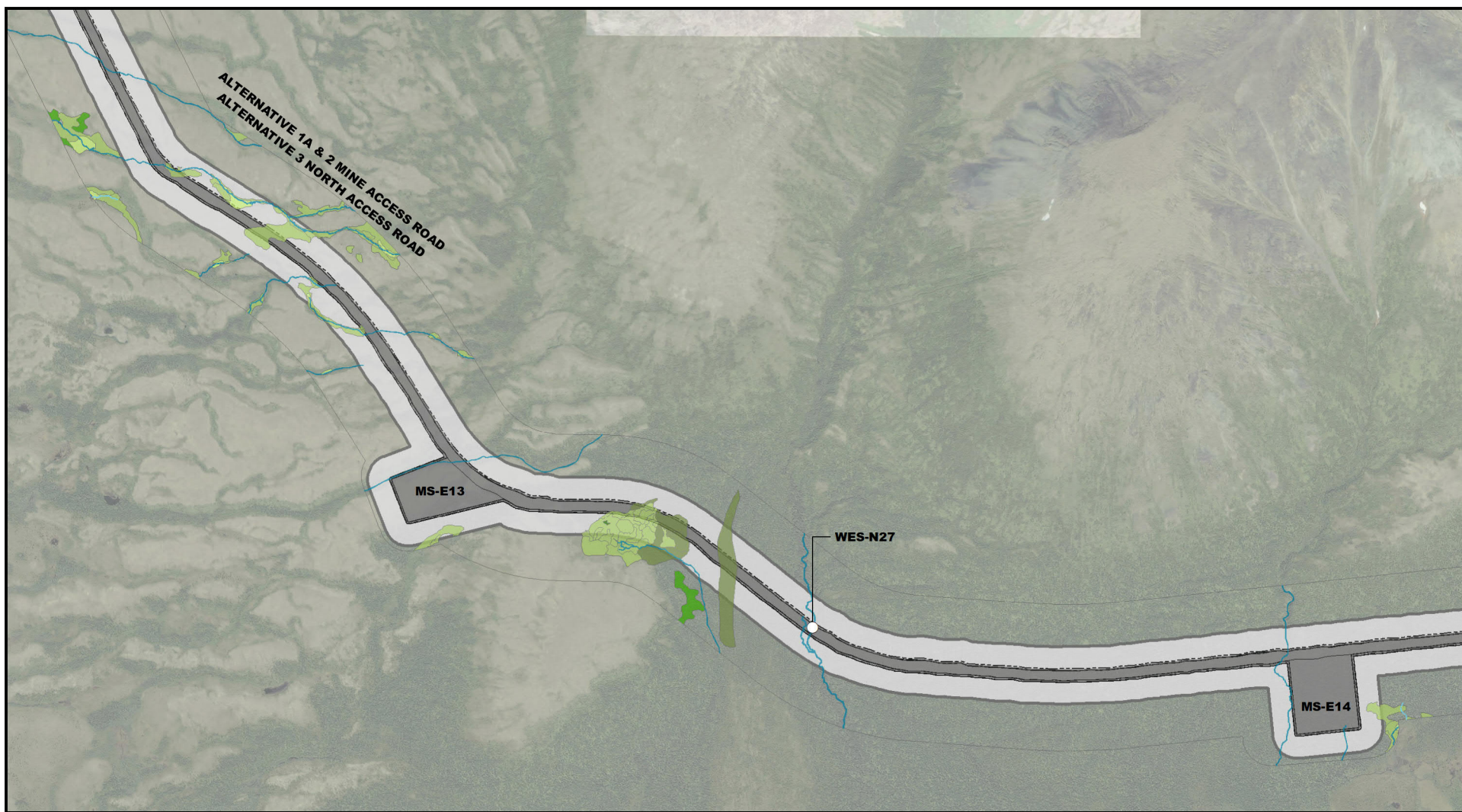
- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Evergreen Shrubs

- Ponds
- Lakes
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

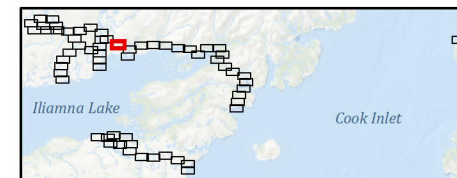
- Fugitive Dust

NWI Classes

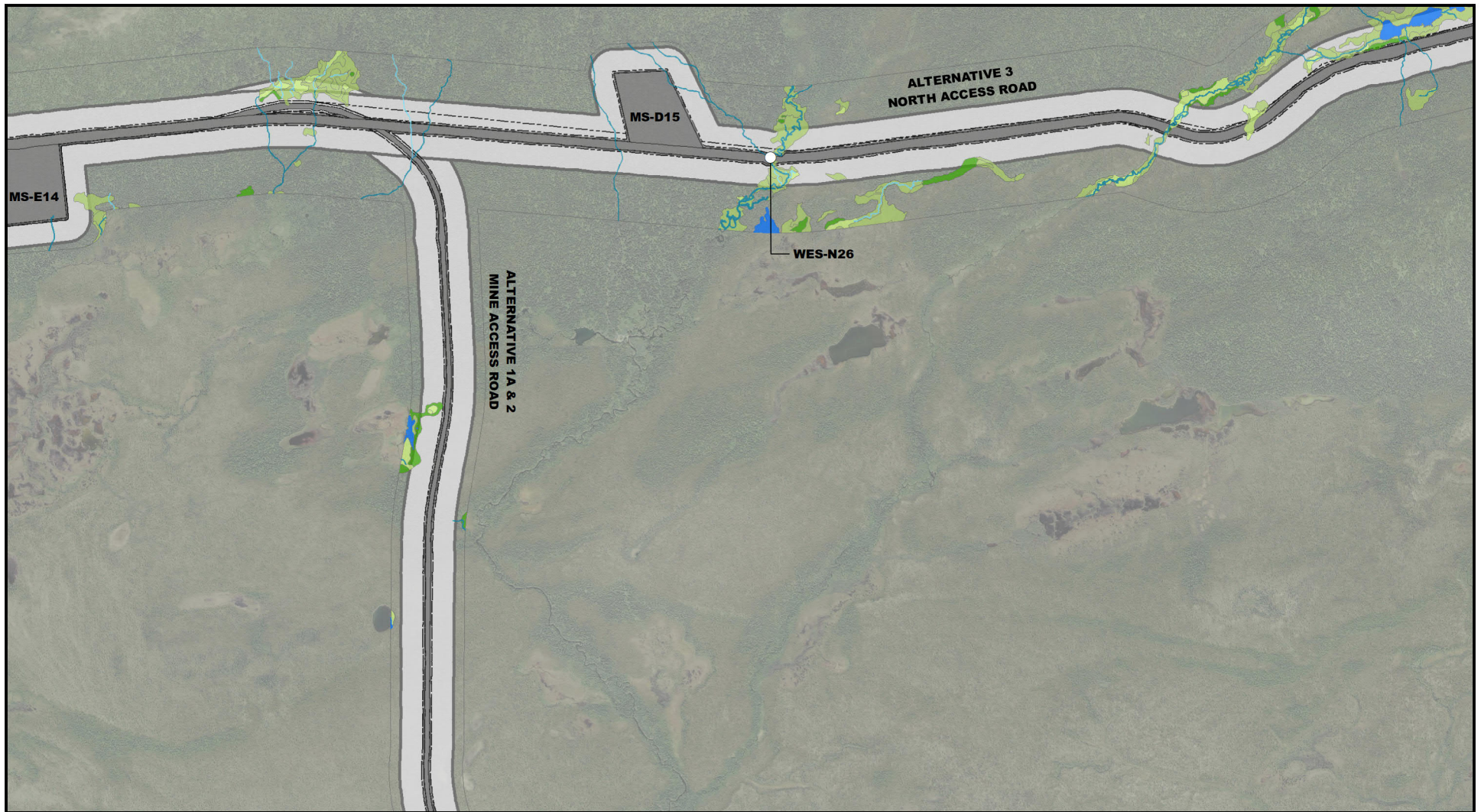
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

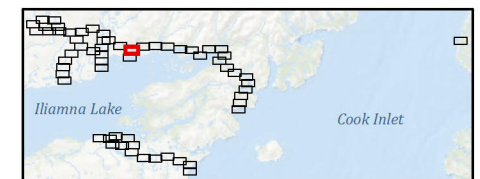
- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Evergreen Forest

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-42 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

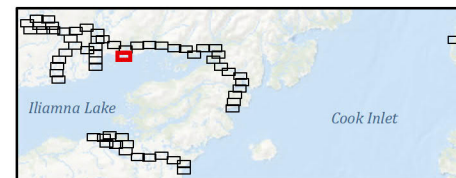
Indirect Impact

- Fugitive Dust

NWI Classes

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs

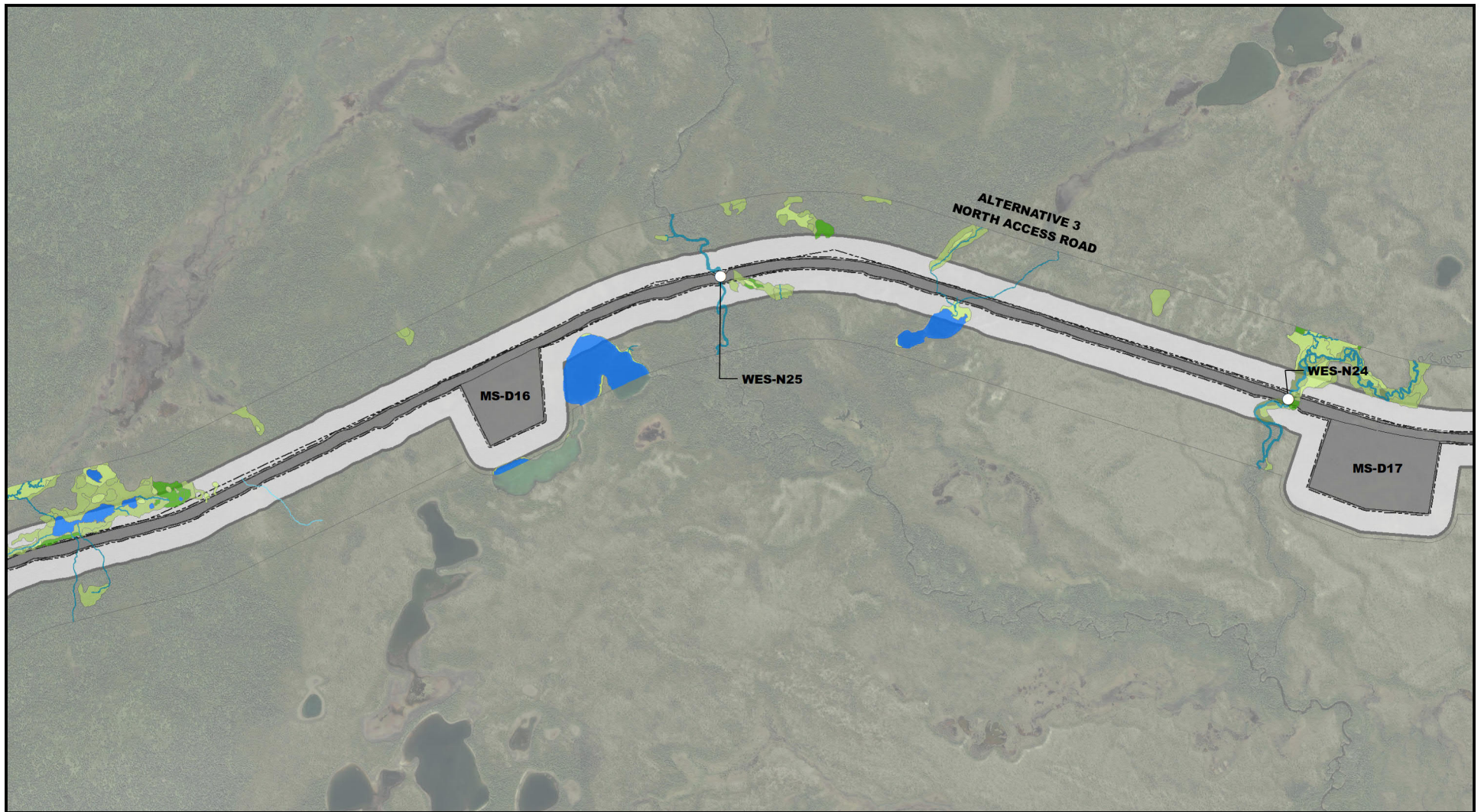
- Evergreen Shrubs
- Ponds
- Lakes
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-43 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

Permanent

Temporary

Indirect Impact

Fugitive Dust

NWI Classes

Herbaceous

Broad Leaved Deciduous Shrubs

Deciduous Forest

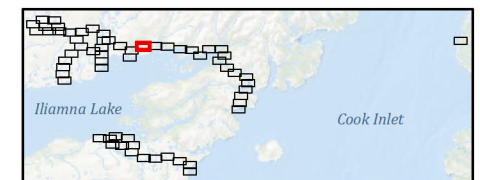
Evergreen Shrubs

Ponds

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

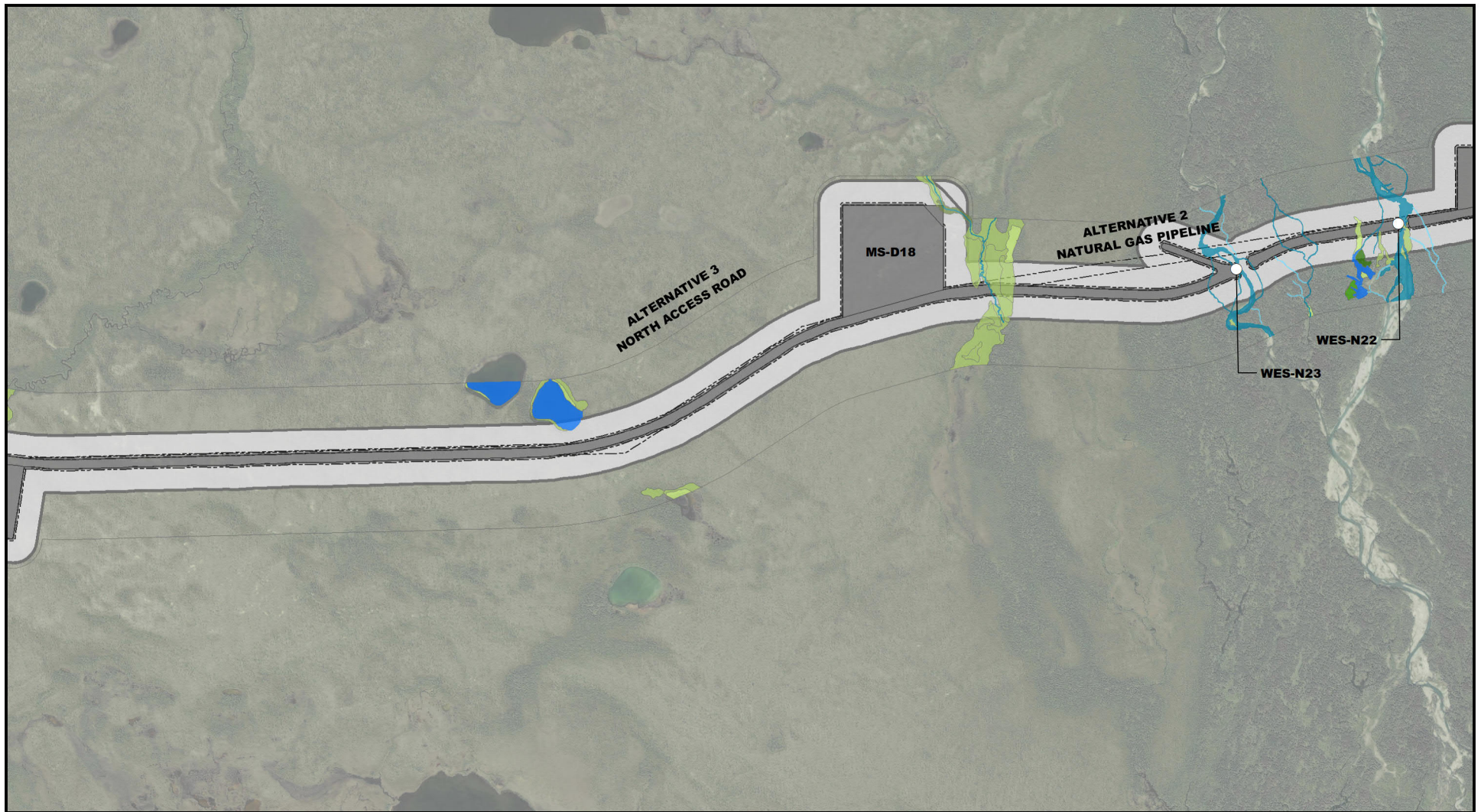
Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-44 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

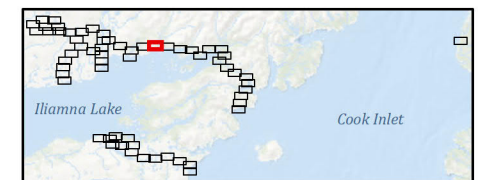
- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest

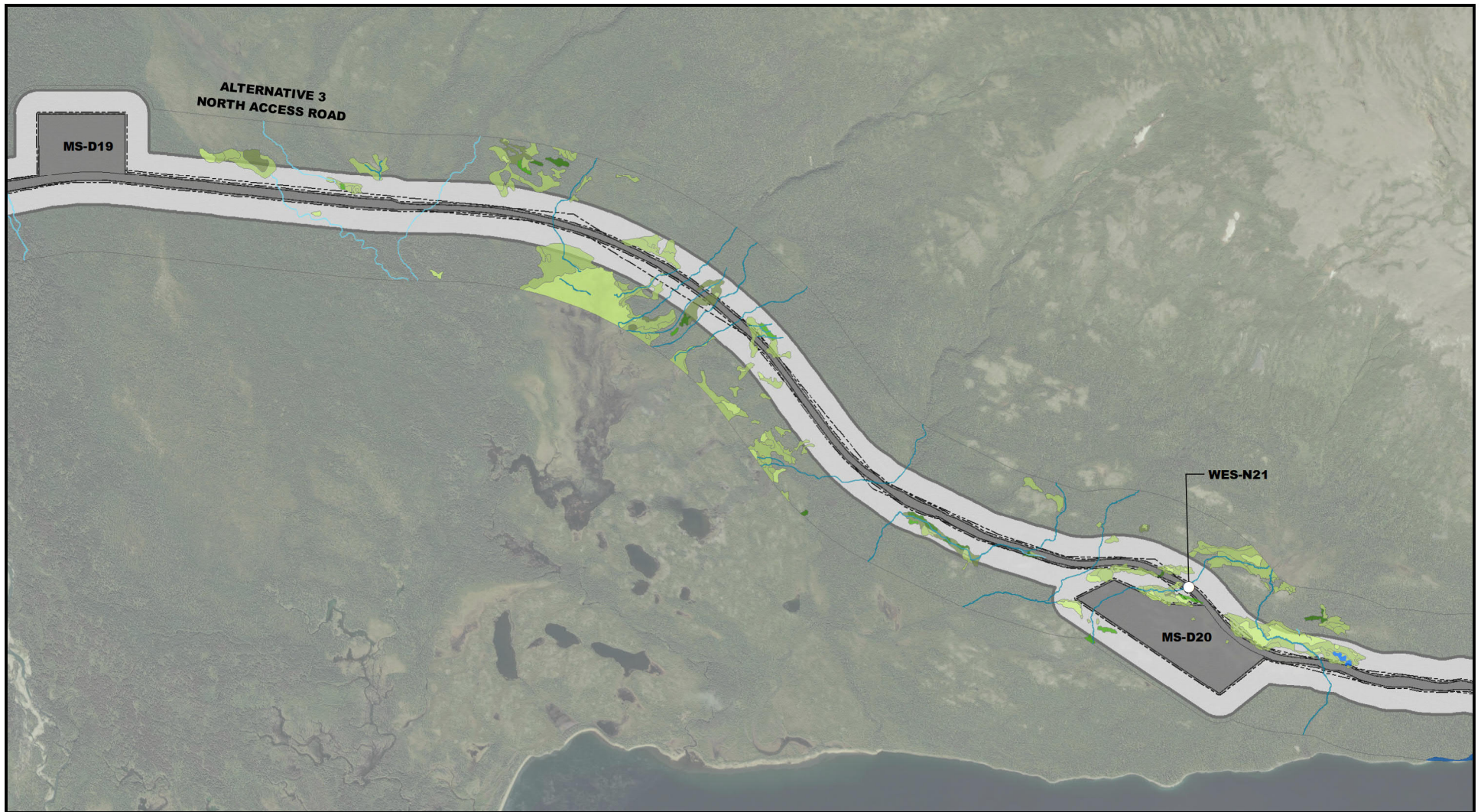
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-45 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000



Feet

Direct Impact

- Permanent
- Temporary

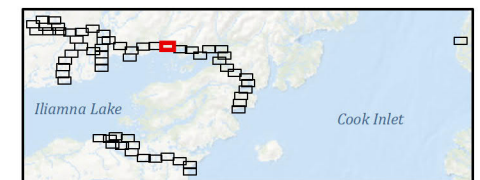
Indirect Impact

- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

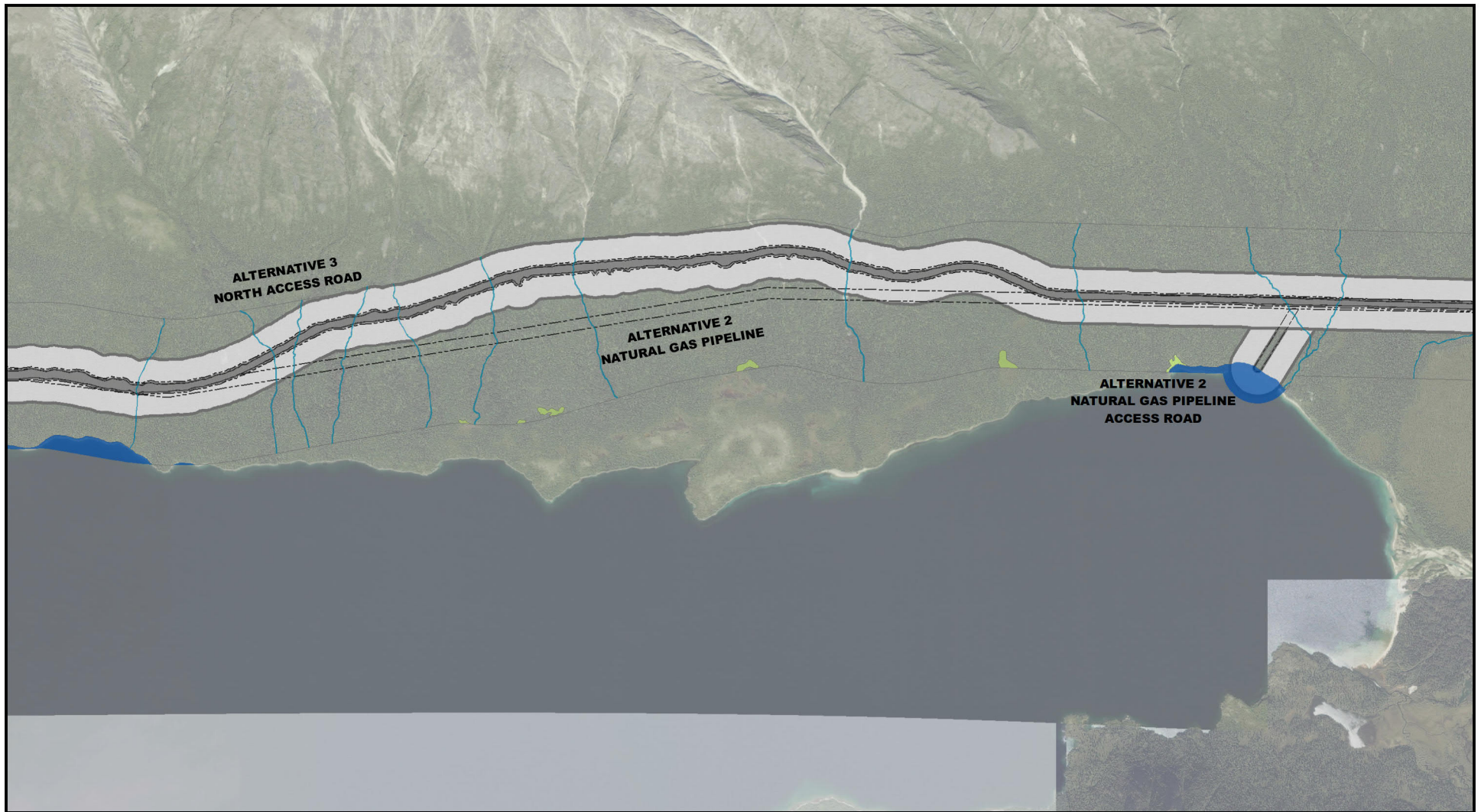
- Evergreen Forest
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-46 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

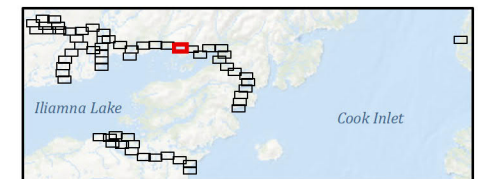
Indirect Impact

- Fugitive Dust

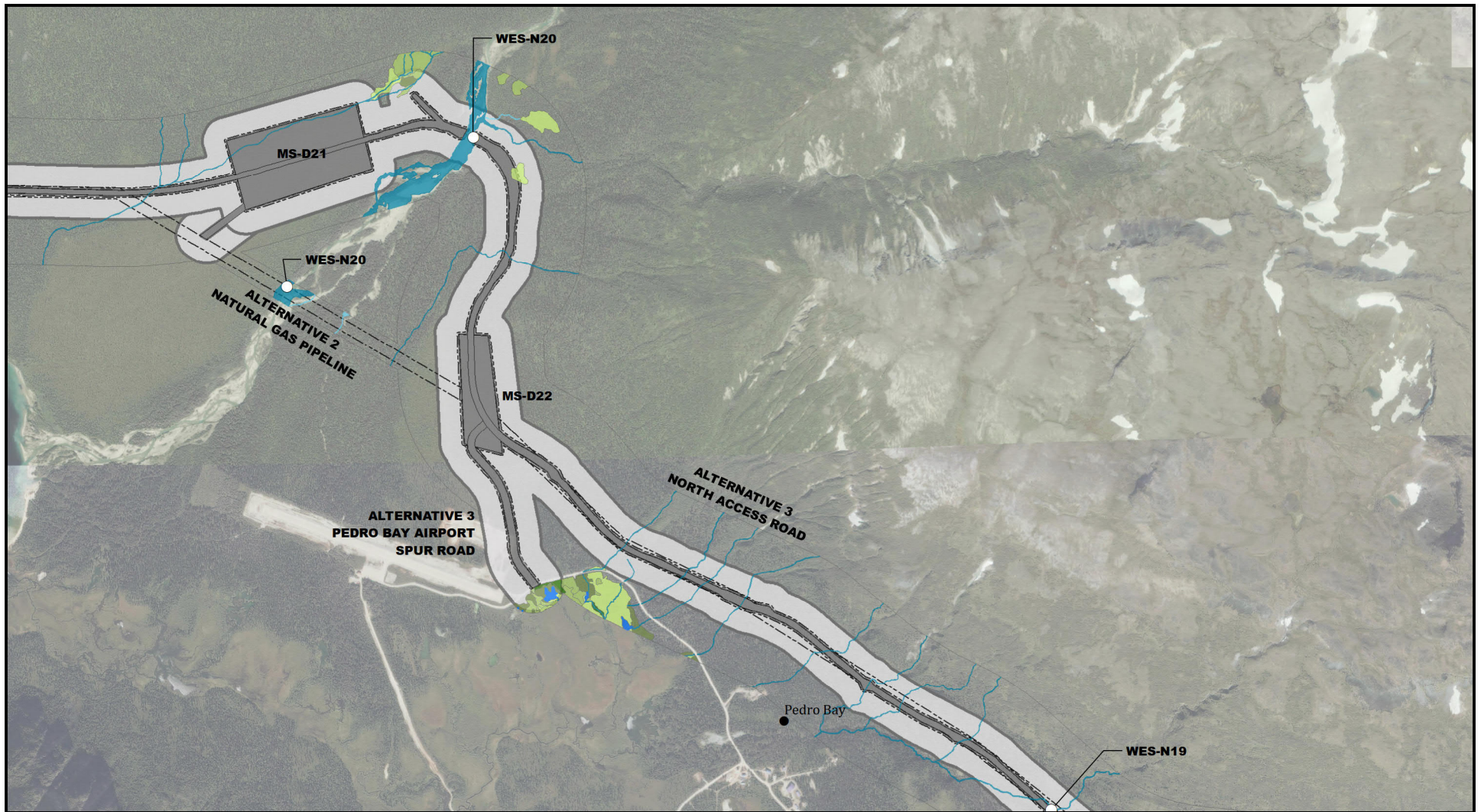
NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs

- Lakes
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

Permanent

Temporary

Indirect Impact

Fugitive Dust

NWI Classes

Herbaceous

Broad Leaved Deciduous Shrubs

Deciduous Forest

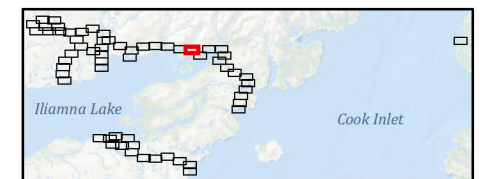
Evergreen Forest

Ponds

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

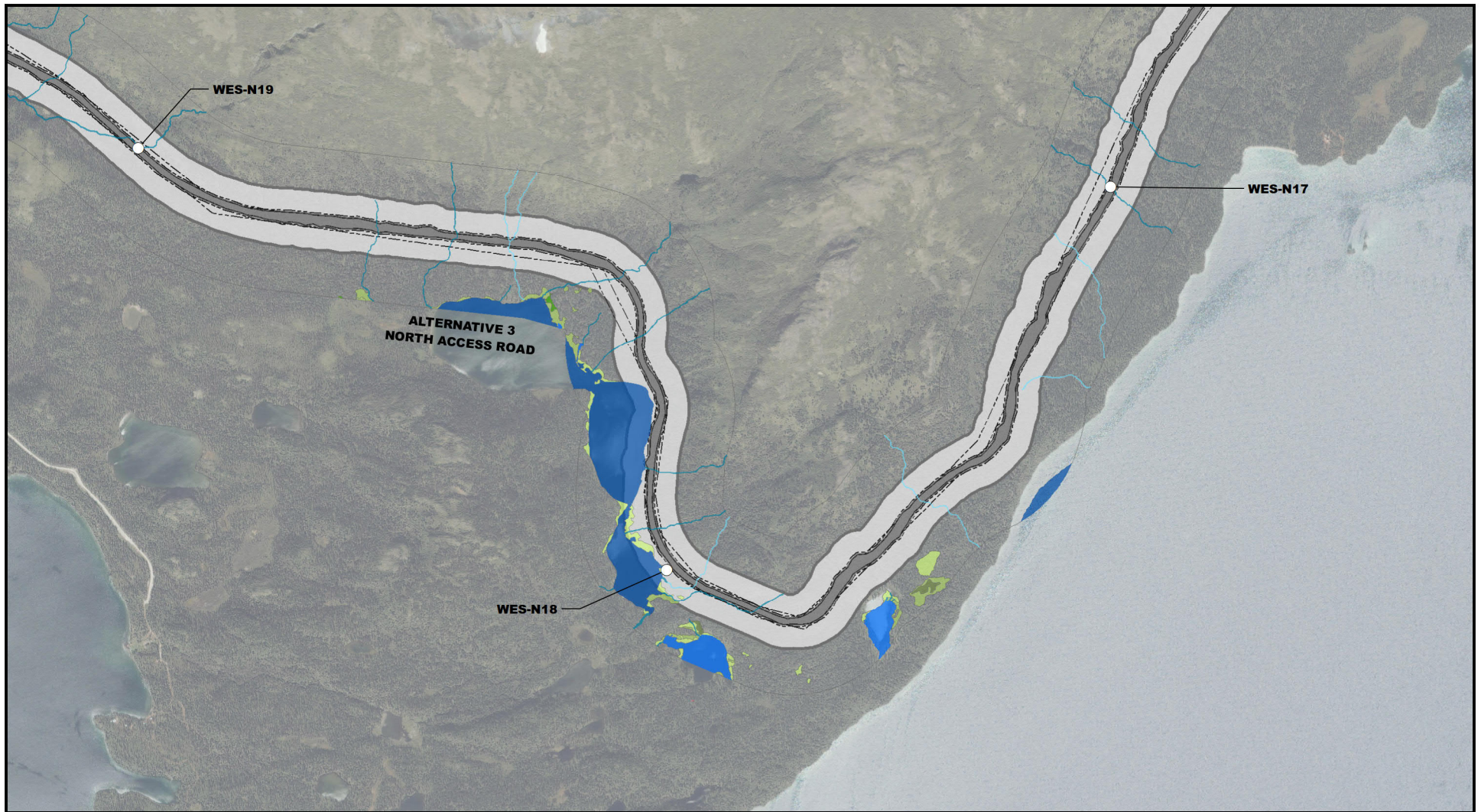
Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-48 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

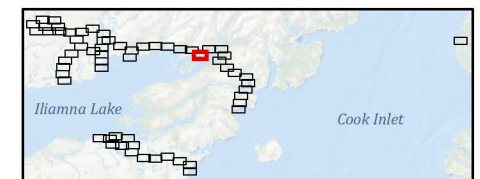
Indirect Impact

- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

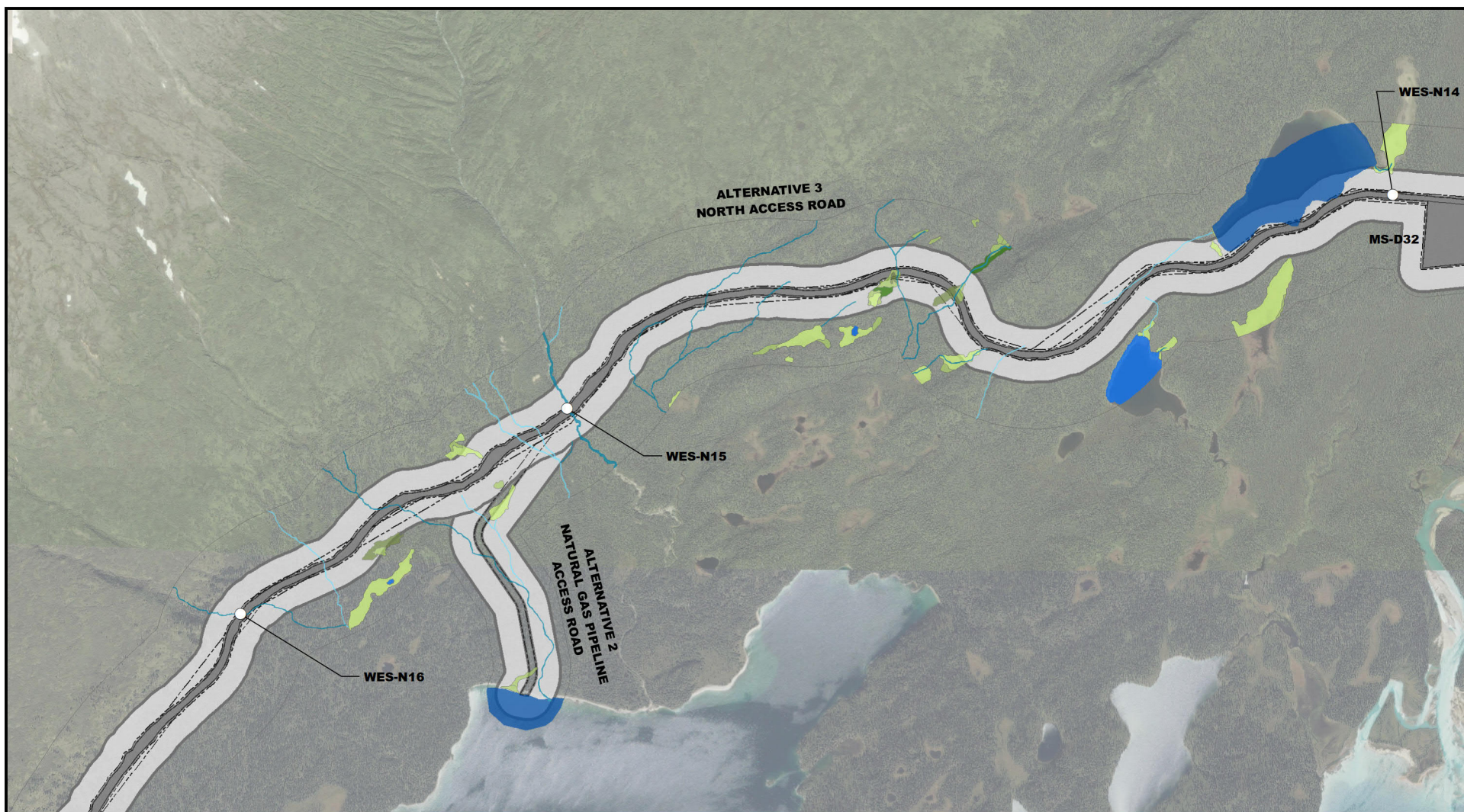
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-49 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

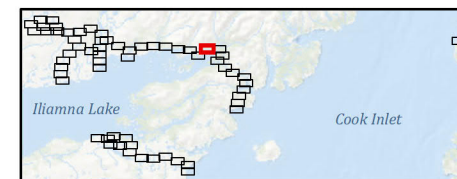
Indirect Impact

- Fugitive Dust

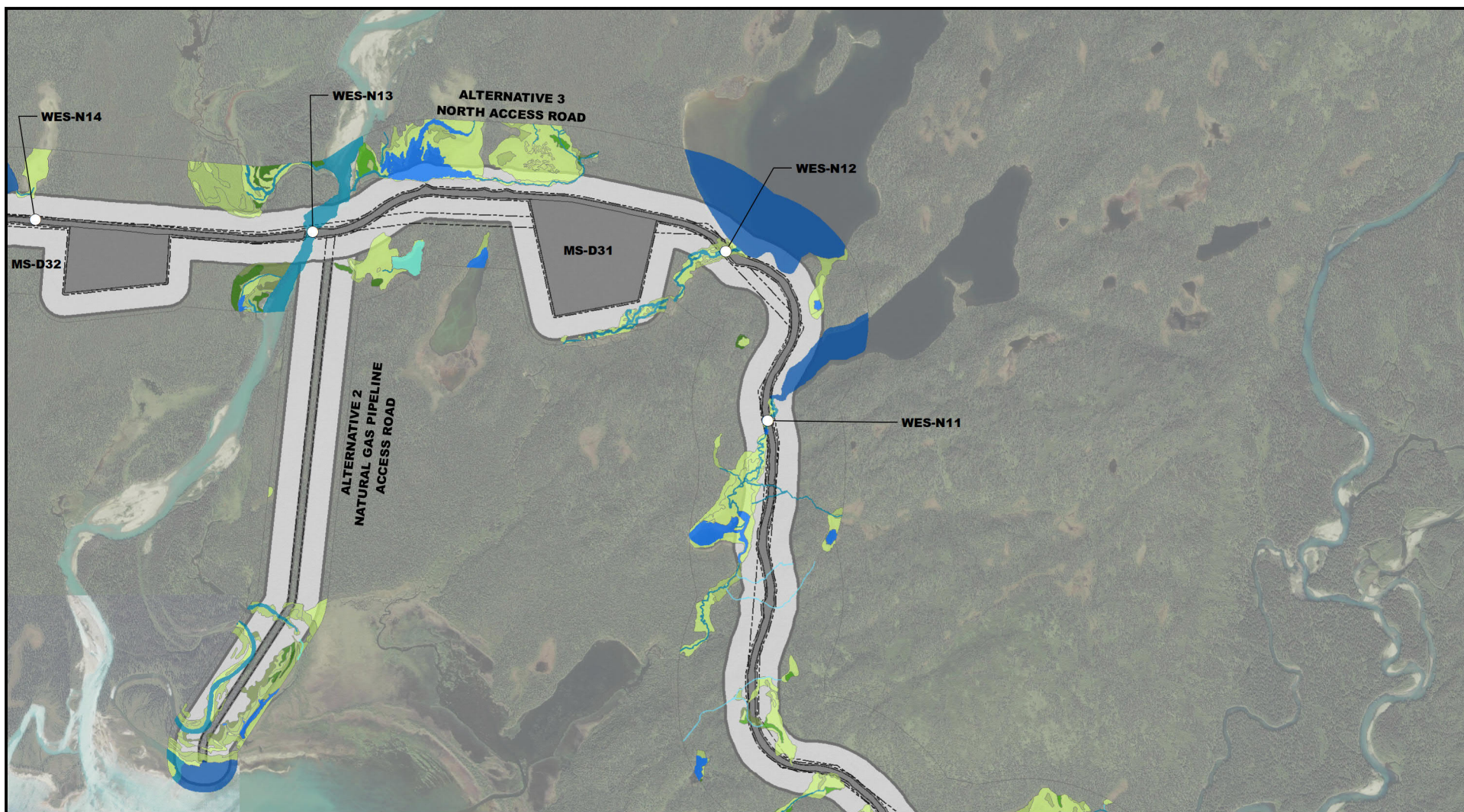
NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Forest

- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

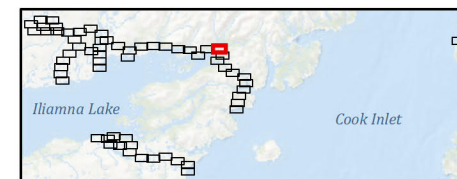
Indirect Impact

- Fugitive Dust

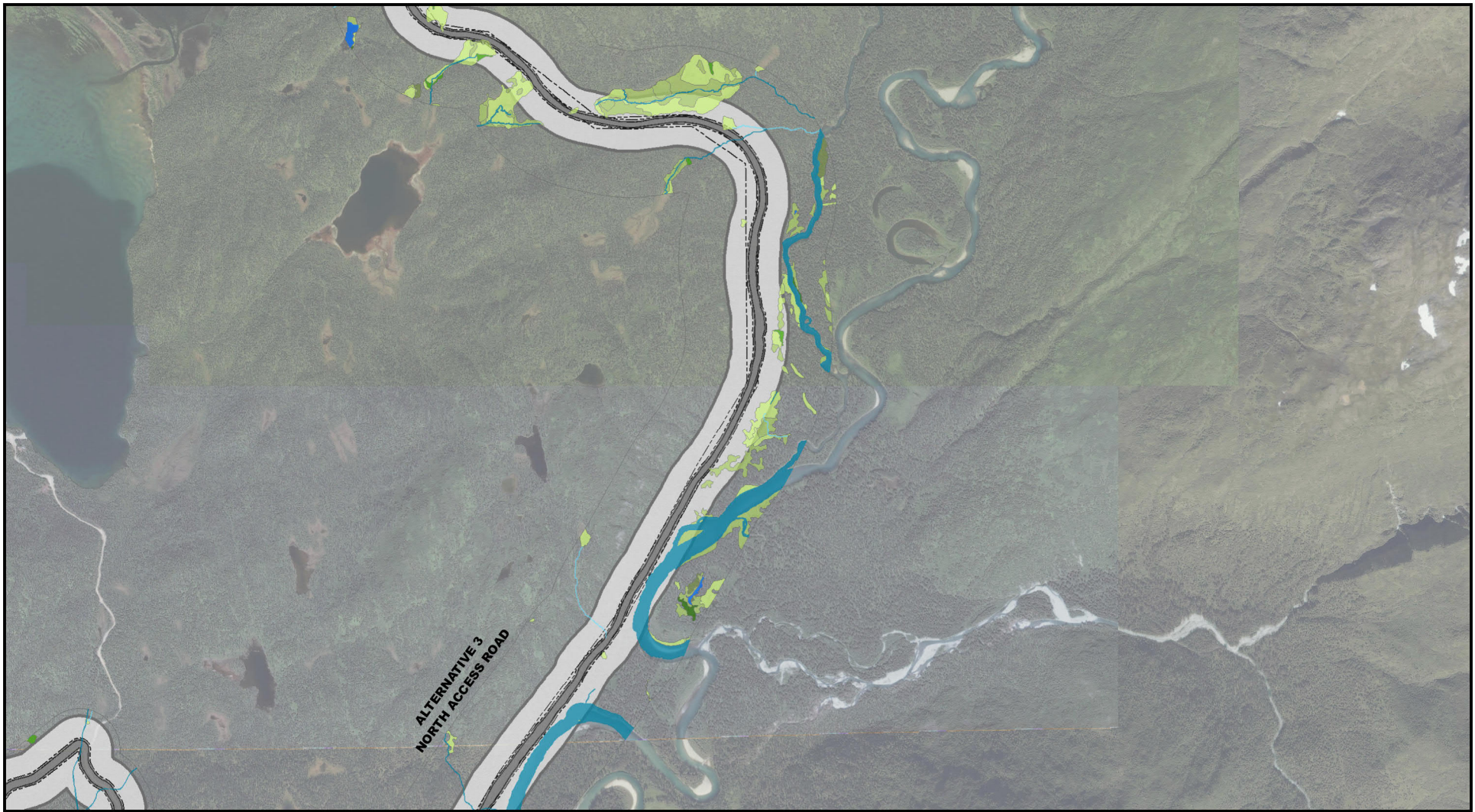
NWI Classes

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

Permanent

Temporary

Indirect Impact

Fugitive Dust

NWI Classes

Herbaceous

Broad Leaved Deciduous Shrubs

Deciduous Forest

Evergreen Shrubs

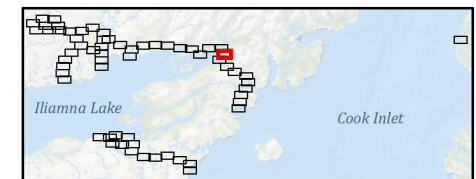
Evergreen Forest

Ponds

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

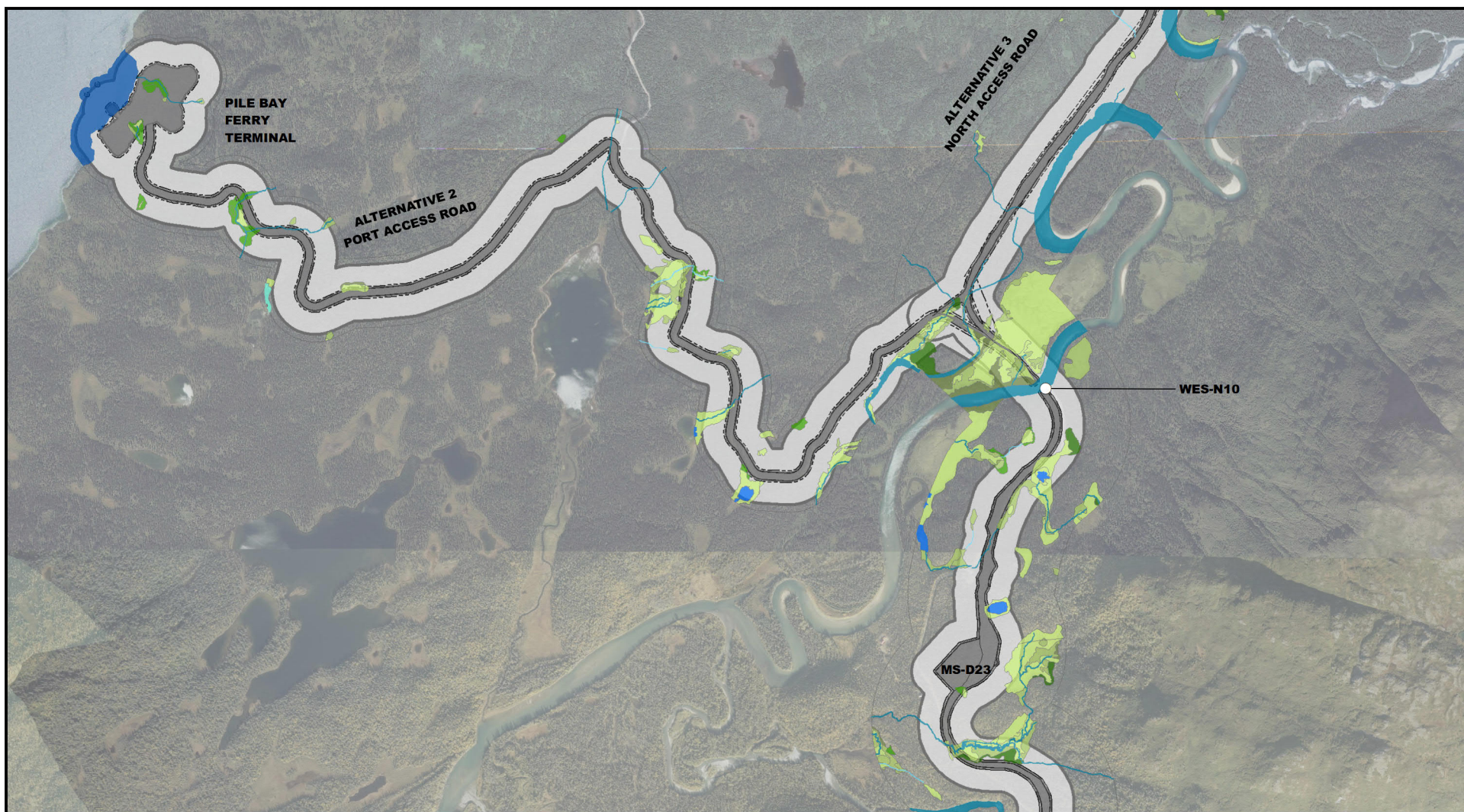
Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-52 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

Indirect Impact

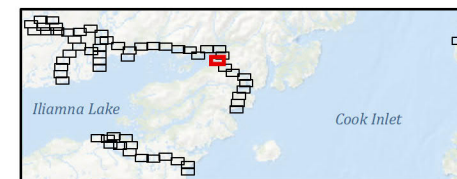
- Fugitive Dust

NWI Classes

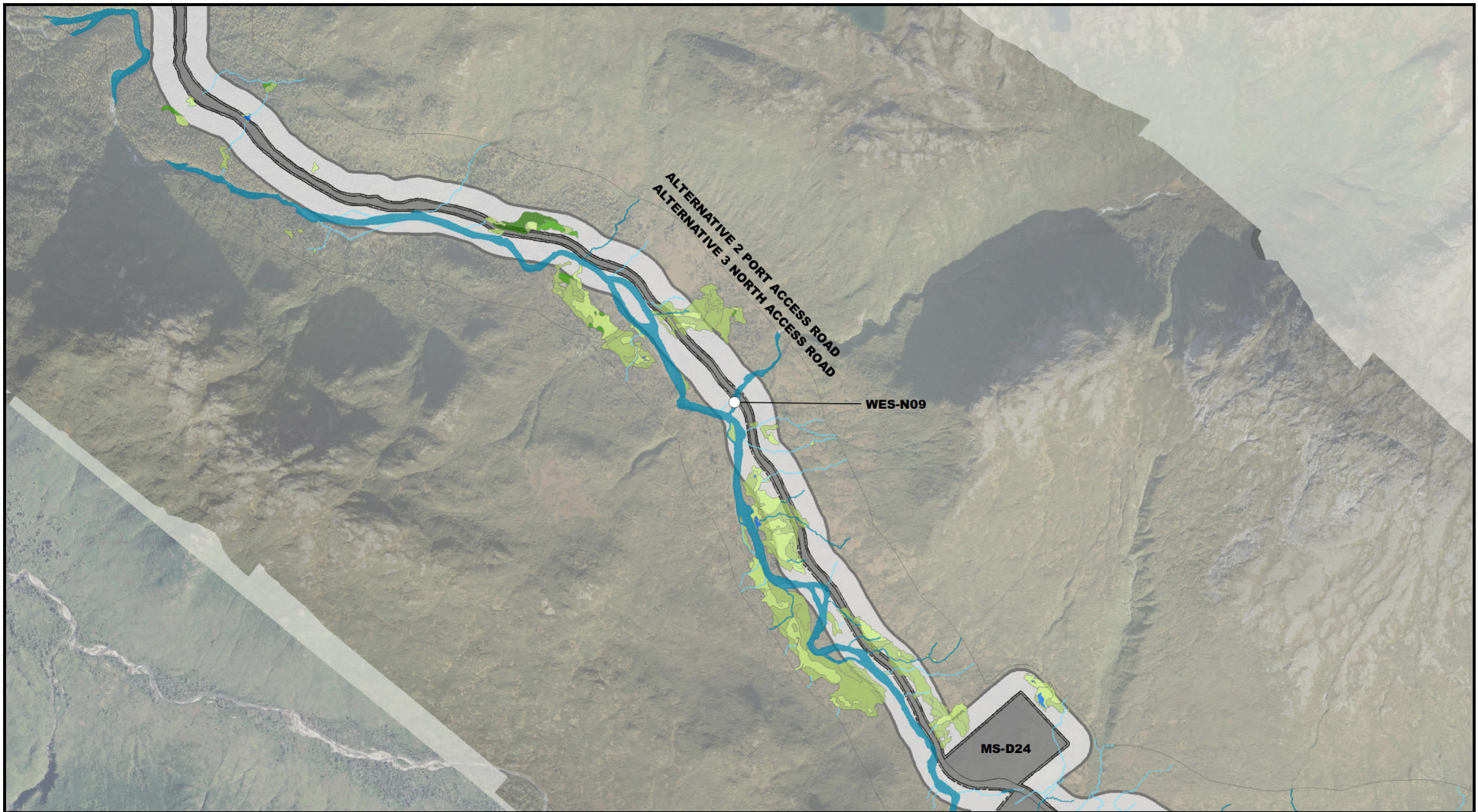
- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest

- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

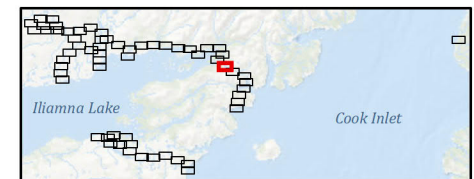
Indirect Impact

- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

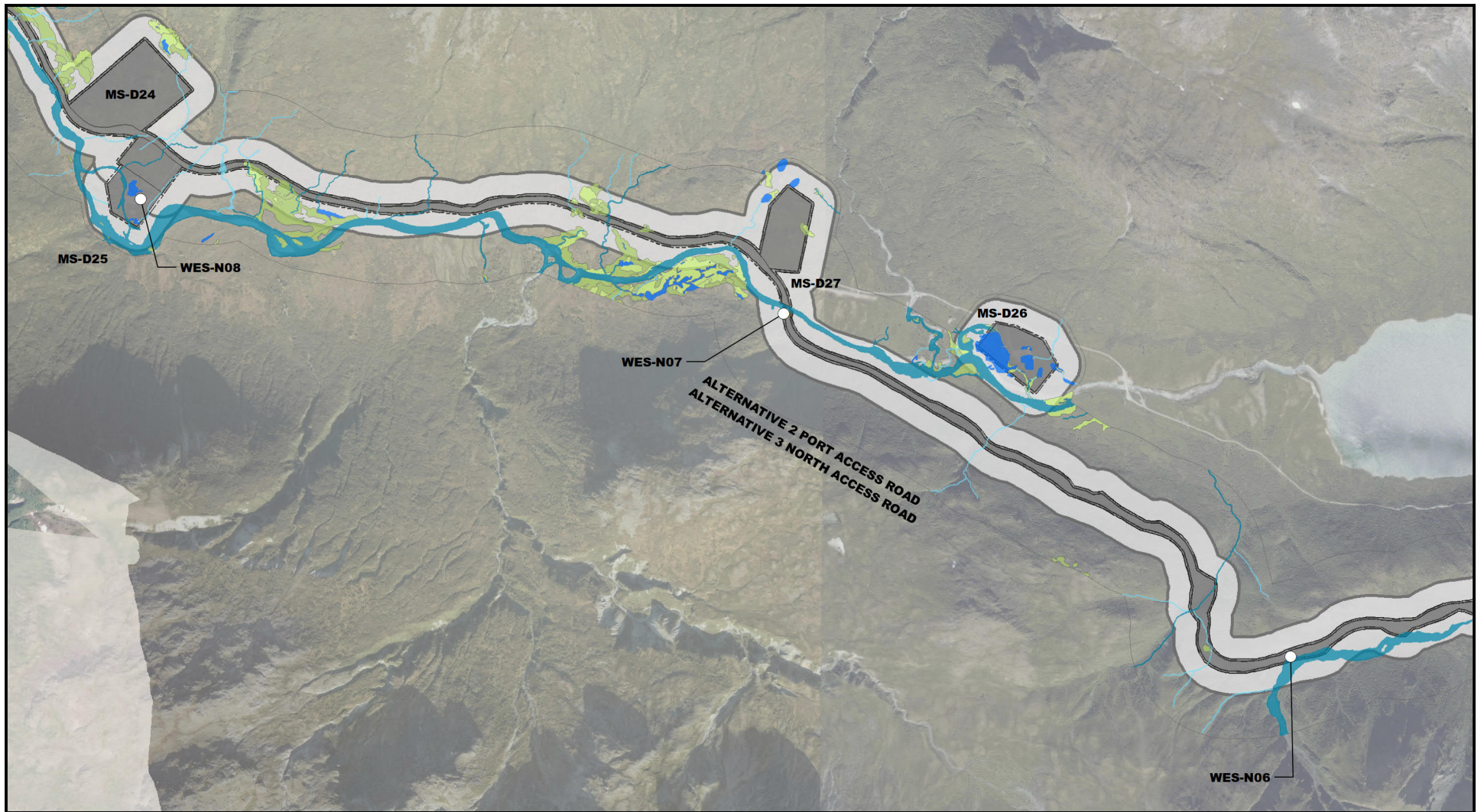
- Evergreen Forest
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-54 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

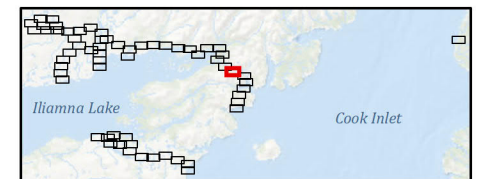
Indirect Impact

- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs

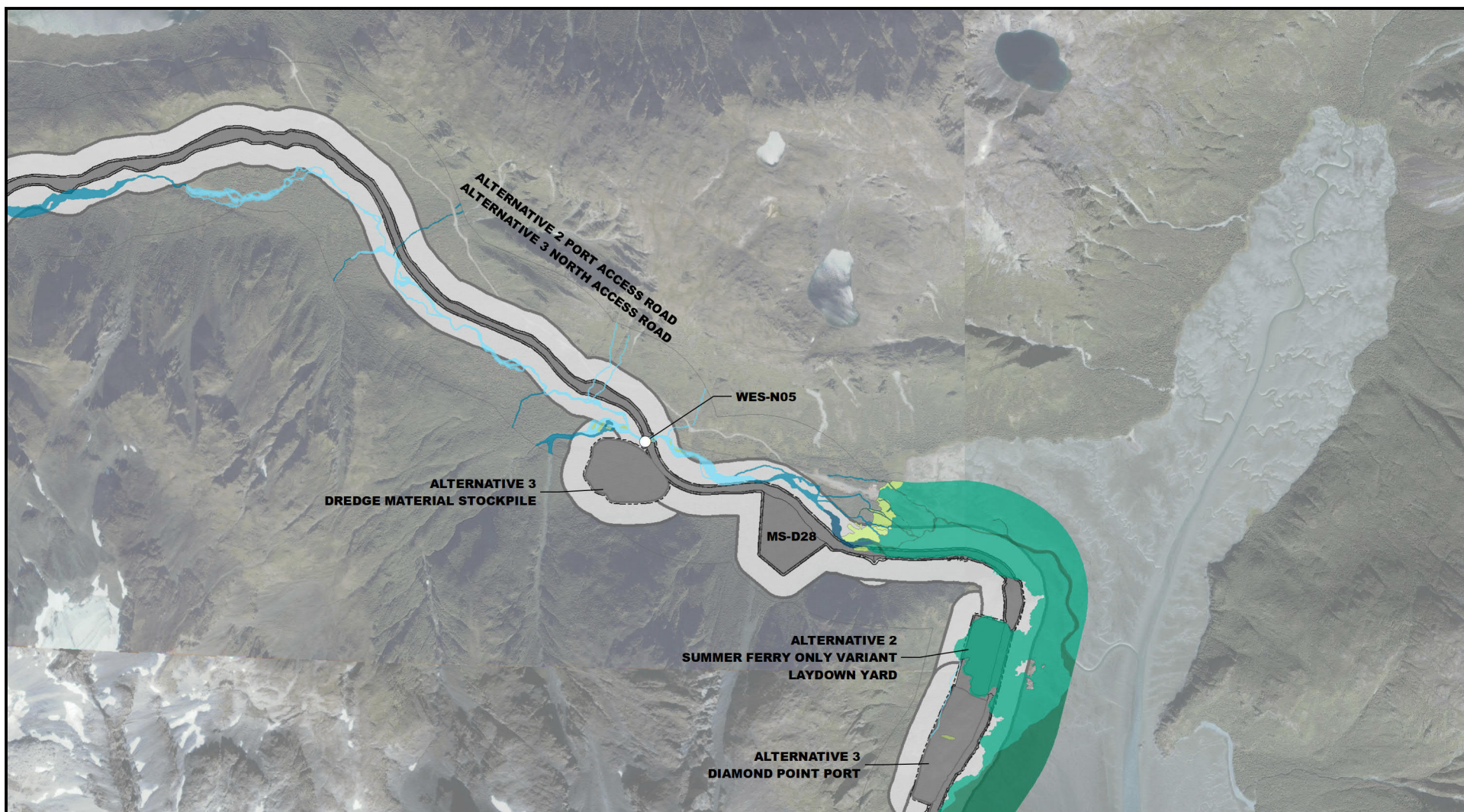
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-55 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

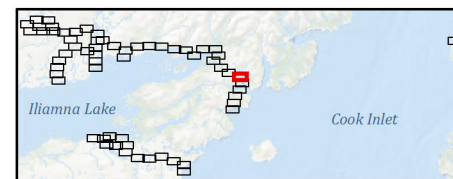
Indirect Impact

- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Estuarine (Intertidal)

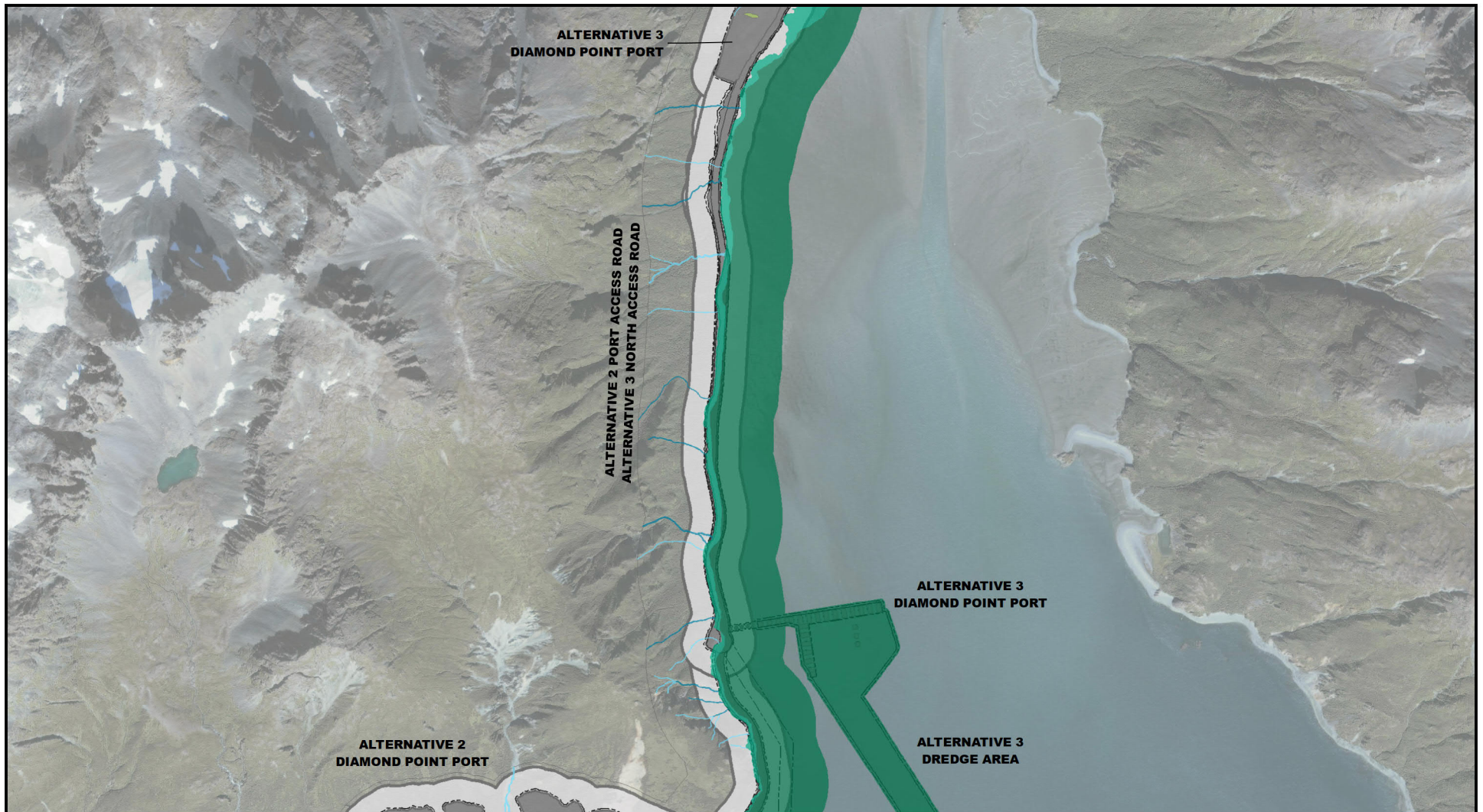
- Estuarine (Subtidal)
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Rivers/Streams (Tidal)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-56 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

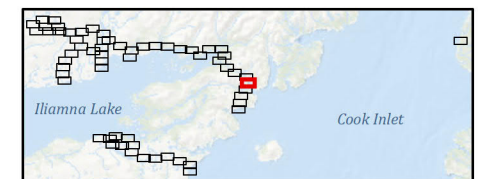
Indirect Impact

- Fugitive Dust

NWI Classes

- Broad Leaved Deciduous Shrubs
- Estuarine (Intertidal)

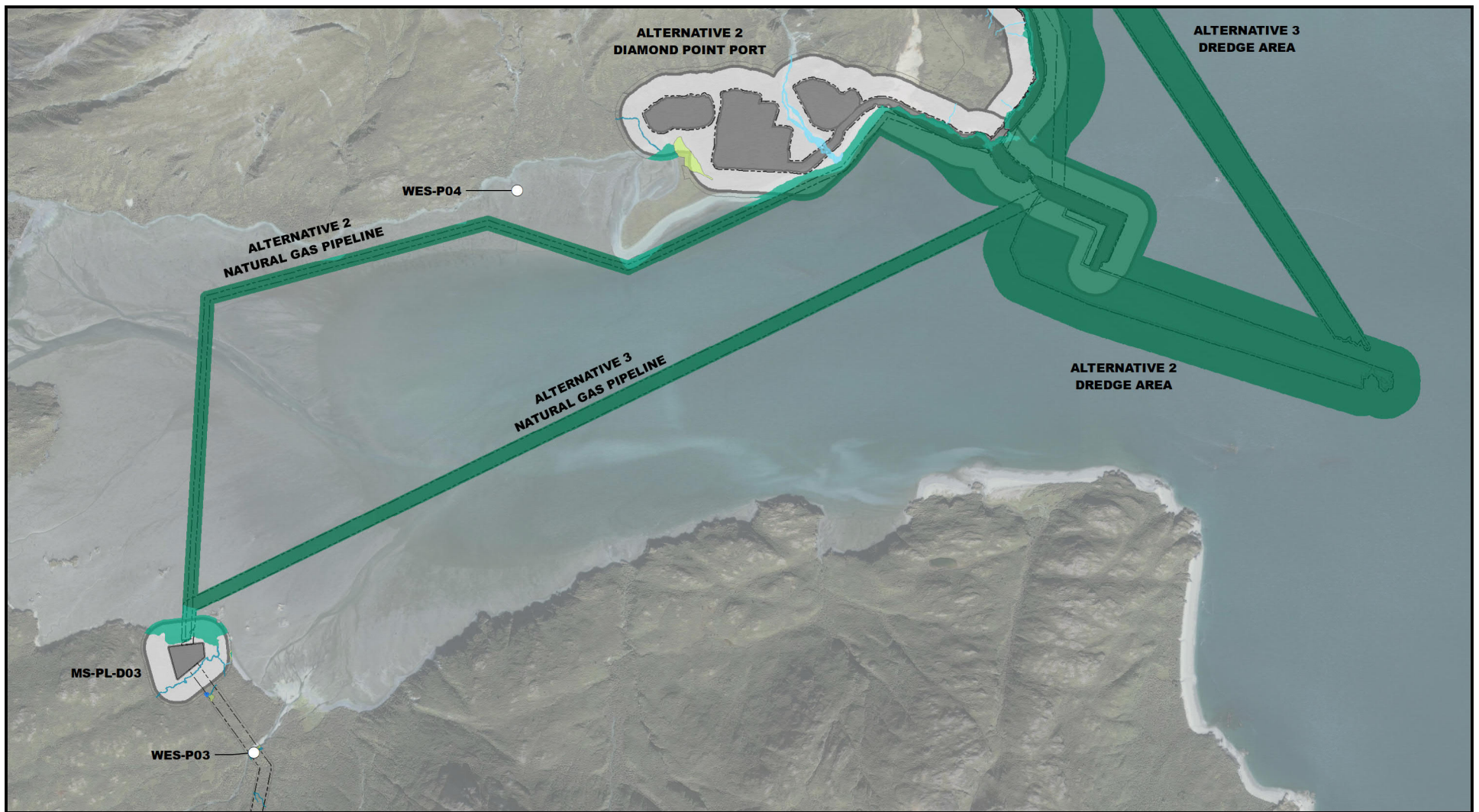
- Estuarine (Subtidal)
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-57 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

Permanent

Temporary

Indirect Impact

Fugitive Dust

NWI Classes

Herbaceous

Broad Leaved Deciduous Shrubs

Estuarine (Intertidal)

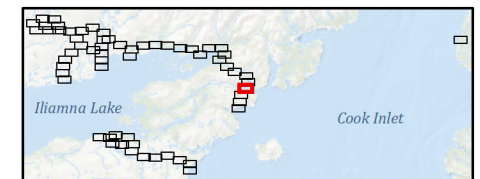
Estuarine (Subtidal)

Ponds

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-58 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

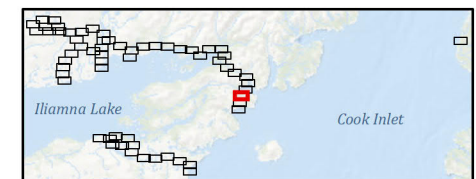
Indirect Impact

- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs

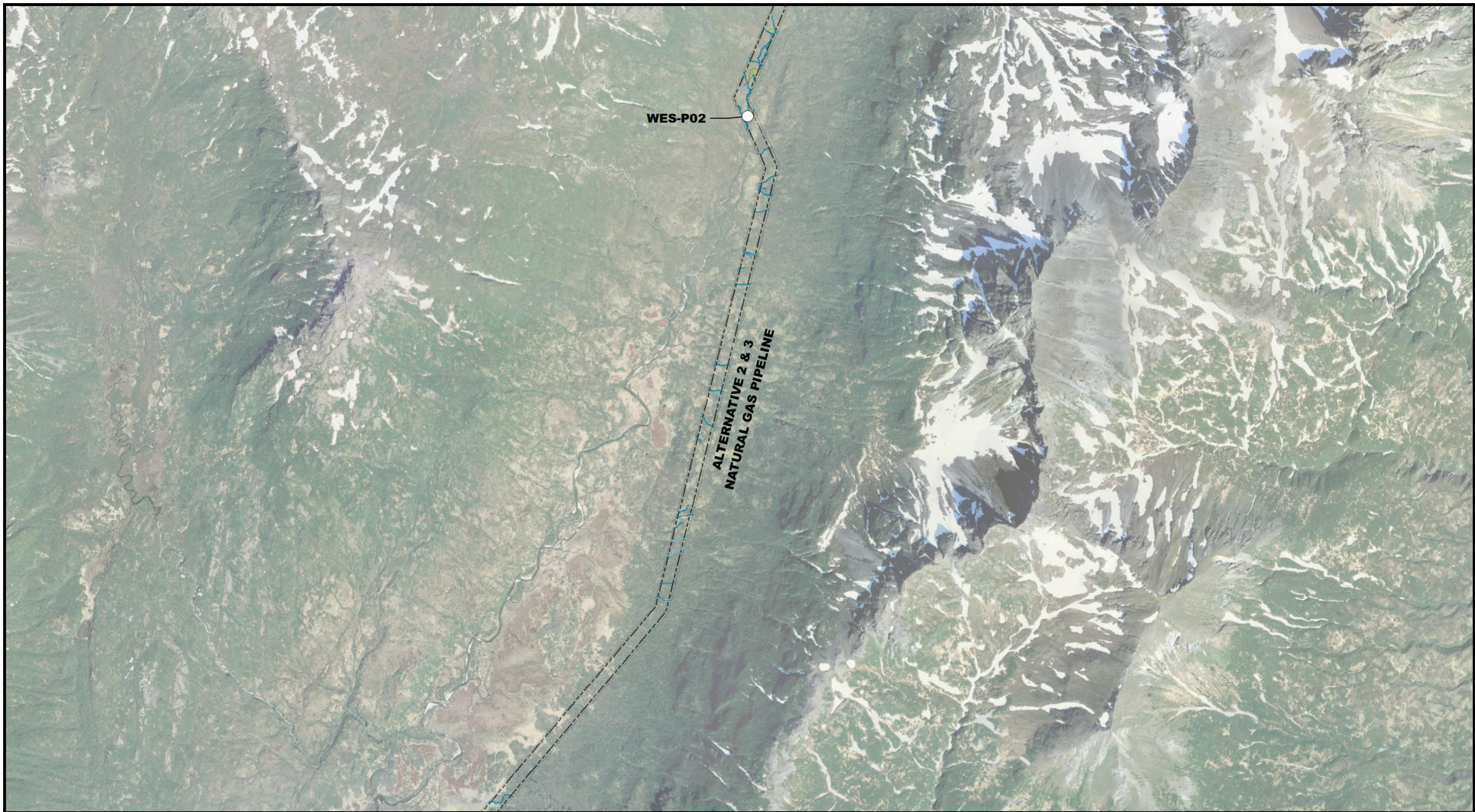
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-59 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

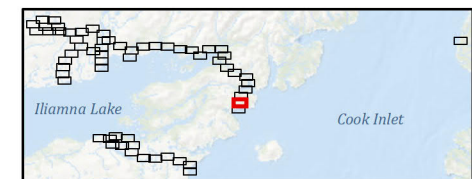
Indirect Impact

- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs

- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

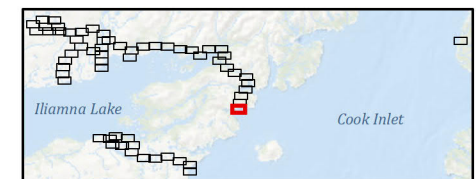
Indirect Impact

- Fugitive Dust

NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs

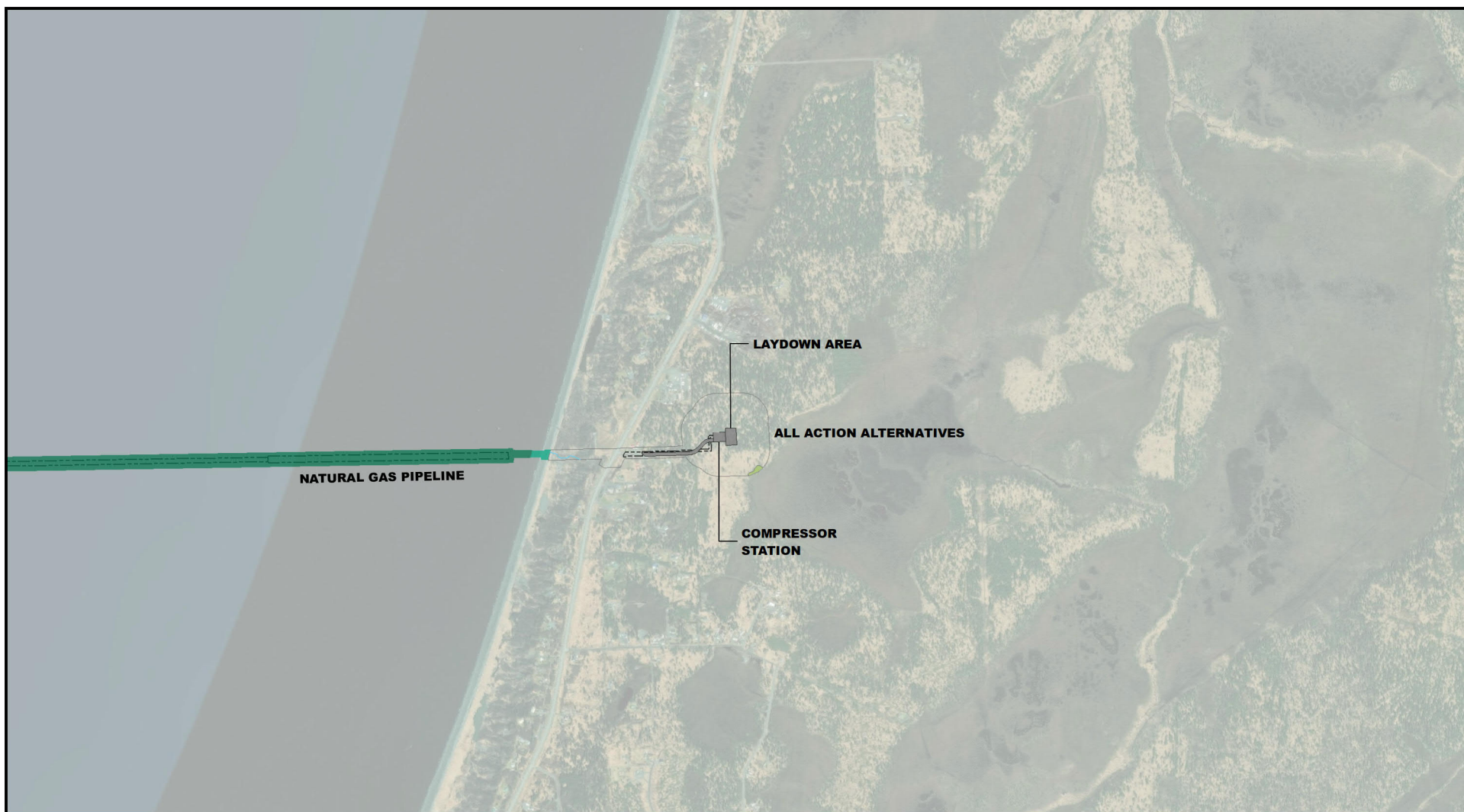
- Marine (Intertidal)
- Marine (Subtidal)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-61 of 62



Sources: PLP 2019-RFI116; PLP 2020 RFI-168;
PLP 2019 RFI-153



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1,000 0 1,000 2,000
Feet

Direct Impact

- Permanent
- Temporary

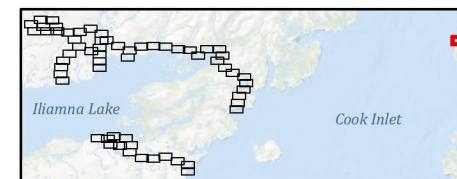
Indirect Impact

- ☼ Fugitive Dust

NWI Classes

- Broad Leaved Deciduous Shrubs
- Marine (Intertidal)

- Marine (Subtidal)
- Rivers/Streams (Intermittent)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-62 of 62