GENERAL: To conduct exploration or mining activities in the State of Alaska, permits and licenses may be required from several State and Federal agencies. This application, when completed, will be distributed by the Division of Mining, Land & Water (DMLW) Mining-Sections (DNR-Mining) to those agencies involved in the permitting process.

OPERATIONAL PERMITS: For most placer operations, the completion of this form should satisfy the application requirements for the following permits. Once you file your application, it will be reviewed by DNR-Mining and distributed online to the other agencies. Each agency will download and review your application and issue their permit. Do not assume that you have all of the permits you required to have. We suggest that you contact each agency to make sure your application has been received and processed.

- **DNR-Mining:**
  - Miscellaneous Land Use Permit (MLUP); Approved Plan of Operation (mining activity on State Upland Mining Leases; Offshore Mining Leases; Offshore Prospecting Permits); and Reclamation Plan of Approval for a mining operation.
  - Mining operations on State land are also subject to the production royalty, administered by the ADNR. Failure to comply with production royalty requirements can result in loss of mining claims, default of leases, or suspension/revocation of the Miscellaneous Land Use Permit.
  - Winter Cross Country Travel. Applications must be submitted 4 weeks prior to commencement of travel.

- **DNR – DMLW – Land Section (DNR-Lands):** Miscellaneous Land Use Permit (access/surface activity on State land off mining claims, including summer cross country travel). Summer cross country travel permits can take 60-90 days to process. Submit applications early.


- **Alaska Department of Fish & Game (ADF&G):** Fish Habitat Permits (Title 16).


- **Department of Environmental Conservation (DEC):** Wastewater Discharge General Permit (APDES).

- **U.S. Army Corps of Engineers (USACE):** Regional General Permit (RGP 2006-1944-M1) for placer mining activity when surface disturbance is 10 acres or less and stream diversions less than 2000 feet in length. Otherwise, an individual permit is required and must be applied for separately (see below). **It is the applicant’s responsibility to initiate an individual permit** if the area of disturbance or length of bypass before these limits are exceeded. Regional General Permit is verified by USACE. APMAs RECEIVED BY DNR-MINING AFTER 5/31/2013 WILL NOT RECEIVE USACE GENERAL PERMITS FOR THE 2013 MINING SEASON.

OTHER PERMITS OR INFORMATION THAT MAY BE REQUIRED:

- **DEC Individual Permit – Separate application may be required for operations that do not qualify a general permit.**

- **Notice of Operator Authorization Form (NOOA) – Operators on State land, not recorded as owners, need to submit a NOOA with the APMA. NOOA form is available at [http://dnr.alaska.gov/mlw/forms/13apma/nooa.pdf](http://dnr.alaska.gov/mlw/forms/13apma/nooa.pdf)**

- **Department of Revenue: Alaska Mining License (DOR) – It is a license for purposes of the mining license tax, not a license to mine. Non-compliance with mining license tax requirements can result in financial penalties. If you sell gold or other precious metals a mining license is required. If you have questions, contact Sarah Wilson, (907) 269-1017 sarah.wilson@alaska.gov.**

- **USACE Individual Permit (IP) - For operations over 10 acres, or with greater than 2000 feet of stream diversion a Department of the Army (DA) application will be required. USACE includes bypasses, roads, camps, runways, and mining cuts in acreage calculations. Road construction may require a separate permit. Advance planning is required: complete application must be submitted 120 days prior to the start of the mining season. A complete application must include a jurisdictional determination, functional assessment and compensatory mitigation statement. If an IP is needed and has not been obtained, the operator is subject to a notice of noncompliance or violation. A DA application will require an avoidance, minimization and compensation statement as outlined on the USACE web page. Individual Permit application materials are available online at [http://www.poa.usace.army.mil/](http://www.poa.usace.army.mil/) or call (907) 753-2712 to request application materials.**
RECLAMATION: Applications must be submitted early to assure the issuance of permits and approval of reclamation plans before commencement of field operations (for DNR-Mining, the APMA is considered to be the proposed Reclamation Plan). In accordance with Alaska Statute 27.19, a miner may not engage in mining activity, involving five or more acres of disturbance on State land, until a reclamation plan has been approved. Operations under five acres must submit a Letter of Intent to Conduct Reclamation by checking the appropriate box on the Reclamation Page (Section 35) and file an Annual Reclamation Statement no later than December 31st. All plans and notices on BLM managed lands per 43 CFR 3809.10 require a separate reclamation plan to be filed with BLM.

BONDING: All mining operations, with a mining disturbance of five acres or more on State land, must be bonded per Alaska Statute 27.19. The State does not include roads and camps in bonded acreage. The "State Wide Bond Pool Form", included with this packet, may be submitted with the application to satisfy this requirement or evidence of an individual performance bond may be submitted. Operations of less than five acres disturbance on State land normally do not require bonding. If your operation involves BLM managed land, you must obtain BLM approval of your bond pool form prior to submission of the application to a DNR-Mining office. BLM requires bonding for all disturbances, including mine cut, haul roads and camps.

AMENDED PLANS: Changes in operation must be submitted in writing and approved in advance before the commencement of such activity.

FEES: A $150.00 processing fee is charged when an APMA is submitted and thereafter $50.00 is charged for each amendment to the application.

- “Multi-Year” Miscellaneous Land Use Permits and Reclamation Plan Approval and Approved Plan of Operations (for up to five years): $150.00 payable when APMA is submitted and a discounted $50.00 fee for each additional year.
- Make check or money order payable to "DEPARTMENT OF NATURAL RESOURCES."
- Applicants who request a mixing zone from DEC (section #26) are subject to an additional $150.00 annual fee. A $25.00 discount is available to facilities with fewer than 20 employees. DEC will mail a separate invoice upon authorization.

STRUCTURES/CAMP FACILITIES: The placement and use of all surface structures must be requested and approved in advance and described in detail. Structures must be necessary for the mining or exploration activity and will be temporary in nature, without permanent foundations. Recreational cabins and commercial recreation businesses are not authorized under mining law. Separate authorization for these activities must be acquired from DNR-Lands. Please note that fill discharged in wetlands or other waters of the U.S. for the construction of camps may require a separate application to the USACE.

INTERAGENCY SUPPLEMENTAL FORMS AND DOCUMENTS ARE AVAILABLE AT: [http://dnr.alaska.gov/mlw/forms/?tab=mining](http://dnr.alaska.gov/mlw/forms/?tab=mining)

**** NEW REQUIREMENT FOR ELECTRONIC SUBMISSION ****
If an applicant is requesting authorization to conduct permitted activities on more than 12 claims an electronic list of ADL’s will be required in MSExcel format. A MSExcel template is downloadable at: [http://dnr.alaska.gov/mlw/forms/?tab=mining](http://dnr.alaska.gov/mlw/forms/?tab=mining). Electronic application materials can be submitted by e-mail to dnr.fbx.mining@alaska.gov or provided on other media with application packet.

SUBMIT COMPLETED APPLICATIONS TO ONE OF THE OFFICES BELOW:

- State Division of Mining, Land & Water
  Mining Section
  550 W. 7th Ave. Suite 900B
  Anchorage, AK 99501-3577
  Telephone: (907) 269-8647 or (907) 269-5916
  FAX: (907) 269-8949
- State Division of Mining, Land & Water
  Mining Section
  Or
  3700 Airport Way
  Fairbanks, AK 99709-4699
  Telephone: (907) 458-6896 or (907) 451-2791 or (907) 451-2774
  FAX: (907) 451-2703
Applications are processed in the order they are received. Applications submitted after May 1 may not be processed before the start of the mining season. Applicants who need winter cross country travel need to submit their application 4 weeks before the planned travel.

PREPARATION OF APPLICATION: State mining regulations require applications to be completed in ink or by typewriter. All sections MUST be completed. If it is not applicable to the operation, then indicate by “N/A”. Sketches must include all components listed on the sketch checklist -- again, indicate “N/A” if a component does not apply.

ATTACHMENTS: Attachments to your application can be in black and white or color and should measure at least 8 1/2” x 11” in size. Over size or color attachments, required to clarify complex operations, may be provided by the applicant in addition to the 8 1/2” x 11” size used to meet distribution requirements. Applicants requesting authorization to conduct permitted activities on more than 12 claims will be required to submit supplemental information in electronic format. Electronic application materials can be submitted by e-mail to dnr.fbx.mining@alaska.gov or provided on other media with application packet. Please call DNR-Mining if you have questions.

CHECKLIST: Please review the following checklist and make certain all applicable items are included before submitting the application – INCOMPLETE APPLICATIONS WILL BE RETURNED.

[ ] Is the applicable processing fee enclosed?
[ ] Are all sections on the application completed? Write “N/A” or “DOES NOT APPLY” or draw a diagonal line through any sections, which do not apply.
[ ] Completed, current, readable sketch and narrative of proposed operation. Include all items listed on sketch checklist.
[ ] Reclamation pages signed and dated with the appropriate boxes checked: 2012 Annual Reclamation Statement (section 34) and Reclamation Plan (section 35)
[ ] Notice of Operator Authorization form -- If you are operating on State mineral locations and are not an owner of the property being worked.
[ ] Completed State Wide Bond Pool Form or State Wide Bond Pool Renewal Form, if applicable. Include signed BLM approval if Federal claims are listed on the APMA.
[ ] Applicable reclamation bonding fees.
[ ] BLM Supplemental Forms Completed if necessary
[ ] Multi-Year APMA Permit Holder – the following forms must be submitted annually:

[ ] Signed Annual Reclamation Statement (section 33) – if disturbance is less than 5 acres or if you want the form to be used for the USACE annual report.
[ ] Signed Annual Reclamation Plan (section 34)
[ ] Signed Bond Renewal Form – with appropriate fees, if disturbance is equal to or greater than 5 acres on State or Private land or any disturbance on BLM land.

[ ] Photography of site suitable for USACE PRELIMINARY Jurisdictional Determination (see USACE section 33).
[ ] All attachments (paper or electronic) included.
[ ] Are applicable maps listed below enclosed?

ACCESS MAPS: Include the appropriate U.S. Geological Survey (USGS) topographic map or maps at a scale of one inch equals one mile (1:63,360) overlain with the proposed access route. Identify entire access route to your claim block from a major road system, airstrip, or boat landing. Reproduced portions of maps in 8” x 11” size are acceptable, provided they are readable and suitable for copying. Each map should be clearly identified with: 1) USGS identifier, i.e. Fairbanks A-3; and 2) all legal descriptions (townships and ranges involving the route). List all named and unnamed streams crossed by the access route. See example.

CLAIMS LOCATION MAP: Include a USGS topographic map at a scale of one inch equals one mile (1:63,360), illustrating: location; claim name; claim number; camp location; airstrips; legal description; and appropriate USGS map identifier. Identify those claims with existing disturbance and those on which activity will take place this season.

INCOMPLETE APPLICATIONS WILL BE RETURNED
STATE OF ALASKA
Multi-Agency Permit Application (APMA)
FOR PLACER MINING

Multi-year start year: ____________ end year: ____________ APMA Number: ___________________

**APPLICANT AND SITE INFORMATION**

<table>
<thead>
<tr>
<th>What type activity are you planning to perform?</th>
<th>Are the mineral properties?</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Exploration</td>
<td>[ ] State (General)</td>
</tr>
<tr>
<td>[ ] Mining/Reclamation</td>
<td>[ ] State (Mental Health)</td>
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<td>[ ] Suction Dredging</td>
<td>[ ] Private (Patented)</td>
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<tr>
<td>[ ] Access Equipment</td>
<td>[ ] Federal</td>
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</tbody>
</table>

Check, as appropriate, and indicate permit number, if any of the following agencies have issued permits for these mineral properties:

- [ ] DNR-Water TWUP/ADL/LAS Number: ______________
- [ ] DEC- APDES Wastewater Discharge Permit No:___________________________
- [ ] ADF&G – Habitat Permit No: FH-_____________________ Date expires __________
- [ ] BLM - “Notice”__________________  “Authorization” ____________________“Occupancy” ____________________
- [ ] USACE Permit No(s) POA-_________-________________ , POA-_________-________________
- [ ] Other State or Federal Permit No:______________________

Name of ALL Mineral Property Owners: (Attach Separate Sheet As Necessary)

Lessee: Operator:

Mailing Address for official correspondence:

Home Phone (Winter): Work Phone (Winter):

Home Phone (Summer): Work Phone (Summer):

Cell/Satellite Phone:

FAX:

E-mail:

Winter contact effective dates ___________ to ___________
Summer contact effective dates ___________ to ___________

Operator’s Federal EIN Number: ___________ Number of Workers: ___________

Intended Start-up/Shut Down (Month/Day) ______ to __________

Mining District: Applicable USGS Quad Map: On What Stream Is This Activity?

**LEGAL DESCRIPTION** of Mineral Properties To Be Worked (Township, Range, Section, Meridian):

Legal Description of all other project-related activities, such as camps and water access (Township, Range, Section, Meridian):

LIST ONLY **MINERAL PROPERTIES** WITH CURRENT DISTURBANCE AND/OR THOSE ON WHICH PERMITTED ACTIVITIES WILL OCCUR
Attach additional sheets as necessary AND provide in electronic format if you are submitting more than 12 properties (electronic copies can be submitted via e-mail to dnr.fbx.mining@alaska.gov or provided on other media with application packet).

<table>
<thead>
<tr>
<th>ADL/BLM/USMS NUMBER</th>
<th>PROPERTY NAME</th>
<th>ADL/BLM/USMS NUMBER</th>
<th>PROPERTY NAME</th>
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<td>6.</td>
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</table>

**DESCRIPTION OF EQUIPMENT**

List equipment to be used (type, size, purpose, and number of each, including pumps).

**IN-STREAM ACTIVITIES and STREAM CROSSINGS**

List any equipment that will be crossing streams during mining activities.

List any equipment that will be used in the stream during mining activity.

Describe method(s) used to prevent fish entrapment.

List all streams, including unnamed streams, with the aliquot legal description of the crossing point and any suction dredge or pump locations (Attach additional sheets as necessary).

<table>
<thead>
<tr>
<th>Stream Name</th>
<th>NAD 83 Datum</th>
<th>MTRSC ¼ ¼</th>
<th>Check boxes to indicate type(s) of activity</th>
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<tbody>
<tr>
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<td>Coordinates can be obtained using Alaska Mapper <a href="http://dnr.alaska.gov/MapAK/">http://dnr.alaska.gov/MapAK/</a></td>
<td>Ex: F001S001N01 SWSW</td>
<td>Crossing, Dredging, Pump Intake</td>
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<td>Longitude -ddd.mmmm</td>
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</table>
Access across state land may require a “Land Use Permit” from DNR-Lands. Access across Mental Health Trust Lands (MHTL) will require authorization from the MHTL Office. Access requiring equipment fording of anadromous streams will require authorization from the ADF&G, Division of Habitat. Access across federal land requires approval of the managing federal agency. Access across private property, including native corporation lands and other private property, may require authorization from the private property owner. It is the responsibility of the applicant to contact the private property land owner to assure all required permits for access are obtained.

A completed access map must be submitted with your application. Copies of USGS topographic maps at a scale of 1"=1 mile must clearly indicate the proposed access route from start to finish and include appropriate legal descriptions (township and range) on each map sheet. The quadrangle map name should also be indicated (Healy A-3, etc.). Paper size should be limited to 8 ½” x 11”. Do not tape maps together.

Access outside the claim block crosses what type of land(s)?

[ ] State (General)  [ ] State (Mental Health)
[ ] Federal  [ ] Private (Patented)  [ ] Private (Native Corp. Land)

Does the proposed route of travel include use of RS 2477 access? [ ] Yes  [ ] No. If the RS 2477 ROW has a State of Alaska RST number please list [ ].

If not, do you wish to nominate the route for RST assertion? [ ] Yes  [ ] No.

Access is:  [ ] Existing  [ ] To Be Constructed  [ ] Both

(Explain):_________________________________________________________________________________________

If access is to be constructed, indicate: Type: ________ Length: ________ Feet  Width: ________ Feet

Depth: ________ Feet

Easements are required from the DNR-Lands to construct access on State land outside a claim block. “Construction” is the use of mechanized equipment to create or improve access, including dropping the blade or bucket, and/or adding gravel to the surface. Contact the DMLW in Anchorage (907) 269-8503, or Fairbanks (907) 451-2740 to determine if a ROW permit is required. Applications may require six months to one year to process. As built surveys may be required.

NOTE: Any access constructed across “wetlands”, ponds, streams, or other waters of the U.S. including those within your claim block, may require a USACE “404” permit. It is the responsibility of the applicant to contact the USACE for a determination as to whether or not this permit is required.

Indicate Type(s) of Access:

[ ] All Season Road -- A road (may be an improved dirt road) intended to be used during all seasons of the year without causing long term damage to the road.

[ ] Summer Cross Country Travel -- Summer travel without a DNR permit is limited to generally allowed uses on State land (11 AAC 96.020), but may require a ADF&G permit. Summer travel beyond generally allowed uses requires a permit that is requested and permitted by DNR-Lands. A performance guarantee for cross-country travel on State lands may be required. If required, the performance guarantee must be received before a permit will be issued and will be released after travel is completed and no trail damage has occurred. For questions about generally allowed uses, contact the DNR Public Information Center (Anchorage (907) 269-8400, Fairbanks (907) 451-2705, Juneau (907) 465-3400) or view a fact sheet at http://dnr.alaska.gov/mlw/factsht/gen_allow_use.pdf

[ ] Airstrip -- Indicate length: ________________ Feet     [ ] River

[ ] Winter Cross Country Travel – Travel off an all season road with equipment/vehicles that are not generally allowed. Vegetative mat shall not be damaged. Authorized cross country travel dates vary depending on region and weather conditions. Please contact the appropriate area land manger for more information.

Will water be required to construct ramps/ice bridges? [ ] Yes  [ ] No.

If Yes, estimated quantity of water will be used ________________ Gal/day. Indicate crossing location in section 16.

If you are transporting equipment and/or fuel and require winter cross country travel authorization, please complete the following:

List all equipment and vehicles being transported:

_________________________________________________________________________________________

_______________________________________________________________________________________

Are you transporting fuel?  [ ] Yes  [ ] No  If “yes “, indicate type and amount:

_______________________________________________________________________________________
Winter Cross Country Travel Continued:  

Are you transporting other petroleum products?  [ ] Yes  [ ] No  If “yes”, indicate type and amount:

________________________________________________________________________________________

How are the fuel/petroleum products contained? (i.e., drums, bladders, steel tanks, etc.)  Indicate size of each container:

________________________________________________________________________________________

How are the fuel/petroleum products being transported (i.e., skid-mounted tank; trailer; 55 gallon drums on skid; tanker truck, etc.)?

________________________________________________________________________________________

Indicate proposed dates for each period of cross country travel (apply at least 4 weeks prior to start of travel):

________________________________________________________________________________________

NOTE: All cross-country travel must be specifically authorized by the appropriate land manager(s) prior to the commencement of travel. Travel may not be authorized if trail conditions indicate damage could occur.

PLACER MINING METHOD

Indicate Methods of Mining/Processing Used in Operation:

[ ] Mechanical Placer Mining with Dozer, excavator etc.
[ ] Bucket Line Dredge: Bucket Size: _________ Cubic Feet  [ ] Hydraulic Giant: Nozzle Size _________ Inches
[ ] Washing Plant  [ ] Sluice Box: Length: _________ Feet  Width: _________ Feet

Number of Channels: _____________________

ESTIMATED:

Sluice Days This Season: _______

Cubic Yards of Material To Be Processed: Daily: _______ Annually: _______

[ ] Suction Dredge # 1:  Nozzle Size: _________ Inches -- Engine HP: _________ Hours/day operating

Type of location:  [ ] Stream  [ ] Pond connected to stream  [ ] Pond isolated from stream

[ ] Mine cut isolated from stream

[ ] Suction Dredge # 2:  Nozzle Size: _________ Inches -- Engine HP: _________ Hours/day operating

Type of location:  [ ] Stream  [ ] Pond connected to stream  [ ] Pond isolated from stream

[ ] Mine cut isolated from stream

Additional Dredges:

________________________________________________________________________________________

Are dredges used simultaneously? [ ] Yes  [ ] No  If YES, describe:

________________________________________________________________________________________

OVERBURDEN

Has this site been previously mined?  [ ] Yes  [ ] No

Type:  [ ] None  [ ] Gravel, Average Depth: _________ Feet  [ ] Organic Material, Average Depth: _________ Feet
# Exploration Trenching

(Indicate Trench Locations On Sketch Sheet or Topographic Map)

Estimated Number of trenches to be excavated: _______________

Type of Equipment to be Used: ______________________________________

Average Size:  
Length: _______ Feet  
Width: _______ Feet  
Depth: _______ Feet

How long will trenches be open? ______________________________________

## Trench Location and Mining Claim Information

<table>
<thead>
<tr>
<th>Trench ID on Map</th>
<th>ADL/BLM/USMS NUMBER</th>
<th>NAD 83 Datum - Coordinates can be obtained using Alaska Mapper <a href="http://dnr.alaska.gov/MapAK/">http://dnr.alaska.gov/MapAK/</a></th>
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If more than 5 trenches will be excavated, please provide data on separate sheets.

# Placer Exploration Drilling

(Indicate Locations On Sketch Sheet or Topographic Map)

Number of Holes To Be Drilled: __________  
Type of Drill Used: _________________________________

Estimated Maximum Depth: _______ Feet  
Diameter of Holes: ____________ Inches

Will water be used?  
[ ] Yes  
[ ] No

How Will Drill Holes Be Plugged Upon completion?
_______________________________________________________________________________________________
__________________________________________________________________________________________

Water source, pump intake, output, hose/pipe length must be noted on map AND in a narrative

# Explosives

Will Explosives Be Used?  
[ ] Yes  
[ ] No  
If “Yes”, Indicate:  
Type: ______________  
Amount: ____________
STRUCTURES / FACILITIES

(Placement and use of any surface structure must be requested in writing and approved in advance)
(Include location, claim name and number, on sketch sheet and topographic map)
(An active APMA must be maintained for structures to remain authorized. (AS 38.05.255(a)).

[ ] Camp authorization not required
If camp is on private land, provide camp contact and location information below.

Camp name: ________________________________________________________________
Camp location: ______________________________________________________________
Camp contact phone: ________________________________________________________

[ ] Request use of existing facilities (Indicate number and size of each):

Area of Camp: Length ____________ Feet         Width ____________ Feet
[ ] Frame ___________________ [ ] Trailer ________________ [ ] Tent/Tent Frame __________________

[ ] Request authorization to place temporary structures (Indicate number and size of each):

Area of Camp: Length ____________ Feet         Width ____________ Feet
[ ] Frame ___________________ [ ] Trailer ________________ [ ] Tent/Tent Frame __________________

In consideration of potentially significant historic properties/cultural resources, please do not remove or disturb any
buildings, structures, objects, or artifacts that were located on the site prior to conducting permitted activities – If you have
questions please contact Mark Rollins of State Historical Preservation Office (SHPO) at (907) 269-8722 or
mark.rollins@alaska.gov

FUEL

Total Volume of Fuel Stored in 55 Gallon or Larger Containers:__________________ Gallons
Projects with cumulative fuel volume on site larger than 1320 gallons must meet EPA Spill Prevention Control and
Countermeasures (SPCC) regulations 40 CFR 112. Fuel volumes larger than 10,000 gallons must have a SPCC plan
certified by a professional engineer. For additional information on approvable SPCC plans see
http://www.epa.gov/osweroe1/content/spcc/ or contact Matthew Carr of EPA at (907) 271-3616 or
Carr.Matthew@epa.gov.

For operations on BLM Managed Lands: Even when an EPA SPCC is not required a BLM spill contingency plan,
consistent with the quantity and location of the fuel used on site is required. BLM contingency plan requirements are

Indicate Distance Stored From Flowing Waters:___________________ Feet (Minimum distance from naturally occurring
water bodies required by DNR is 100 feet).

Are Fuel Containment Berms Around Storage Containers? [ ] Yes [ ] No Is Berm Area Lined? [ ] Yes [ ] No
Water use should be planned so that you will have zero discharge of water back into the stream (creek, lake, etc.), if it is at all possible. Streams must be diverted around the mining operation and most miners achieve zero discharge by setting up a 100% recycle system. Zero discharge means no water is released back into a stream either through a pipe, an overflow, by pumping, or by visible seepage through a dam or tailings filter. Underground flow or seepage through a dam or berm; will be considered a discharge if the water quality in the stream is affected as it flows past your mining operation. If groundwater from your cut and surface run-off force you to have a discharge from your settling ponds, reasonable efforts must be made to divert the water around the operation to minimize your discharge. Under no circumstances can you add make-up water if you are having a discharge.

NOTICE OF INTENT (NOI) FOR THE ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM (APDES) GENERAL PERMIT

All placer operations that discharge, or have a potential to discharge, require an APDES wastewater discharge permit. For DEC questions, contact Nick Dallman at (907) 451-2142 or nicholas.dallman@alaska.gov.

Do you want this APMA to act as an application (NOI) for the APDES general permit? [ ] Yes [ ] No

Name of waterbody into which the discharge flows, or would potentially flow: ____________________________________________________________

Mixing Zone Request

If YES, do you wish to receive a mixing zone and turbidity modification from DEC? [ ] Yes [ ] No

If a mixing zone is requested, provide the following:

Maximum Effluent Flow anticipated from your operation ____________ (GPM)  [NOTE: Maximum Effluent Flow is the most discharge you could ever have to the stream. A mixing zone and turbidity modification cannot be calculated if zero (0) is indicated for the flow.]

Topographic map that accurately shows the location of the discharge; or coordinates for the location of the discharge. Please provide coordinates in decimal degrees, NAD 83 datum. [One way to obtain this information is with the point query tool in Alaska Mapper http://dnr.alaska.gov/Mapper.]

Latitude: ____________________________________                    Longitude:______________________________

Source: _____________________________________                   Datum:_________________________________

Distance to nearest downstream use of receiving water for a Drinking water source __________ (ft.); Placer mine water intake __________ (ft.);

Placer mine water discharge __________ (ft.)

[NOTE: If distance is greater than one mile, mark "N/A".]

Certification

(Required for all DEC applicants- APDES general permit and/or Mixing Zone requests)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Responsible Party: __________________________________________________________

Responsible Party Name (First Last, Position) - Printed: __________________________________________________

Business Name (if applicable) - Printed: ________________________________________________________
STREAM BYPASS / DIVERSON

Stream By-Pass Or Diversion? [ ] Not required [ ] Existing – Date of Construction: ____________

[ ] To Be Constructed – Date of Construction: ____________

Is Stream By-Pass? [ ] Permanent [ ] Temporary (Show By-Pass on mine plan diagram)

How long will the bypass be used? ______ year(s) ______ months;

Will bypass be reclaimed annually prior to freeze-up or be retained throughout the mine life?

Annually reclaimed/returned to natural stream: [ ]   Maintained throughout mine life: [ ]

Proposed bypass dimensions:

Length: __________ Width: __________ Depth: __________

Bank Full Width of Stream Where By-Passed: __________

Approximate Floodplain Width: __________

Average stream bed material size: [ ] Bedrock [ ] Boulder [ ] Cobble [ ] Gravel [ ] Sand [ ] Silt/Clay

Natural/existing stream conditions (see diagram and descriptions below**):

A) Bank Full Top Width of Stream Where By-Passed: __________

B) Bank Full Depth of Stream Where By-Passed: __________

C) Approximate Floodplain/Floodprone Width: __________

Average stream bed material size: [ ] Bedrock [ ] Boulder [ ] Cobble [ ] Gravel [ ] Sand [ ] Silt/Clay

If by-pass is temporary provide dimensions of post temporary-by-pass / post-mining (reclaimed) stream channel:

Length: __________ Width: __________ Depth: __________

Bank Full Width of Stream: __________

Approximate Floodplain Width: __________

---

Example illustration of the components requested above.

A) Bankfull Top Width = The width of the stream at which point water begins to spill over the stream banks into the floodplain. Bankfull banks can often be identified by either a scour line near the top of the stream bank or the abrupt transition from stream bed materials to vegetation.

B) Bankfull Depth = The maximum depth of the stream, at a riffle section, if the stream was flowing full to the banks (bankfull above).

C) Floodplain/Floodprone Width = A strip of relatively smooth land, though often vegetated, bordering a stream, built of sediment carried by the stream, which overflows at discharge stages greater than the bankfull. This feature can often be identified by a change in land slope, and often vegetation type, somewhere beyond the bankfull stream banks.

For additional detail and guidance regarding stream by-pass construction and post mining stream channel reclamation, contact your local ADF&G Division of Habitat office and Technical Report No. 97-06 “Interim fish stream bypass and diversion guidelines for placer-mined watersheds.” at http://www.adfg.alaska.gov/static/home/library/pdfs/habitat/97_06.pdf
WATER USE AUTHORIZATIONS

Water usage (including water used in a 100% recycle system) may require authorization by either a Temporary Water Use Permit or a Water Rights Permit or Certificate. Information provided in the Make-Up Water Supply and Recycle/Settling Pond System sections of this application will be used to determine the quantity of water that you can be authorized to use for your mining operation.

Do you currently have a Temporary Water Use Authorization, Water Rights Permit or Certificate? [ ] Yes  [ ] No
If yes, please indicate TWUP/ADL/LAS number in section 3 of this application.
If no, please contact a Division of Mining, Land & Water, Water Resource Section in Fairbanks @ (907) 451-2790

Total quantity of water required for placer operation ___________ gallons per day (gpd)
Total number of pumps used in operation _________________________
Maximum Pump Rate for any pumps operated within a stream or lake _______ gallons per minute (gpm)
Screened Intake Structure Type: [ ] Screened Box  [ ] Screened Cylinder
Screened Intake Dimensions:
(length / width / height if screened box OR length / diameter if cylinder): _____________________
Screened Intake outer Mesh Size:___________________________

Water required for camp use  [ ] Yes  [ ] No
Quantity of water required for camp use ____________ gpd.
Camp water source: [ ] Well  [ ] Haul  [ ] Stream  [ ] Spring  [ ] Lake
Name of water source (if applicable): ________________________________________
Latitude _________________________  Longitude _____________________________  NAD 83 Datum
Or  Meridian:___________________ Township:_________________ Range:___________ Section:____________
Camp pump intake diameter ____________________________ Camp pump rate _________________ gpm
Maximum Pump Rate for any pumps operated within a stream or lake _____________ gpm
Screened Intake Structure Type: [ ] Screened Box  [ ] Screened Cylinder
Screened Intake Dimensions:
(length / width / height if screened box OR length / diameter if cylinder): _____________________
Screened Intake outer Mesh Size:____________________________

Note: A common method used for pumping rates of 30 gallons per minute or lower is to cut/drill 0.25 inch (1/4 inch) holes in the side of a 5-gallon bucket, weight it with rocks in the bottom, and secure the intake in the bucket. ADF&G will provide additional specifications depending on your specific withdrawal location. For higher pump rates consult the ADF&G webpage http://www.adfg.alaska.gov/index.cfm?adfg=uselicense.withdrawal and Technical Report No. 97-8 (http://www.adfg.alaska.gov/static/license/uselicense/pdfs/97_08.pdf) or contact your local ADF&G Division of Habitat office.
MAKE-UP WATER SUPPLY

("Make-Up Water" is that volume of water added to your settling ponds to replace water lost due to evaporation and seepage into the ground. Federal Regulations prohibit the addition of make-up water while you are having any discharge from your settling ponds.)

[ ] No Make-up Water required  [ ] start up water only to fill ponds at the start of the season. Estimated gallons._____

Source of Make-up Water:  [ ] Groundwater Gain From Cut  [ ] High Water Events From Rain
   [ ] Seepage Infiltration From Stream  [ ] Directly from Stream (Name) ________________________________
   [ ] Other: ________________________________

Location of Water Take point:
Latitude __________________________ Longitude __________________________ NAD 83 Datum
Or Meridian:__________________ Township:_________________ Range:_________________ Section:______________

NAD 83 coordinates can be obtained using Alaska Mapper http://dnr.alaska.gov/MapAK/

Method of Taking Water:  [ ] Seepage Infiltration  [ ] Pump with intake size of ________ inches
   [ ] Gravity feed – hose diameter ___________  [ ] Diversion Ditch From Stream With Headgate
   [ ] Other: _______________________________

[ ] Estimated Average Amount Of Make-up Water:___________ Gallons Per Day, or ___________gallons Per Week.
Pumping rate of __________ gallons per minute operating for __________________ hours per day
Pump intake diameter: ____________________ inches
Maximum Pump Rate for any pumps operated within a stream or lake ______________ gallons per minute

Screened Intake Structure Type:  [ ] Screened Box  [ ] Screened Cylinder
Screened Intake Dimensions:
(length / width / height if screened box OR length / diameter if cylinder): _____________________
Screened Intake outer Mesh Size:__________________

DAM (An artificial barrier used to impound or divert water)

Purpose of Dam:  [ ] Makeup Water Pond  [ ] Settling/Recycle Ponds  [ ] No Dam Required

Dam Information:  [ ] Existing  [ ] To Be Constructed  Length:______ Ft  Height:_____Ft
Width At Crest:______ Ft  Width At Base: _______Ft

RECYCLE/SETTLING POND SYSTEM (Indicate additional ponds on sketch sheet)

Beaver ponds or other natural water features will not be permitted for use as settling ponds.

Is a Pre-Settling Pond Used?:  [ ] Yes  [ ] No
Is Recycle Used?:  [ ] Yes  [ ] No
Recycle Pond Is Pond # ______

Indicate Length (L), Width (W), and Depth (D) of Each Pond:

Pond # 1:  L:______ Ft  W:______ Ft  D:______ Ft
Pond # 2:  L:______ Ft  W:______ Ft  D:______ Ft
Pond # 3:  L:______ Ft  W:______ Ft  D:______ Ft

Recycle Pump:  Return Line Size:______ inches  Estimated GPM:_________
Estimated hours per day that recycle pump will be used: ________
(Attach Additional Sheets, Along With Detailed Explanations As Necessary)

PLEASE REVIEW THE SKETCH SHEET CHECKLIST TO ENSURE THAT ALL REQUIRED ITEMS ARE INCLUDED
INCOMPLETE SKETCH SHEETS WILL CAUSE THE ENTIRE APPLICATION TO BE RETURNED
Provide a clear aerial photo of your operation. Aerial photos may be available from the following sources:
Google Earth, USGS Earth Explorer Website (http://earthexplorer.usgs.gov/), order from the University of Alaska Fairbanks GeoData Center (http://www2.gi.alaska.edu/services/geodata/ (907) 474-6166 uso@gi.alaska.edu), or from aerial photos you have taken yourself. The purpose of the photo is to clarify USACE jurisdiction. USACE has jurisdiction over mechanical clearing and placement of fill into waters of the U.S, which includes streams and wetlands. Generally, a Preliminary Jurisdictional Determination (PJD) will be made from the photo. A PJD is based on best available information, and makes a reasonable determination that there may be jurisdictional wetlands at a site. Your signature below indicates acceptance of the PJD. A PJD is not appealable.

Photo provided: [ ] Yes [ ] No

Signature of Responsible Party: _______________________________________________________________
Responsible Party Name (First Last, Position) - Printed: __________________________________________
Business Name (if applicable) - Printed: ________________________________________________________

Alternatively, you may request an Approved JD, which is an official determination that jurisdictional “waters of the United States,” are present or absent on a site. Approved JDs may be appealed. An Approved JD is recommended for operations located entirely in uplands or old tailings, without a stream diversion. Operators should request an Approved JD if they believe their operation fits this description. A letter will be provided to you if a permit is not required. Please contact USACE if you have questions or want to request an Approved JD.

Deb McAtee in Fairbanks: Debby.J.McAtee@usace.army.mil (907) 474-2166
Leslie Tose in Anchorage: Leslie.W.Tose@usace.army.mil (907) 753-2712 or (800) 478-2712

### PROJECT INFORMATION

Indicate all features on plans or topographic map)

#### ACCESS OUTSIDE OF CLAIM BLOCK (see section 17)

Access is: [ ] Existing [ ] To Be Constructed (Dimensions (length x width) ______ ) [ ] Both

#### OVERBURDEN (see section 19)

Has this site been previously mined? [ ] Yes [ ] No

Type: [ ] None [ ] Gravel, Ave. Depth: ______ Feet [ ] Organic Material, Ave. Depth: ______ Feet

#### EXPLORATION TRENCHING (see section 20)

Estimated Number of trenches to be excavated: __________
Average Size: Length:_______ Feet Width:_______ Feet Depth:_______ Feet

#### PLACER EXPLORATION DRILLING (see section 21)

Number of Holes To Be Drilled:
Estimated Maximum Depth:_______ Feet Diameter of Holes:__________ Inches
How Will Drill Holes Be Plugged Upon Completion?

#### CAMP DIMENSIONS (see section 23 Structures / Facilities)

Area of Camp: Length _______ Feet Width _______ Feet

#### STREAM BY PASS or DIVERSION (See section 27)

Stream By-Pass Or Diversion? [ ] Not required [ ] Existing – Date of Construction: __________
[ ] To Be Constructed – Date of Construction: ______________________

Is Stream By-Pass? [ ] Permanent [ ] Temporary (Show By-Pass on mine plan diagram)

How long will the bypass be used? ______ year(s) ______ months

Proposed bypass dimensions:

Length:_______ Width:_______ Depth:_______

Average stream bed material size: [ ] Bedrock [ ] Boulder [ ] Cobble [ ] Gravel [ ] Sand [ ] Silt/Clay

#### DAM (See section 30)

Purpose of Dam: [ ] Makeup Water Pond [ ] Settling/Recycle Ponds [ ] No Dam Required

Dam Information: [ ] Existing [ ] To Be Constructed Length:_______ Ft Height:_______ Ft

Width At Crest:_______ Ft Width At Base:_______ Ft
Complete and return this statement by December 31, 2012. If you did not operate, fill in name, check bottom box, sign and return form.

In accordance with AS 27.19 (Reclamation Act):

I, ___________________________________ hereby file an annual reclamation statement for the 2012 mining operation described in subject Annual Placer Mining Application. (Submission of this statement does not constitute reclamation approval.)

Volume of material disturbed in 2012: _________ cubic yards (includes strippings and processed material).

Total acreage disturbed in 2012: _________ acres. (Includes stripped areas, mining cuts, overburden and tailing stockpiles and disposal areas, temporary stream diversions, stream bypasses, and settling ponds). Federal operators should include area of camp and access roads.

Length ________ feet and Width ________ feet of stream diversion.

Stream diversion: [ ] Temporary [ ] Permanent (check one).

Total area reclaimed in 2012: __________ acres.

Total unreclaimed acres: __________. (This should match "total acreage currently disturbed" on the Reclamation/Signature page of your 2013 APMA)

For the areas reclaimed, the following reclamation measures were used (check only measures that were used). You must include photographs or videotapes of the completed reclamation work:

[ ] Spread and contoured tailings
[ ] Spread topsoil, vegetation, overburden muck or fines on the surface of contoured tailings
[ ] Reestablished flood plain with stream channel in stable position
[ ] Backfilled and reclaimed temporary stream diversions
[ ] Camp removed, cleaned up and left free of debris

Other reclamation measures taken:

_________________________________________________________________________________________________

_________________________________________________________________________________________________

_________________________________________________________________________________________________

[ ] I did not operate in 2012 and therefore did not conduct reclamation.

_________________________________                                           ___________________________
Signed                                                                                              Date

Note: Submittal of this form meets the Army Corps of Engineers requirement for an annual report

Revised: 10/2012
RECLAMATION PLAN

Check One:  [ ] RECLAMATION PLAN  [ ] LETTER OF INTENT TO DO RECLAMATION

(Mined Area 5 Acres Or Greater or BLM Notices)  (Mined Area Less Than 5 Acres)

In accordance with Alaska Statute 27.19, reclamation is required of all mining operations. Reclamation bonding is required of mining operations with a mined area (all portions of a mining operation excluding camp and roads on State or private land) of 5 acres or greater. Completion of this application will meet the requirements for a “Reclamation Plan” for operations 5 acres and larger in size and “Letter of Intent To Do Reclamation” for operations under 5 acres. **If you do not intend to use the reclamation methods presented below, please provide additional information concerning your plans for reclamation under separate attachments.**


Total acreage currently disturbed: _________ acres. This should match: “Total Unreclaimed Acres” on your 2012 Annual Reclamation Statement for Small Mines, or line #7 on your 2013 Bond Pool Renewal Form. (Disturbed ground includes stripped areas; mining cuts; overburden and tailing stockpiles and disposal areas; stream by-passes; settling ponds and any other areas disturbed since October 1991 (State mining claims or Private lands) or 1981 (Federal mining claims); and are currently unreclaimed. Federal operators include area of camp and roads.

New acres to be disturbed in 2013: _________ acres.______Total acreage (currently disturbed plus new acres): _________ acres.

Of this acreage: _________ acres are State land (general) _________ acres are State land (Mental Health) _________ acres are Private land. _________ acres are Federal land

Total acreage to be reclaimed in 2013: _________ acres; and:

[ ] Reclamation will be conducted concurrently with mining.  [ ] Reclamation will be conducted at the end of the mining season.

Total volume of material to be disturbed in 2013: _________ cubic yards. (Including strippings and overburden to be removed. (1 acre of disturbance is equal to 4,840 square yards).

**The following reclamation measures shall be used.** (These measures are required by law. Those that do not apply may be crossed out; but, an explanation must be given as to why these measures are not necessary at your site.)

- Topsoil, vegetation, and overburden muck, not promptly redistributed to an area being reclaimed, will be individually separated and stockpiled for future use. This material will be protected from erosion and from contamination by acidic or toxic materials and will not be buried by tailings.
- The area reclaimed will be reshaped to blend with the surrounding area using tailings, strippings, and overburden and be stabilized.
- Stockpiled topsoil, overburden muck, and, if necessary, settling pond silts, will be spread over the contoured mine workings to promote natural plant growth such that the area can reasonably be expected to revegetate within five years. Stockpiled vegetation will be spread over topsoils.
- Settling ponds located within the active flood plain and necessary for continued use during the next mining season will be protected from erosion or the fines removed.
- Stream channel diversions will be relocated to a stable location in the valley flood plain.
- The flood plain will be established wide enough to accommodate seasonal high water flood events and prevent undue erosional degradation.
- Exploration trenches will be backfilled. Brush piles, stumps, topsoil, and other organics will be spread on the backfilled surface to inhibit erosion and promote natural revegetation.
- All buildings and structures constructed, used or improved, on State land, will be removed, dismantled, or otherwise properly disposed of at the completion of mining. The campsite will be cleaned up and left free of debris. In consideration of potentially significant historic properties/cultural resources, please do not remove or disturb any buildings, structures, objects, or artifacts that were located on the site prior to the current operation without preauthorization from SHPO (Contact Mark Rollins of SHPO at (907) 269-8722 or mark.rollins @alaska.gov).

Other:

**IMPORTANT:**
1. Alternative reclamation measures may be approved if the reclamation measures presented above are not applicable to your site. Please explain in separate correspondence. Submit a sketch and describe additional reclamation measures you propose to conduct at your mining operation. Reclamation measures must comply with Alaska Statute 27.19.
2. Federal land managers may require reclamation measures different to those identified above.

**BONDING**

In accordance with Alaska Statute 27.19, bonding is required for all mining operations having a mined area of five acres or greater on state land. This area must be bonded for $750.00 per acre, unless the miner can demonstrate that a third party contractor can do the required reclamation for less than that amount. A Statewide bonding pool has been established and may be joined by completing the bond pool application form. Federal land managers may have additional bonding requirements. Use bond form to calculate area of disturbance for bonding.

<table>
<thead>
<tr>
<th>Printed name (Applicant)</th>
<th>Relationship to Claim(s)</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[ ] Owner  [ ] Lessee  [ ] Operator</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[ ] Agent</td>
<td></td>
</tr>
</tbody>
</table>

Signature (Applicant)
MINING PLAN NARRATIVE

MINING:
The mining operation is designed to economically recover gold and complete acceptable reclamation. The mine layout is directly related to reclamation. Mining will progress in the following steps -- see sketch:

1) A stream by-pass, 800' x 10', will be constructed on the left limit (facing downstream) of the operation. The [temporary or permanent] by-pass will be constructed to accommodate high water events (at least a 2-year flood interval) including break-up without bank erosion and will remain in place for ______ years or _______ mining seasons.

2) Vegetation, including trees, brush, tundra, etc., will be separated from topsoil and overburden gravel and stockpiled in such a manner as to avoid erosion. Stockpiles will be 200' x 25' x 15', located on the right limit of each cut.

3) Topsoil will be separated and stockpiled next to the vegetation stockpiles. A space will be maintained between the stockpiles so that topsoil can be respread before the vegetation. Each topsoil stockpile will be 200' x 25' x 15', located on the right limit of each mining cut.

4) Gravel overburden will be used to reconstruct the stream channel and cap ponds. Gravel will be stored in the following manner:
   a) Gravel from each cut will be pushed into the previously mined cut forming a dike for the next recycle pond. The dike will be constructed in such a manner that the largest portion of the pond will be immediately below the processing plant on the right limit. This places the pond sediment away from the reclaimed stream channel. The return portion of the pond will be narrow, one dozer blade width, forcing the fines to settle in the large pond area.
   b) A stockpile of gravel, 200' x 25', will be placed on the left limit of the mine cuts and used to reconstruct the stream channel in the left limit of the ponds.

5) Corse tailings will be pushed onto the pond dike and used to cap ponds.

RECLAMATION:
Reclamation will progress in the following steps:

1) Ponds will be drained slowly with care taken not to lose sediment.

2) **Reestablished streams should not run through reclaimed settling ponds!** The stream will be reestablished to the left limit of the ponds (NO streams running through the settled fine material). All sediment will be bailed out and a stable stream channel will be established using tailings stockpiled in the center and left limit of the ponds. The flood plain will be wide enough to prevent erosion during high water events and maintain fish passage. For this stream, the reconstructed flood plain will consist of a stream bed 20' wide with side banks 20' wide. The banks will have a 20:2 foot slope. The bypass will be filled and vegetation respread.

3) The remaining tailing stockpiles will be used to cap the large portion of the pond and/or stabilize any remaining pond areas from erosion. To minimize erosion, final shaping will be done across the slope rather than up and down.

4) Banks of ponds will be flattened out to allow natural revegetation and avoid erosional degradation. The banks will have a slope of 20:1 feet.

5) Topsoil will then be respread over the tailings.

6) Finally, vegetation will be respread over topsoil. The vegetation will trap seeds and moisture as well as reduce erosion.

*** EXAMPLE ***
INSTRUCTIONS FOR COMPLETING PLAN MAP AND DESCRIPTION OF OPERATION
SUBMIT ONLY SCALE DRAWINGS.

This checklist is provided to assist you in the completion of your plan map. Sketch your complete mining and reclamation plans in detail, and include written descriptions of your planned operation, as necessary, including reclamation plans, to provide reviewing agencies an understanding of your proposed sequence of mining activities for the mining season. BLM Operations include Supplements A – Performance Standards Checklist, B – Water Management Plan, C – Placer Reclamation Plan, and D – Seasonal or Temporary Closure Plan.

SKETCH CHECKLIST
INCLUDE EACH OF THE FOLLOWING ITEMS IN YOUR SKETCH – IF AN ITEM DOES NOT APPLY, INDICATE BY “N/A”

[ ] CLAIM LOCATIONS -- indicate claim name, ADL/BLM number, boundary lines and corner posts.

[ ] MINING CUTS -- indicate location, dimensions (lengths, widths and depths), and sequence of mining; indicate active vs. planned cuts; and areas currently stripped vs. areas you are planning to strip.

[ ] OVERBURDEN STOCKPILES -- indicate material type, location and dimensions (lengths and widths).

[ ] TAILINGS DISPOSAL AREAS -- indicate temporary stockpiles and describe your proposed methods for permanent disposal, including location (where?, when? and how?)

[ ] SETTLING PONDS -- indicate location and dimensions (lengths, widths and depths), number each pond as in Section (32) of this APMA indicate your recycle system, including pump and line from pond to plant; also, indicate the direction of water flow through your pond system and the location and estimated quantity of any discharge.

[ ] MAKE-UP WATER and/or CAMP WATER -- indicate location of pump, line, or headgate and ditch. Describe method used to prevent fish entrapment.

[ ] STREAM -- indicate location, name of drainage, direction of flow, and width of original channel.

[ ] STREAM BY-PASSES -- indicate location, dimensions (lengths, widths and depths), and direction of water flow.

[ ] AREAS TO BE RECLAIMED -- indicate location and dimensions (lengths and widths).

[ ] PREVIOUSLY RECLAIMED AREAS -- indicate locations.

[ ] FUEL STORAGE AREA -- indicate location with respect to stream and active mining area -- include distance from flowing waters.

[ ] CAMP FACILITIES or STRUCTURES -- indicate location and describe size, type, and purpose of each structure (Federal operators should indicate the approximate length and width of the camp area).

[ ] SANITARY AND SOLID WASTE -- indicate location and method of disposal (i.e., outhouse; trash collection; etc.).

[ ] NORTH ARROW -- indicate the direction of north with respect to your operation.

[ ] SCALE BAR -- include a scale bar on the drawing.

[ ] SIZE OF VALLEY -- indicate, with dotted lines, the approximate width of the valley floor.

[ ] ACCESS -- indicate type and location of existing access to the claims and specifically to the exploration area (Federal operators should include length and width of access); indicate type and location of proposed construction of new access including length, width and distribution of fill if fill would be placed in wetlands, ponds, streams, or other waters of the U.S. List all named and unnamed streams crossed during cross country travel.

Please make one final review of the plan map checklist to make certain that you included everything.

INCOMPLETE PLAN MAPS WILL CAUSE THE ENTIRE APMA TO BE RETURNED
Example of Access Map
PLEASE REVIEW THE SKETCH SHEET CHECKLIST TO ENSURE THAT ALL REQUIRED ITEMS ARE INCLUDED

INCOMPLETE SKETCH SHEETS WILL CAUSE THE ENTIRE APMA TO BE RETURNED
CROSS SECTIONS
A cross-section is a “slice” through an area of ground which shows the vertical dimensions of slopes, layers and other features related to the mining operation.
To draw a cross-section, first define a line across an area of the mining operation where typical mining activity will occur. The line should cross the entire width of the operation. Next, draw the cross-sectional view along the line. Finally, label all components and include dimensions.

(Attach Additional Sheets, Along With Detailed Explanations As Necessary)
PLEASE REVIEW THE SKETCH SHEET CHECKLIST TO ENSURE THAT ALL REQUIRED ITEMS ARE INCLUDED
INCOMPLETE SKETCH SHEETS WILL CAUSE THE ENTIRE APMA TO BE RETURNED