Corps Supplement, Attachment 1: Jurisdictional Determination (Corps JD)

| Operator/Company Name:	
APMA:	Corps permit # (for this APMA)
Waterway:	Date:

A jurisdictional determination (JD) is a Corps procedure used to determine whether a Section 404, Clean Water Act permit is required for a project at a site. A JD includes:

- *Identification of streams, open waters, wetlands and uplands on a site*
- *Identification of wetland type (forested, scrub-shrub, emergent, shallow open water)*
- *Determination that streams connect with downstream navigable waters*
- *Determination that wetlands abut or are adjacent to streams connecting to navigable waters*

*Please submit this information with your APMA for **new operations**, and **Multi-Year renewals**. The Corps will use this information to conduct an "offsite", "preliminary JD". An offsite JD uses landscape information, including fire history and previous disturbance to help make a determination. A preliminary JD is based on best available information – providing high quality information will benefit you by not having to hire a consultant to provide a JD.*

Watershed Questions

Watershed–Area drained by a stream or river and all of its tributaries.
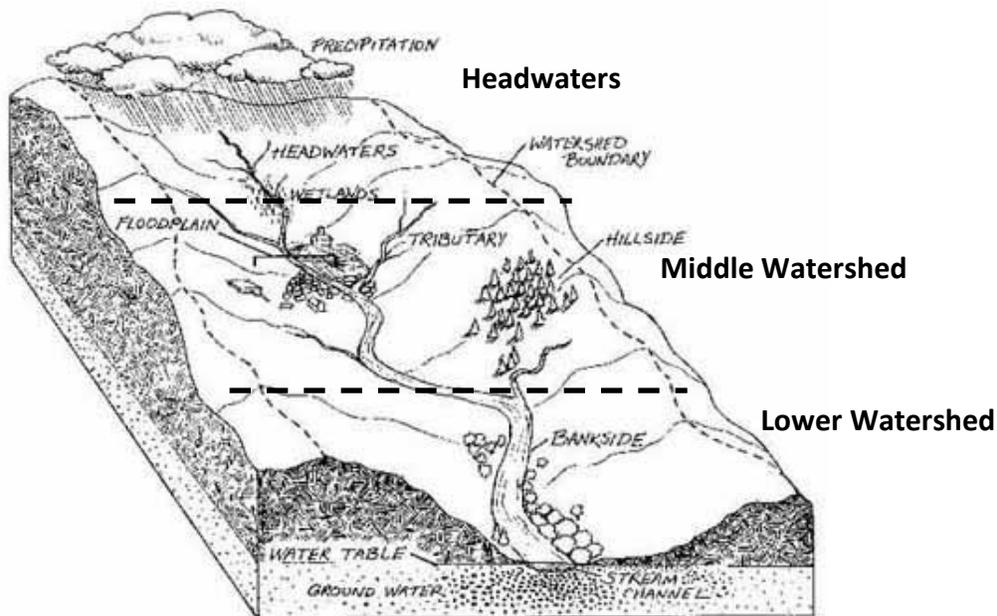
Please mark location of your operation in the diagram above.

Has there been previous mining in the watershed? YES ☐ NO ☐
- If yes, when? _____
- What methods were used? _____
- Has it been reclaimed?
- Where was mining in relation to your site: (check all that apply)
  ☐ Upstream ☐ Downstream ☐ At site

Are there currently active operations upstream or downstream of you?
(check all that apply) YES ☐ NO ☐
☐ Upstream

☐ Downstream

Has the watershed been burned by fire? YES ☐ NO ☐
- If yes, when? _____
- If yes, have you experienced? (check all that apply)
☐ Landslides: When?

☐ Large flood events: When? _____

☐ Sediment during rainfall

Which best describes the valley where you mine?:

☐ Gulch or pup: Steep, narrow valley, no floodplain or narrow floodplain, channel is entrenched or incised, contained within the valley, found in headwaters.

Average gradient: ☐ 2-4% ☐ 4-10% ☐ > 10%

☐ Narrow valley: Somewhat wider than gulch or pup. Single channel stream has enough room in the valley to move from side to side, well defined bars and banks during summer flow, may overtop during mean annual flood, found mid-watershed.

Average gradient: ☐ 2-4% ☐ other: _____%

☐ Wide valley: Stream channels have moderate to flat grades, wider floodplains, well defined bars and banks, found lower watershed.
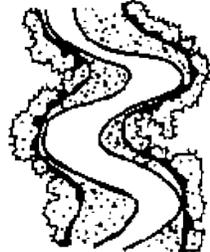
Average gradient:

☐ <0.5 % ☐ < 2 % ☐ 2- 4 %

Which image best depicts the stream? Straight ☐ Meandering ☐ Braided ☐

Straight Meandering Braided

What is the status of fish in your stream?
☐ Anadromous ☐ Resident ☐ No fish recorded

Did you contact the Alaska Department of Fish & Game? YES ☐ NO ☐
- Contacted: _____
- Date: _____

Did you consult the Anadromous Waters Catalog (AWC)?
http://extra.sf.adfg.state.ak.us/FishResourceMonitor/?mode=awc

Note: *The AWC is updated annually by June 1st of each year. Fish status may change based on the prior year's work.*

Photos and questions about your work area:

Please include GPS locations in Datum WGS 84, four decimal places (64.1234, -165.2223)

Aerial Photo: *Please provide an Aerial Photo of your operation. This is the primary source of information for your Corps JD.*

Photos are available from your land manager or other source. Alaska Mapper and high altitude infrared printouts are generally not acceptable.
☐ Is your photo clear, sharp, and reproducible
☐ Please outline the projected 5 year footprint of your operation on the photo

Streams: *Please provide pre-mining photos of the following*

☐ Upstream view of stream channel
☐ Downstream view of stream channel
☐ Any conditions such as headcuts, entrenchment, aggradation
☐ Close-up photos of existing conditions on the streambank

☐ Start point (upstream) of stream diversion or relocation
☐ End point (downstream) of stream diversion or relocation location
☐ Photos that show vegetation along diversion route.

Riparian Area Condition (*Check all that apply, estimate dimensions*)

☐ Vegetated riparian area has been maintained, 70 – 100% plant cover
(Width _____ feet x length _____ feet)

☐ Vegetated riparian area has been restored has at least 70% plant cover
(Width _____ feet x length _____ feet)

☐ Riparian area is partially disturbed, has 30% - 70% plant cover
(Width _____ feet x length _____ feet)

☐ There is no riparian vegetation, less than 30% cover
(Width _____ feet x length _____ feet

Wetlands: *Wetlands are identified by vegetation, soils, and hydrology.*

Vegetation: *Please provide photos and estimate area of each vegetation type at your site.*

☐ Black spruce on permafrost ground _____ acres
☐ Willow shrubs   _____ acres
☐ Sedge or cottongrass _____ acres
☐ Wet or moist tundra   _____ acres
☐ Alder   _____ acres
☐ Other   _____ acres

Soils: *Please provide photos of the soil profiles* of each vegetation type. You will need to dig a hole with a bucket or shovel, and include an object for scale.*
* Soil profiles are very important for black spruce and tundra communities.

What is the composition of native soils at your site? (check all that are present)
☐ Cobbles ☐ Gravel ☐ Sand ☐ Silt ☐ Clay

Depth of non-pay overburden?
☐ None
☐ Gravel _____ feet
☐ Organic material (muck or peat) _____feet
Depth to bedrock _____ feet

Do you have permafrost (ie ice, frozen ground) at your site? If yes:
How long will it take to thaw once stripped:

Hydrology: *Please include a photo that shows the topography or landform of the area.*

Do you have? (check all that apply)
☐ Old settling ponds that have naturalized _____ acres
☐ Saturated soil
☐ Water table within 12 inches of soil surface
☐ Standing water_____ acres

COMPLIANCE CERTIFICATION STATEMENT:

I certify that information contained in the APMA and the Corps Supplements truthfully represents the conditions at the project site and the plans I intend to follow. If plans change, I will submit an amendment to my APMA.

_____   _____

Operator Signature   DATE

The Certification must be signed by the person who desires to undertake the proposed activity (applicant).