MINING PLAN OF OPERATIONS AND RECLAMATION

For:

enter quarry name

enter quarry address

enter city, state, zip code

Material Site Manager Contact(s):

enter entity name

enter representative name

enter entity address

enter city, state zip code

 enter representative phone number

enter representative email address

Plan Date:

Date

[Revision enter Rev #]

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APPENDICES

Appendix 1 FIGURES

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Appendix 3 SUPPORTING DATA

# EXISTING CONDITIONS

## Site Location Information

|  |  |
| --- | --- |
| Legal Description: | enter info |
| Source: | enter info |
| Latitude: | enter info (specify units) |
| Longitude: | enter info (specify units) |
| Method for determining latitude/longitude (check one): |
| [ ]  USGS topographic map (specify scale: ) | [ ]  GPS |
| [ ]  Google Earth | [ ]  Other (please specify): \_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |
| Mining period (number of years) covered under this Plan: | enter info |
| Existing acreage of mined area (including disturbed land that has not yet been reclaimed, but counting only acreage **disturbed after October 15, 1991**: |
| enter info |
| Estimated area of mining activity/ground to be disturbed in **a single year**: |
| enter info |
| **Note**: All ground disturbance is within the current pit boundary, so no additional native ground disturbance is required |
| Estimate total **volume** of material to be mined or disturbed in **a single year**, including overburden:  |
| enter info |
| Type of material to be mined: | enter info |

## Site Ownership and Management

|  |
| --- |
| **Facility Landowner:** |
| Company/Entity:  | enter info |
| Address:  | enter info |
| City, State, Zip Code:  | enter info |
| Primary Point of Contact:  | enter info |
| Telephone Number:  | enter info |
| Email Address:  | enter info |

|  |
| --- |
| **Local Manager:** |
| Company/Entity:  | enter info |
| Address:  | enter info |
| City, State, Zip Code:  | enter info |
| Primary Point of Contact:  | enter info |
| Telephone Number:  | enter info |
| Email Address:  | enter info |

|  |
| --- |
| **Is there an Operator, other than NRC or the Local Manager, who will mine and/or move earth at the site?** |
| [Enter info: see instructions] |

|  |
| --- |
| **Operator Information:** |
| Company/Entity:  | enter info |
| Address:  | enter info |
| City, State, Zip Code:  | enter info |
| Primary Point of Contact:  | enter info |
| Telephone Number:  | enter info |
| Email Address:  | enter info |

|  |
| --- |
| **Materials Management Agreement (MMA) Information:** |
| Is an NRC Agreement in effect?  | Yes/No |
| If YES, complete the following: |
| Agreement Number:  | Insert Agreement Number |
| Date Signed: | Date |  | Effective Through: | Date |
| Maximum allowable volume of material to be mined (if applicable):  | 350,000 CY |

## Overview and General Summary of the Mining Operation

[Enter info: see instructions]

## Site Data

Refer to the figures included in Appendix 1 for available site data. A list of the figures included in Appendix 1and referenced throughout this report are included in Table 1.

Table 1: List of figures included in Appendix 1

|  |  |
| --- | --- |
| Figure 1 | figure name |
| Figure 2 | figure name |
| Figure 3 | figure name |

[Enter info: see instructions]

## Activities at the Facility

[Enter info: see instructions]

**NRC SPILL REPORTING CONTACT:** 24-hour spill reporting hotline, (907) 265-3749

# DETAILED MINING OPERATIONS

## Geologic Composition and Depth of Mineral Deposit

[Enter info: see instructions]

## Existing Topography

[Enter info: see instructions].

## Site Vegetation

[Enter info: see instructions]

## Groundwater Information

[Enter info: see instructions]

## Surface Waters & Site Drainage

[Enter info: see instructions]

## Areal Extent and Phasing of Operations

Table 2: Gravel demand assessment, CY

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Project (est. year) | year | year | year | year | year | year+ |
| project name | volume (CY) | volume (CY) | volume (CY) | volume (CY) | volume (CY) | volume (CY) |
| project name | volume (CY) | volume (CY) | volume (CY) | volume (CY) | volume (CY) | volume (CY) |
| project name | volume (CY) | volume (CY) | volume (CY) | volume (CY) | volume (CY) | volume (CY) |
| TOTAL | volume (CY) | volume (CY) | volume (CY) | volume (CY) | volume (CY) | volume (CY) |

[Enter info: see instructions]

### Mining Phase number

[Enter info: see instructions]

[Enter additional phases, if applicable]

# POST-MINING LAND USE AND RECLAMATION

|  |
| --- |
| Total acreage that will be reclaimed during the year (or each year, for multi-year reclamation plan):  |
| enter # acres/year |

Table 3**Error! Reference source not found.** provides a list of equipment (type & quantity) to be used during the reclamation operation:

Table 3: Operations equipment list

|  |  |
| --- | --- |
| **Equipment Type** | **# of Units** |
| Make, modle, capacity | enter info |
| Make, modle, capacity | enter info |
| Make, modle, capacity | enter info |
| Make, modle, capacity | enter info |
| Make, modle, capacity | enter info |

[Enter info: see instructions]

Table 4: Reclamation Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Reclamation Area ID** | **Anticipated Schedule** | **After Mining Phase** | **Approximate Area**  |
| enter info | enter start/end year | enter info | enter info |
| enter info | enter start/end year | enter info | enter info |
| enter info | enter start/end year | enter info | enter info |
| TOTAL | -- | -- | enter info |

## Reclamation Guidelines

### Reclamation Area 1 (RA-number)

[Enter info: see instructions]

[Enter additional reclamation areas, if applicable]

## Interim Reclamation

[Enter info: see instructions]

## Earthwork: Final Grading & Slopes

[Enter info: see instructions]

## Permanent Structures

[Enter info: see instructions]

## Revegetation Plan

[Enter info: see instructions]

## Revegetation Standards

[Enter info: see instructions]

# INSPECTIONS AND SITE MAINTENANCE

## Follow-up Inspections

[Enter info: see instructions]

### Stormwater Inspections

[Enter info, if applicable]

### Annual Site Inspections

Entity name is required to perform an initial site inspection prior to the beginning of mining each year. The initial inspection will document site stability, erosion, sloughing, highwalls, standing water, and any other environmental or safety issue that develop during closure months. Inspections will be recorded on an Initial/Start of Season Inspection Form and maintained on-site in the Local Manager’s office. A sample of this form is located in Appendix 2.

### Other Inspections

Employees of entity name and/or hired contractors that work at the quarry name will be required by MSHA to perform and record daily site inspections to ensure a safe workspace. Other safety inspections or reports, such as routine mining equipment inspections and accident reporting, are required. The entity name is responsible for ensuring all employees and contractors understand and meet these requirements to continue operations.

### Final Closure Inspections

After final reclamation is complete, entity name will be responsible for monthly follow-up inspections during the first season the pit is closed, continuing until fall freeze-up. The inspector will observe and document the success of revegetation, signs of wind and water erosion, effectiveness of sediment control devices, and characteristics of surface water discharge. After the first season, inspections will be scheduled during spring thaw, mid-summer, and fall freeze-up for up to 5 years after final reclamation to verify site stability. Additional inspections may be needed and will depend on the success of reclamation. Site revegetation is typically considered stable when no additional seed or fertilizer applications are necessary to maintain vegetative cover. All final reclamation inspections will be recorded and maintained on-site for a minimum of 2 years after final site closure. A sample of the Final Closure Inspection form is located in Appendix 2. All records must be presented to NRC upon request, within 10 business days of the request.

## Site Maintenance

[Enter info: see instructions]

# SITE CLOSURE

## Final Site Actions

At mine closure, entity name is responsible for removing all mining and erosion control related features, including structures, equipment, garbage, etc. Failure to complete final site actions may result in financial penalties to entity name. Site closure may require ADNR and/or NRC inspection. Any findings from ADNR’s and/or NRC’s inspection(s) must be resolved as quickly as possible by the Local Manager.

[Enter info: see instructions]

## Criteria for Successful Reclamation

[Enter info: see instructions]

## Financial Assurances

[Enter info: see instructions]

# CERTIFICATION OF THE RECLAMATION PLAN

I hereby certify, as an authorized representative of the entity name, that entity name will comply with the provisions of this reclamation plan as well as the reclamation requirements established in Alaska Statute A.S. 27.19.

|  |  |  |
| --- | --- | --- |
| Entity Representative |  | Title |
| Signature |  | Date |

**This section is required if the landowner or lessee of the property is different from the operator indicated above.**

I/we,as thelandowner(s) or lessee(s) of the property described herein, do hereby certify that I/we have reviewed thereclamation plan submitted byentity name, concur withits provisions, and agree to permit its implementation.

|  |  |  |
| --- | --- | --- |
| Authorized NRC Representative |  | Title |
| Signature |  | Date |

# PLAN MODIFICATIONS

Table 5: Plan Amendment Log

|  |  |  |  |
| --- | --- | --- | --- |
| **Amendment No.** | **Description of Amendment** | **Amendment Date** | **Amended By** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# REFERENCES

[Enter info: see instructions]

1. FIGURES

[Complete table: see instructions]

Figure 1: Figure Name

Figure 2: Figure Name

Figure 3: Figure Name

1. FORMS

[Complete table: see instructions]

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. SUPPORTING DATA

[Complete table: see instructions]

|  |  |
| --- | --- |
| item # | description |
| item # | description |
| item # | description |