

## AIR QUALITY PERMIT

Issued To: Lonnie Knutson  
1520 Ashley Road  
Kalispell, MT 59901

Permit: #3390-00  
Application Complete: 05/09/05  
Preliminary Determination Issued: 05/23/05  
Department's Decision Issued: 06/08/05  
Permit Final: 06/24/05  
AFS #: 777-3390

An air quality permit, with conditions, is hereby granted to Lonnie Knutson (Knutson) pursuant to Sections 75-2-204 and 211 of the Montana Code Annotated (MCA), as amended, and Administrative Rules of Montana (ARM) 17.8.740, *et seq.*, as amended, for the following:

### SECTION I: Permitted Facilities

#### A. Permitted Equipment

Knutson operates a portable 1962 Pioneer jaw crushing unit with an attached 2-deck screen and an apron feeder. The crushing/screening unit is powered by a 300-horsepower (Hp) diesel-fired Caterpillar 3406 power plant and associated 100-kilowatt (kW) Klassen Gen-Set.

#### B. Plant Location

Permit #3390-00 applies while operating at any location in Montana, except those areas having a Department of Environmental Quality (Department)-approved permitting program, areas considered tribal lands, or areas in or within 10 kilometers (km) of certain particulate matter with an aerodynamic diameter of 10 microns or less (PM<sub>10</sub>) nonattainment areas. *A Missoula County air quality permit will be required for locations within Missoula County, Montana.* Addendum #1 will apply while operating at any locations in or within 10 km of certain PM<sub>10</sub> nonattainment areas.

### SECTION II: Conditions and Limitations

#### A. Emission Limitations

1. All visible emissions from any non-Standards of Performance for New Stationary Sources (NSPS) affected equipment, including, but not limited to, the 1962 Pioneer jaw crushing unit, attached 2-deck screen, and attached apron feeder, shall not exhibit an opacity of 20% or greater averaged over 6-consecutive minutes (ARM 17.8.304).
2. Water and spray bars shall be available on site at all times and operated as necessary to maintain compliance with the opacity limitations in Sections II.A.1 (ARM 17.8.749).
3. Knutson shall not cause or authorize the use of any street, road or parking lot without taking reasonable precautions to control emissions of airborne particulate matter (ARM 17.8.308).
4. Knutson shall treat all unpaved portions of the haul roads, access roads, parking lots, or the general plant area with water and/or chemical dust suppressant, as necessary, to maintain compliance with the reasonable precautions limitation in Section II.A.3 (ARM 17.8.749).

5. If the permitted equipment is used in conjunction with any other equipment owned or operated by Knutson, at the same site, production shall be limited to correspond with an emission level that does not exceed 250 tons during any rolling 12-month period. Any calculations used to establish production levels shall be approved by the Department (ARM 17.8.749).

B. Testing Requirements

1. All compliance source tests shall conform to the requirements of the Montana Source Test Protocol and Procedures manual (ARM 17.8.106).
2. The Department may require testing (ARM 17.8.105).

C. Operational Reporting Requirements

1. If this crushing/screening plant is moved to another location, an Intent to Transfer form must be sent to the Department. In addition, a Public Notice Form for Change of Location must be published in a newspaper of general circulation in the area to which the transfer is to be made, at least 15 days prior to the move. The Intent to Transfer form and the proof of publication (affidavit) of the Public Notice Form for Change of Location must be submitted to the Department prior to the move. These forms are available from the Department (ARM 17.8.765).
2. Knutson shall supply the Department with annual production information for all emission points, as required by the Department in the annual emission inventory request. The request will include, but not be limited to, all sources of emissions identified in the emission inventory contained in the permit analysis.

Production information shall be gathered on a calendar-year basis and submitted to the Department by the date required in the emission inventory request. Information shall be in the units required by the Department. This information may be used for calculating operating fees, based on actual emissions from the facility, and/or to verify compliance with permit limitations (ARM 17.8.505).

3. Knutson shall notify the Department of any construction or improvement project conducted, pursuant to ARM 17.8.745, that would include a change in control equipment, stack height, stack diameter, stack flow, stack gas temperature, source location, or fuel specifications, or would result in an increase in source capacity above its permitted operation or the addition of a new emission unit. The notice must be submitted to the Department, in writing, 10 days prior to startup or use of the proposed de minimis change, or as soon as reasonably practicable in the event of an unanticipated circumstance causing the de minimis change, and must include the information requested in ARM 17.8.745(1)(d) (ARM 17.8.745).
4. Knutson shall maintain on-site records showing daily hours of operation and daily production rates for the last 12 months. The records compiled in accordance with this permit shall be maintained by Knutson as a permanent business record for at least 5 years following the date of the measurement, must be available at the plant site for inspection by the Department, and must be submitted to the Department upon request (ARM 17.8.749).

D. Notification

Within 15 days of actual start-up of the equipment covered under Permit #3390-00, Knutson shall submit written notification to the Department of the initial start-up date of the equipment (ARM 17.8.749).

SECTION III: General Conditions

- A. Inspection – Knutson shall allow the Department's representatives access to the source at all reasonable times for the purpose of making inspections or surveys, collecting samples, obtaining data, auditing any monitoring equipment (CEMS, CERMS) or observing any monitoring or testing, and otherwise conducting all necessary functions related to this permit.
- B. Waiver – The permit and all the terms, conditions, and matters stated herein shall be deemed accepted if Knutson fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations – Nothing in this permit shall be construed as relieving Knutson of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided for in ARM 17.8.740, *et seq.* (ARM 17.8.756)
- D. Enforcement – Violations of limitations, conditions and requirements contained herein may constitute grounds for permit revocation, penalties or other enforcement as specified in Section 75-2-401, *et seq.*, MCA.
- E. Appeals – Any person or persons jointly or severally adversely affected by the Department's decision may request, within 15 days after the Department renders its decision, upon affidavit setting forth the grounds therefore, a hearing before the Board of Environmental Review (Board). A hearing shall be held under the provisions of the Montana Administrative Procedures Act. The filing of a request for a hearing does not stay the Department's decision, unless the Board issues a stay upon receipt of a petition and a finding that a stay is appropriate under Section 75-2-211(11)(b), MCA. The issuance of a stay on a permit by the Board postpones the effective date of the Department's decision until conclusion of the hearing and issuance of a final decision by the Board. If a stay is not issued by the Board, the Department's decision on the application is final 16 days after the Department's decision is made.
- F. Permit Inspection – As required by ARM 17.8.755, Inspection of Permit, a copy of the air quality permit shall be made available for inspection by Department personnel at the location of the permitted source.
- G. Permit Fee – Pursuant to Section 75-2-220, MCA, as amended by the 1991 Legislature, failure to pay the annual operation fee by Knutson may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.
- H. Construction Commencement – Construction must be begun within 3 years of permit issuance and proceed with due diligence until the project is complete or the permit shall be revoked (ARM 17.8.762).

- I. The Department may modify the conditions of this permit based on local conditions of any future site. These factors may include, but are not limited to, local terrain, meteorological conditions, proximity to residences, etc.
  
- J. Knutson shall comply with the conditions contained in this permit while operating in any location in Montana, except within those areas that have a Department-approved permitting program.

Permit Analysis  
Lonnie Knutson  
Permit #3390-00

I. Introduction/Process Description

A. Permitted Equipment

Lonnie Knutson (Knutson) operates a non-Standards of Performance for New Stationary Sources (NSPS) affected portable 1962 Pioneer jaw crushing unit with an attached 2-deck screen and an apron feeder. The crushing/screening unit is powered by a 300 horsepower (Hp) diesel-fired Caterpillar 3406 power plant and associated 100-kilowatt (kW) Klassen Gen-Set. The facility is originally located in Section 24, Township 28 North, Range 23 West, in Flathead County, Montana.

B. Source Description

Typical operations begin by loading the sand and gravel material to be processed into the apron feeder. From the apron feeder, materials are sent to the screen and then on to the jaw crusher and finally conveyed to a pile for use in various construction activities.

II. Applicable Rules and Regulations

The following are partial explanations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the Administrative Rules of Montana (ARM) and are available, upon request, from the Department of Environmental Quality (Department). Upon request, the Department will provide references for location of complete copies of all applicable rules and regulations or copies where appropriate.

A. ARM 17.8, Subchapter 1 – General Provisions, including, but not limited to:

1. ARM 17.8.101 Definitions. This rule includes a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
2. ARM 17.8.105 Testing Requirements. Any person or persons responsible for the emission of any air contaminant into the outdoor atmosphere shall, upon written request of the Department, provide the facilities and necessary equipment (including instruments and sensing devices) and shall conduct tests, emission or ambient, for such periods of time as may be necessary using methods approved by the Department.
3. ARM 17.8.106 Source Testing Protocol. The requirements of this rule apply to any emission source testing conducted by the Department, any source, or other entity as required by any rule in this chapter, or any permit or order issued pursuant to this chapter, or the provisions of the Clean Air Act of Montana, 75-2-101, *et seq.*, Montana Code Annotated (MCA).

Knutson shall comply with the requirements contained in the Montana Source Test Protocol and Procedures Manual, including, but not limited to, using the proper test methods and supplying the required reports. A copy of the Montana Source Test Protocol and Procedures Manual is available from the Department upon request.

4. ARM 17.8.110 Malfunctions. (2) The Department must be notified promptly by telephone whenever a malfunction occurs that can be expected to create emissions in excess of any applicable emission limitation or to continue for a period greater than 4 hours.
5. ARM 17.8.111 Circumvention. (1) No person shall cause or permit the installation or use of any device or any means that, without resulting in reduction of the total amount of air contaminant emitted, conceals or dilutes an emission of air contaminant that would otherwise violate an air pollution control regulation. (2) No equipment that may produce emissions shall be operated or maintained in such a manner as to create a public nuisance.

B. ARM 17.8, Subchapter 2 – Ambient Air Quality, including, but not limited to:

1. ARM 17.8.210 Ambient Air Quality Standards for Sulfur Dioxide
2. ARM 17.8.211 Ambient Air Quality Standards for Nitrogen Dioxide
3. ARM 17.8.212 Ambient Air Quality Standards for Carbon Monoxide
4. ARM 17.8.220 Ambient Air Quality Standard for Settled Particulate Matter
5. ARM 17.8.223 Ambient Air Quality Standard for PM<sub>10</sub>

Knutson must maintain compliance with the applicable ambient air quality standards.

C. ARM 17.8, Subchapter 3 – Emission Standards, including, but not limited to:

1. ARM 17.8.304 Visible Air Contaminants. This rule requires that no person may cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes.
2. ARM 17.8.308 Particulate Matter, Airborne. (1) This rule requires an opacity limitation of less than 20% for all fugitive emission sources and that reasonable precautions be taken to control emissions of airborne particulate matter. (2) Under this rule, Knutson shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne particulate matter.
3. ARM 17.8.309 Particulate Matter, Fuel Burning Equipment. This rule requires that no person shall cause or authorize to be discharged into the atmosphere particulate matter caused by the combustion of fuel in excess of the amount determined by this section.
4. ARM 17.8.310 Particulate Matter, Industrial Process. This rule requires that no person shall cause or authorize to be discharged into the atmosphere particulate matter in excess of the amount set forth in this section.
5. ARM 17.8.322 Sulfur Oxide Emissions--Sulfur in Fuel. This rule requires that no person shall burn liquid, solid, or gaseous fuel in excess of the amount set forth in this section.
6. ARM 17.8.324 Hydrocarbon Emissions--Petroleum Products. (3) No person shall load or permit the loading of gasoline into any stationary tank with a capacity of 250 gallons or more from any tank truck or trailer, except through a permanent submerged fill pipe, unless such tank truck or trailer is equipped with a vapor loss control device as described in (1) of this rule.

7. ARM 17.8.340 Standard of Performance for New Stationary Sources. This rule incorporates, by reference, 40 CFR 60, NSPS. This facility is not an NSPS affected source because it does not meet the definition of any NSPS subpart defined in 40 CFR 60.
- D. ARM 17.8, Subchapter 5 – Air Quality Permit Application, Operation, and Open Burning Fees, including, but not limited to:
1. ARM 17.8.504 Air Quality Permit Application Fees. This rule requires that an applicant submit an air quality permit application fee concurrent with the submittal of an air quality permit application. A permit application is incomplete until the proper application fee is paid to the Department. Knutson submitted the appropriate permit application fee for the current permit action.
  2. ARM 17.8.505 Air Quality Operation Fees. An annual air quality operation fee must, as a condition of continued operation, be submitted to the Department by each source of air contaminants holding an air quality permit, excluding an open burning permit, issued by the Department; the air quality operation fee is based on the actual or estimated actual amount of air pollutants emitted during the previous calendar year.  
  
An air quality operation fee is separate and distinct from an air quality permit application fee. The annual assessment and collection of the air quality operation fee, described above, shall take place on a calendar-year basis. The Department may insert into any final permit issued after the effective date of these rules, such conditions as may be necessary to require the payment of an air quality operation fee on a calendar-year basis, including provisions that pro-rate the required fee amount.
- E. ARM 17.8, Subchapter 7 – Permit, Construction, and Operation of Air Contaminant Sources, including, but not limited to:
1. ARM 17.8.740 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
  2. ARM 17.8.743 Montana Air Quality Permits--When Required. This rule requires a person to obtain an air quality permit or permit alteration to construct, alter, or use any asphalt plant, crusher, or screen that has the Potential to Emit (PTE) greater than 15 tons per year of any pollutant. Knutson has a PTE greater than 15 tons per year of particulate matter (PM), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM<sub>10</sub>), and oxides of nitrogen (NO<sub>x</sub>); therefore, an air quality permit is required.
  3. ARM 17.8.744 Montana Air Quality Permits--General Exclusions. This rule identifies the activities that are not subject to the Montana Air Quality Permit program.
  4. ARM 17.8.745 Montana Air Quality Permits--Exclusion for De Minimis Changes. This rule identifies the de minimis changes at permitted facilities that do not require a permit under the Montana Air Quality Permit Program.
  5. ARM 17.8.748 New or Modified Emitting Units--Permit Application Requirements.  
(1) This rule requires that a permit application be submitted prior to installation, alteration, or use of a source. Knutson submitted the required permit application for the current permit action. (7) This rule requires that the applicant notify the public by

means of legal publication in a newspaper of general circulation in the area affected by the application for a permit. Knutson submitted an affidavit of publication of public notice for the April 17, 2005, issue of the *Daily Inter Lake*, a newspaper of general circulation in the Town of Kalispell in Flathead County, Montana, as proof of compliance with the public notice requirements.

6. ARM 17.8.749 Conditions for Issuance or Denial of Permit. This rule requires that the permits issued by the Department must authorize the construction and operation of the facility or emitting unit subject to the conditions in the permit and the requirements of this subchapter. This rule also requires that the permit must contain any conditions necessary to assure compliance with the Federal Clean Air Act (FCAA), the Clean Air Act of Montana, and rules adopted under those acts.
7. ARM 17.8.752 Emission Control Requirements. This rule requires a source to install the maximum air pollution control capability that is technically practicable and economically feasible, except that BACT shall be utilized. The required BACT analysis is included in Section III of this permit analysis.
8. ARM 17.8.755 Inspection of Permit. This rule requires that air quality permits shall be made available for inspection by the Department at the location of the source.
9. ARM 17.8.756 Compliance with Other Requirements. This rule states that nothing in the permit shall be construed as relieving Knutson of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.740, *et seq.*
10. ARM 17.8.759 Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those permit applications that do not require the preparation of an environmental impact statement.
11. ARM 17.8.762 Duration of Permit. An air quality permit shall be valid until revoked or modified, as provided in this subchapter, except that a permit issued prior to construction of a new or altered source may contain a condition providing that the permit will expire unless construction is commenced within the time specified in the permit, which in no event may be less than 1 year after the permit is issued.
12. ARM 17.8.763 Revocation of Permit. An air quality permit may be revoked upon written request of the permittee, or for violations of any requirement of the Clean Air Act of Montana, rules adopted under the Clean Air Act of Montana, the FCAA, rules adopted under the FCAA, or any applicable requirement contained in the Montana State Implementation Plan (SIP).
13. ARM 17.8.764 Administrative Amendment to Permit. An air quality permit may be amended for changes in any applicable rules and standards adopted by the Board of Environmental Review (Board) or changed conditions of operation at a source or stack that do not result in an increase of emissions as a result of those changed conditions. The owner or operator of a facility may not increase the facility's emissions beyond permit limits unless the increase meets the criteria in ARM 17.8.745 for a de minimis change not requiring a permit, or unless the owner or operator applies for and receives another permit in accordance with ARM 17.8.748, ARM 17.8.749, ARM 17.8.752, ARM 17.8.755, and ARM 17.8.756, and with all applicable requirements in ARM Title 17, Chapter 8, Subchapters 8, 9, and 10.



14. ARM 17.8.765 Transfer of Permit. (1) This rule states that an air quality permit may be transferred from one location to another if the Department receives a complete notice of Intent to Transfer location, the facility will operate in the new location for less than 1 year, the facility will comply with the FCAA and the Clean Air Act of Montana, and the facility complies with other applicable rules. (2) This rule states that an air quality permit may be transferred from one person to another if written notice of Intent to Transfer, including the names of the transferor and the transferee, is sent to the Department.

F. ARM 17.8, Subchapter 8 - Prevention of Significant Deterioration of Air Quality, including, but not limited to:

1. ARM 17.8.801 Definitions. This rule is a list of applicable definitions used in this subchapter.
2. ARM 17.8.818 Review of Major Stationary Sources and Major Modification--Source Applicability and Exemptions. The requirements contained in ARM 17.8.819 through ARM 17.8.827 shall apply to any major stationary source and any major modification with respect to each pollutant subject to regulation under the FCAA that it would emit, except as this subchapter would otherwise allow.

This facility is not a major stationary source since it is not a listed source and the facility's PTE is less than 250 tons per year of any pollutant (excluding fugitive emissions).

G. ARM 17.8, Subchapter 12 – Operating Permit Program Applicability, including, but not limited to:

1. ARM 17.8.1201 Definitions. (23) Major Source under Section 7412 of the FCAA is defined as any stationary source having:
  - a. PTE > 100 tons/year of any pollutant
  - b. PTE > 10 tons/year of any one Hazardous Air Pollutant (HAP), PTE > 25 tons/year of a combination of all HAPs, or lesser quantity as the Department may establish by rule, or
  - c. PTE > 70 tons/year of particulate matter with an aerodynamic diameter of 10 microns or less (PM<sub>10</sub>) in a serious PM<sub>10</sub> nonattainment area.
2. ARM 17.8.1204 Air Quality Operating Permit Program Applicability. (1) Title V of the FCAA Amendments of 1990 requires that all sources, as defined in ARM 17.8.1204 (1), obtain a Title V Operating Permit. In reviewing and issuing Air Quality Permit #3390-00 for Knutson, the following conclusions were made:
  - a. The facility's PTE is less than 100 tons/year for any pollutant.
  - b. The facility's PTE is less than 10 tons/year for any one HAP and less than 25 tons/year of all HAPs.
  - c. This source is not located in a serious PM<sub>10</sub> nonattainment area.
  - d. This facility is not subject to any current NSPS.

- e. This facility is not subject to any current NESHAP standards.
- f. This source is not a Title IV affected source nor a solid waste combustion unit.
- g. This source is not an EPA designated Title V source.

Based on these facts, the Department has determined that Knutson is a minor source of emissions as defined under Title V.

### III. BACT Determination

BACT determination is required for any new or altered source. Knutson shall install on the new or altered source the maximum air pollution control capability that is technologically practicable and economically feasible, except that BACT shall be used.

#### A. Area Source Fugitive PM/PM<sub>10</sub> Emissions and Crushing/Screening PM/PM<sub>10</sub> Emissions

Two types of emissions controls are readily available and used for dust suppression of fugitive emissions at the site, fugitive emissions for the surrounding area of operations, and for equipment emissions from the crushing/screening operation. These two control methods are water and chemical dust suppressant. Chemical dust suppressant could be used for dust suppression on the area surrounding the crushing/screening operation and for emissions from the crushing/screening operation. However, because water is more readily available, is more cost effective, is equally effective as chemical dust suppressant, and is more environmentally friendly, water has been identified as the most appropriate method of pollution control of particulate emissions for the general plant area. In addition, water suppression has been required of recently permitted similar sources. However, Knutson may use chemical dust suppressant to assist in controlling particulate emissions from the surrounding plant area where it would assist in reducing emissions of particulate matter.

Knutson shall not cause or authorize to be discharged into the atmosphere from any crusher, screen, or associated equipment any visible emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes. Knutson must also take reasonable precautions to limit the fugitive emissions of airborne particulate matter from haul roads, access roads, parking areas, and the general area of operation. Knutson is required to have water spray bars and water available on site (at all times) and to apply the water, as necessary, to maintain compliance with the opacity and reasonable precaution limitations. Knutson may also use chemical dust suppression to maintain compliance with emissions limitations in Section I.A of Permit #3390-00. The Department determined that using water spray bars, water, and/or chemical dust suppressant to maintain compliance with the opacity requirements and reasonable precaution limitations constitutes BACT for the crushing/screening operation.

#### B. Diesel Generators

Because of the limited amount of emissions produced by the diesel generator/engine and the lack of readily available/cost effective add-on controls, add-on controls would be cost prohibitive. Therefore, the Department determined that proper operation and maintenance with no additional controls would constitute BACT for the diesel generator/engine.

The control options required for the proposed crushing/screening facility and for the diesel generator/engine that would be used to power the facility are similar to other recently permitted similar sources.

IV. Emission Inventory

Source	tons/year					
	PM	PM <sub>10</sub>	NO <sub>x</sub>	VOC	CO	SO <sub>x</sub>
1962 Pioneer Jaw Crusher (Capacity 70 ton/hr)	0.77	0.37	0.00	0.00	0.00	0.00
2-Deck Screen (Capacity 70 ton/hr)	4.83	2.30	0.00	0.00	0.00	0.00
Material Transfer (4 Material Transfers @ 70 TPH)	1.78	0.86	0.00	0.00	0.00	0.00
Pile Forming (2 Piles @ 70 TPH)	2.58	1.23	0.00	0.00	0.00	0.00
Bulk Loading (70 TPH)	1.29	0.61	0.00	0.00	0.00	0.00
Engine/Generator (up to 300-Horsepower)	2.89	2.89	40.73	3.25	8.78	2.69
Haul Roads	2.74	1.23	0.00	0.00	0.00	0.00
<b>Total</b>	<b>16.87</b>	<b>9.49</b>	<b>40.73</b>	<b>3.25</b>	<b>8.78</b>	<b>2.69</b>

- A complete emission inventory for Permit #3390-00 is on file with the Department.

V. Air Quality Impacts

Based on the relatively small amount of emissions resulting from the Knutson operation and the limits and conditions that would be included in Permit #3390-00, the Department believes that the allowable/permitted emissions from this source would not cause or contribute to an exceedance of any ambient air quality standard while operating in areas classified as attainment or unclassified for the ambient air quality standards. Further, Addendum #1 to Permit #3390-00 would cover this portable crushing/screening plant while operating in or within 10 km of certain PM<sub>10</sub> nonattainment areas and would include more stringent requirements for operating within these areas. The Department believes, based on ambient air dispersion modeling conducted for Knutson operations locating in or within 10 km of certain PM<sub>10</sub> nonattainment areas, that the allowable/permitted emissions covered under Addendum #1 to Permit #3390-00 would not further contribute to the current PM<sub>10</sub> nonattainment status of these areas.

Addendum #1  
Lonnie Knutson  
Permit #3390-00

An addendum to air quality Permit #3390-00 is issued to Lonnie Knutson (Knutson) pursuant to Section 75-2-204 and 75-2-211 of the Montana Code Annotated (MCA), as amended, and Administrative Rules of Montana (ARM) 17.8.765, as amended, for the following:

I. Permitted Equipment

Addendum #1 to Permit #3390-00 allows for the operation of a portable crushing/screening operation in or within 10 kilometers (km) of the following particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM<sub>10</sub>) nonattainment areas including but not limited to: Libby, Thompson Falls, Kalispell, Whitefish, Columbia Falls, and Butte. Knutson's application for Permit #3390-00 indicates winter and summertime operations in or within the Kalispell PM<sub>10</sub> nonattainment area.

II. Seasonal and Site Restrictions

Addendum #1 applies to the Knutson facility while operating at any location in or within 10 km of certain PM<sub>10</sub> nonattainment areas. Additionally, seasonal and site restrictions apply to the facility as follows:

- A. During the winter season (October 1-March 31) - The only location in or within 10 km of a PM<sub>10</sub> nonattainment area where Knutson may operate is: Section 24, Township 28 North, Range 23 West, in Flathead County, MT.
- B. During the summer season (April 1-September 30) – Knutson may operate at any location in or within 10 km of the Libby, Thompson Falls, Kalispell, Whitefish, Columbia Falls, and Butte PM<sub>10</sub> nonattainment areas.
- C. Knutson shall comply with the limitations and conditions contained in Addendum #1 to Permit #3390-00 while operating in or within 10 km of any of the previously listed PM<sub>10</sub> nonattainment areas. Addendum #1 shall be valid until revoked or modified. Since the Screen View modeled capacity crushing, screening, and diesel generator operations show compliance with applicable standards, Addendum #1 does not include production and or operational limits restricting capacity operations. The Department of Environmental Quality (Department) reserves the authority to modify Addendum #1 at any time based on local conditions of any future site. These conditions may include, but are not limited to, local terrain, meteorological conditions, proximity to residences or other businesses, etc.

III. Limitations and Conditions

The Department conducted Screen View air dispersion modeling, an Environmental Protection Agency (EPA)-approved modeling program, to determine the maximum allowable plant production rate that would maintain compliance with the National Ambient Air Quality Standards (NAAQS) and the Montana Ambient Air Quality Standards (MAAQS) for PM<sub>10</sub>. The NAAQS and MAAQS are designed to be protective of human health and public welfare. Through Screen View modeling, the Department determined that Knutson operations at maximum production capacity would maintain compliance with the applicable NAAQS/MAAQS; therefore, Addendum #1 to Permit #3390-00 does not include any production limits.

A. Operational

1. Water spray bars must be operated on the crushers, screens, and all transfer points whenever the crushing/screening plant is operating (ARM 17.8.749).
2. All visible emissions from the crushing/screening plant may not exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
3. Knutson shall not cause or authorize to be discharged into the atmosphere from any other equipment, such as screens or transfer points, any visible emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
4. Knutson shall not cause or authorize to be discharged into the atmosphere from haul roads, access roads, parking lots, or the general plant property any visible fugitive emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
5. Knutson shall treat all unpaved portions of the access roads, parking lots, and general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the 10% opacity limitation (ARM 17.8.749).

B. Operational Reporting Requirements

1. Knutson shall provide the Department with written notification of job completion within 10 working days of job completion (ARM 17.8.749).
2. Knutson shall provide the Department with written notice of relocation of the permitted equipment within 15 working days before the physical transfer of the equipment (ARM 17.8.734).
3. Production information for the sites covered by this addendum must be submitted to the Department with the annual emission inventory request or within 30 days of completion of the project. The information must include (ARM 17.8.749):
  - a. Tons of material crushed
  - b. Tons of material screened
  - c. Tons of bulk material loaded
  - d. Daily hours of operation
  - e. Gallons of diesel fuel used for the generator
  - f. Fugitive dust information consisting of a listing of all plant vehicles including the following for each vehicle type:
    - i. Number of vehicles
    - ii. Vehicle type
    - iii. Vehicle weight, loaded
    - iv. Vehicle weight, unloaded

- v. Number of tires on vehicle
  - vi. Average trip length
  - vii. Number of trips per day per vehicle
  - viii. Average vehicle speed
  - ix. Area of activity
  - x. Vehicle fuel usage (gasoline or diesel) annual total
- g. Fugitive dust control for haul roads and general plant area:
- i. Hours of operation of water trucks
  - ii. Application schedule for chemical dust suppressant, if applicable

Addendum #1 Analysis  
Lonnie Knutson  
Permit #3390-00

I. Permitted Equipment:

Lonnie Knutson (Knutson) owns and operates a portable crushing/screening facility to be operated at various locations within Montana. Equipment used at this facility includes, but is not limited to:

- A 1962 Pioneer jaw crushing unit (maximum capacity 70 ton/hour) including a double deck screen and an apron feeder.

II. Source Description

Knutson operates a portable crushing/screening facility to be operated at various locations within Montana. Typical operations begin by loading the sand and gravel material into the apron feeder. From the apron feeder, materials are sent to the screen and then on to the jaw crusher and finally conveyed to a pile for use in various construction activities.

III. Applicable Rules and Regulations

The following are partial quotations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the Administrative Rules of Montana (ARM) and are available, upon request, from the Department of Environmental Quality (Department). Upon request, the Department will provide references for locations of complete copies of all applicable rules and regulations or copies where appropriate.

ARM 17.8, Subchapter 7 - Permit, Construction and Operation of Air Contaminant Sources, including, but not limited to:

- A. ARM 17.8.749 Conditions for Issuance of Permit. This rule requires that Knutson demonstrate compliance with applicable rules and standards before a permit can be issued. Also, a permit may be issued with such conditions as are necessary to assure compliance with all applicable rules and standards. Knutson demonstrated compliance with all applicable rules and standards as required for permit issuance.
- B. ARM 17.8.764 Modification of Permit. An air quality permit may be modified for changes in any applicable rules and standards adopted by the Board of Environmental Review (Board) or changed conditions of operation at a source or stack which do not result in an increase in emissions because of the changed conditions. A source may not increase its emissions beyond those found in its permit unless the source applies for and receives another permit.
- C. ARM 17.8.765 Transfer of Permit. An air quality permit may be transferred from one location to another if:
  - 1. Written notice of Intent to Transfer location and proof of public notice are sent to the Department;
  - 2. The source will operate in the new location for a period of less than 1 year; and

3. The source will not have any significant impact on any nonattainment area or any Class I area.

Knutson shall submit proof of compliance with the transfer and public notice requirements when Knutson transfers to any of the locations covered by this addendum and will only be allowed to stay in the new location for a period of less than 1 year. Also, the conditions and limitations in Addendum #1 to Permit #3390-00 will prevent Knutson from having a significant impact on certain PM<sub>10</sub> nonattainment areas.

#### IV. Emission Inventory

Source	Pounds/Day					
	PM	PM <sub>10</sub>	NO <sub>x</sub>	VOC	CO	SO <sub>x</sub>
1962 Pioneer Jaw	4.20	2.02	0.00	0.00	0.00	0.00
2-Deck Screen	52.92	25.20	0.00	0.00	0.00	0.00
Material Transfer (4 transfers)	9.74	4.70	0.00	0.00	0.00	0.00
Pile Forming (2 Piles)	14.11	6.72	0.00	0.00	0.00	0.00
Bulk Loading	7.06	3.36	0.00	0.00	0.00	0.00
Haul Roads	15.00	6.75	0.00	0.00	0.00	0.00
Diesel Power Plant (300 Hp)	15.84	15.84	223.20	17.78	48.10	14.76
<b>Total</b>	<b>118.87</b>	<b>64.59</b>	<b>223.20</b>	<b>17.78</b>	<b>48.10</b>	<b>14.76</b>

- A complete emission inventory for Addendum #1 to Permit #3390-00 is on file with the Department.

#### V. Existing Air Quality

On July 1, 1987, the Environmental Protection Agency (EPA) promulgated new National Ambient Air Quality Standards (NAAQS) for particulate matter with an aerodynamic diameter of 10 microns or less (PM<sub>10</sub>). Due to exceedances of the national standards for PM<sub>10</sub>, the cities of Kalispell (and the nearby Evergreen area), Columbia Falls, Butte, Whitefish, Libby, Missoula, and Thompson Falls were designated by EPA as nonattainment for PM<sub>10</sub>. As a result of this designation, EPA required the Department and the City-County Health Departments to submit PM<sub>10</sub> State Implementation Plans (SIP). The SIPs consisted of emission control plans that controlled fugitive dust emissions from roads, parking lots, construction, and demolition, since technical studies determined these sources to be the major contributors to PM<sub>10</sub> emissions.

Addendum #1 to Permit #3390-00 is for a portable crushing/screening plant to be located in or within 10 km of certain PM<sub>10</sub> nonattainment areas during the summer season (April 1 through September 30). Summertime operations (April 1 through September 30) may include areas in or within 10 km of certain PM<sub>10</sub> nonattainment areas, including, but not limited to Libby, Kalispell, Columbia Falls, Whitefish, Thompson Falls, and Butte.

In the view of the Department, the amount of controlled emissions generated by the operation will not exceed any set ambient standard. In addition, Addendum #1 to Permit #3390-00 contains limitations and conditions that will be protective of the PM<sub>10</sub> nonattainment areas.

#### VI. Taking or Damaging Implication Analysis

As required by 2-10-101 through 105, MCA, the Department conducted a private property taking and damaging assessment and determined there are no taking or damaging implications.



VII. Environmental Assessment

An environmental assessment, required by the Montana Environmental Policy Act, was completed for this project. A copy is attached.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**Permitting and Compliance Division**  
**Air Resources Management Bureau**  
**P.O. Box 200901, Helena, MT 59620**  
**(406) 444-3490**

**FINAL ENVIRONMENTAL ASSESSMENT (EA)**

Issued To: Lonnie Knutson  
1520 Ashley Lake Road  
Kalispell, MT 59901

*Air Quality Permit number: 3390-00*

*Preliminary Determination Issued: May 23, 2005*

*Department Decision Issued: June 8, 2005*

*Permit Final: June 24, 2005*

1. Legal Description of Site: Section 24, Township 28 North, Range 23 West, Flathead County, MT.
2. Description of Project: Knutson operates a non-NSPS affected portable 1962 Pioneer jaw crushing unit with an attached 2-deck screen and an apron feeder. The crushing/screening unit is powered by a 300-Hp diesel-fired Caterpillar 3406 power plant and associated 100-kW Klassen Gen-Set. Typical operations begin by loading the sand and gravel material to be processed into the apron feeder. From the apron feeder, materials are sent to the screen and then on to the jaw crusher and finally conveyed to a pile for use in various construction activities.
3. Objectives of Project: To create business and revenue for the company.
4. Alternatives Considered: In addition to the proposed action, the Department also considered the “no-action” alternative. The “no-action” alternative would deny issuance of the air quality preconstruction permit to the proposed facility. However, the Department does not consider the “no-action” alternative to be appropriate because Knutson has demonstrated compliance with all applicable rules and regulations as required for permit issuance. Therefore, the “no-action” alternative was eliminated from further consideration.
5. A Listing of Mitigation, Stipulations, and Other Controls: A list of enforceable conditions, including a BACT analysis and determination, would be included in Permit #3390-00.
6. Regulatory Effects on Private Property: The Department considered alternatives to the conditions imposed in this permit as part of the permit development. The Department determined that the permit conditions are reasonably necessary to ensure compliance with applicable requirements and demonstrate compliance with those requirements and do not unduly restrict private property rights.

7. The following table summarizes the potential physical and biological effects of the proposed project on the human environment. The “no-action” alternative was discussed previously.

		Major	Moderate	Minor	None	Unknown	Comments Included
A	Terrestrial and Aquatic Life and Habitats			X			Yes
B	Water Quality, Quantity, and Distribution			X			Yes
C	Geology and Soil Quality, Stability and Moisture			X			Yes
D	Vegetation Cover, Quantity, and Quality			X			Yes
E	Aesthetics			X			Yes
F	Air Quality			X			Yes
G	Unique Endangered, Fragile, or Limited Environmental Resources				X		Yes
H	Demands on Environmental Resource of Water, Air and Energy			X			Yes
I	Historical and Archaeological Sites				X		Yes
J	Cumulative and Secondary Impacts			X			Yes

**Summary of Comments on Potential Physical and Biological Effects:** The following comments have been prepared by the Department.

A. Terrestrial and Aquatic Life and Habitats

Terrestrials would use the same area as the crushing/screening operations. The crushing/screening operations would be considered a minor source of emissions, by industrial standards, with intermittent and seasonal operations. Therefore, only minor effects on terrestrial life would be expected as a result of equipment operations or from pollutant deposition.

Impacts on aquatic life could result from storm water runoff and pollutant deposition, but such impacts would be minor as the facility would be a minor source of emissions (with seasonal and intermittent operations) and only minor amounts of water would be used for pollution control. Since only a minor amount of air emissions would be generated, only minor deposition would occur. Therefore, only minor and temporary effects to aquatic life and habitat would be expected from the proposed crushing/screening operation.

B. Water Quality, Quantity, and Distribution

Water would be used for dust suppression on the surrounding roadways and areas of operation and for pollution control for equipment operations. However, water use would only cause a minor disturbance to these areas, since only relatively small amounts of water would be needed. At most, only minor surface and groundwater quality impacts would be expected as a result of using water for dust suppression because only small amounts of water would be required to control air pollutant emissions and deposition of air pollutant emissions would be minor (as described in Section 7.F of this EA).

C. Geology and Soil Quality, Stability, and Moisture

The crushing/screening operations would have only minor impacts on soils in any proposed site location (due to the construction and use of the crushing/screening facility) because the facility is relatively small in size, would use only relatively small amounts of water for pollution control, and would only have seasonal and intermittent operations. Therefore, any affects upon geology and soil quality, stability, and moisture at any proposed operational site would be minor.

D. Vegetation Cover, Quantity, and Quality

Because the facility would be a minor source of emissions, by industrial standards, and would typically operate in areas previously designated and used for aggregate crushing and screening, impacts from the emissions from the crushing/screening facility would be minor and typical.

As described in Section 7.F of this EA, the amount of air emissions from this facility would be minor. As a result, the corresponding deposition of the air pollutants on the surrounding vegetation would also be minor. Also, because the water usage is minimal, as described in Section 8.B, and the associated soil disturbance is minimal, as described in Section 8.C, corresponding vegetative impacts would be minor.

E. Aesthetics

The crushing/screening operation would be visible and would create additional noise while in operation. However, Permit #3390-00 would include conditions to control emissions, including visible emissions, from the plant. Also, because the crushing/screening operation is portable and would operate on an intermittent and seasonal basis and would typically locate within a previously permitted open-cut pit, any visual and noise impacts would be minor and short-lived.

F. Air Quality

The air quality impacts from the crushing/screening operations would be minor because Permit #3390-00 would include conditions limiting the opacity from the plant, as well as requiring water spray bars and other means to control air pollution. Additionally, the facility's production capacity would be limited and the facility would emit relatively small amounts of air pollutants. Further, Permit #3390-00 would limit total emissions from the crushing/screening operation and any additional equipment owned and operated by Knutson to 250 tons/year or less at any given operating site, excluding fugitive emissions.

Further, the Knutson crushing/screening plant would be used for operations in locations in or within 10 kilometers of certain PM<sub>10</sub> nonattainment areas in Montana. While operating at these sites, Knutson would be subject to the requirements included in Addendum #1 to Permit #3390-00, which provides more restrictive operating conditions to protect the affected PM<sub>10</sub> nonattainment area from further adverse impact and air quality degradation.

Finally, the crushing/screening plant would be used on a temporary and intermittent basis, thereby further reducing potential air quality impacts from the facility. Additionally, the small and intermittent amounts of deposition generated from the crushing/screening operation would result in only minor impacts to the surrounding environment. Therefore, any air quality impacts resulting from the proposed crushing/screening operation would be minor.

G. Unique Endangered, Fragile, or Limited Environmental Resources

The Department contacted the Montana Natural Heritage Program (MNHP) in an effort to identify any species of special concern that may be located within or near the initially proposed area of operation (Section 24, Township 28 North, Range 23 West, Flathead County, MT). Search results concluded that there is one such environmental resource on file for the area. Area in this case is defined by the township and range of the proposed site, with an additional one-mile buffer. The species of special concern is the *Lynx Canadensis* commonly referred to as the lynx. While the lynx is found in specific habitats within the defined area, the MNHP search did not indicate that this species of special concern would locate directly on the proposed site or even within the same section as the proposed operating site. Therefore, it is unlikely that the proposed crushing/screening operation would adversely affect the lynx while operating at the initial site location.

Further, Permit #3390-00 and Addendum #1 would cover the proposed crushing/screening operation while located at various locations throughout the state. The operation of this crushing/screening operation would result in the emissions of air pollutants that could result in impacts to existing unique endangered, fragile, or limited environmental resources in the areas of operation. However, given the temporary and portable nature of the operations, any impacts would be minor and short-lived. In addition, operational conditions and limitations in Permit #3390-00 would be protective of these resources by protecting the surrounding environment. Overall, any impacts to any existing unique endangered, fragile, or limited environmental resource in a given area of operation would be minor.

H. Demands on Environmental Resources of Water, Air, and Energy

Due to the relatively small size of the facility, the crushing/screening operation would result in only minor demands on the environmental resources of water, air, and energy for normal operations. Small quantities of water would be used for dust suppression and would control particulate emissions generated through equipment operations and vehicle traffic at the site. Energy requirements would be accommodated through the operation of the permitted diesel-fired electric generator and would be minor due to the relatively small amount of diesel fuel required to operate the generator. In addition, the crushing/screening plant would operate on an intermittent and seasonal basis thereby further minimizing energy demands. Further, impacts to air resources would be minor because the source would be small by industrial standards, would operate on an intermittent and seasonal basis, and would generate relatively minor amounts of regulated pollutants through normal operations. Overall, any impacts to water, air, and energy resources in any given area would be minor.

I. Historical and Archaeological Sites

In an effort to identify any historical and archaeological sites that may be located near the proposed initial site of operation, the Department contacted the Montana Historical Society, State Historic Preservation Office (SHPO). According to SHPO records, there are no previously recorded historic or archaeological sites located within the proposed area. Therefore, the Department determined that it is unlikely that the proposed project would have any impact on any historical and archaeological site while located at the initial operating site location.

Typically, the crushing/screening plant would operate within a previously disturbed open-cut pit used for such purposes. According to past correspondence from the SHPO, there would be a low likelihood of disturbance to any known archaeological or historical site given any previous industrial disturbance in any given area of operation. Therefore, it is unlikely that the proposed crushing/screening plant would impact any historical or archaeological sites in a given area of operation.

J. Cumulative and Secondary Impacts

The crushing/screening operation would cause minor cumulative and secondary impacts to the physical and biological aspects of the human environment because the facility would generate emissions of regulated air pollutants and noise would be generated from equipment operations. Emissions and noise would cause minor disturbance to a given area because the equipment is relatively small by industrial standards and the facility would be expected to operate in areas designated and typically used for such operations. Additionally, this facility, in combination with the other emissions from equipment operations at the operational site, would not be permitted to exceed 250 tons per year of non-fugitive emissions. Overall, any cumulative or secondary impacts to the physical and biological aspects of the human environment would be minor.

8. The following table summarizes the potential economic and social effects of the proposed project on the human environment. The “no-action” alternative was discussed previously.

		Major	Moderate	Minor	None	Unknown	Comments Included
A	Social Structures and Mores				X		Yes
B	Cultural Uniqueness and Diversity				X		Yes
C	Local and State Tax Base and Tax Revenue			X			Yes
D	Agricultural or Industrial Production			X			Yes
E	Human Health			X			Yes
F	Access to and Quality of Recreational and Wilderness Activities			X			Yes
G	Quantity and Distribution of Employment				X		Yes
H	Distribution of Population				X		Yes
I	Demands for Government Services			X			Yes
J	Industrial and Commercial Activity			X			Yes
K	Locally Adopted Environmental Plans and Goals			X			Yes
L	Cumulative and Secondary Impacts			X			Yes

SUMMARY OF COMMENTS ON POTENTIAL ECONOMIC AND SOCIAL EFFECTS: The following comments have been prepared by the Department.

A. Social Structures and Mores

The crushing/screening operation would cause no disruption to the social structures and mores in the area because the source would be a minor industrial source of emissions, would be separated from the general population, would initially and typically operate in an existing industrial gravel pit used for such purposes, and would operate on a temporary and intermittent basis. Further, the facility would be required to operate according to the limits and conditions that would be included in Permit #3390-00 and Addendum #1, which would limit the effects to social structures and mores.

B. Cultural Uniqueness and Diversity

The cultural uniqueness and diversity of this area would not be impacted by the proposed crushing/screening operation because the proposed site would be separated from the general population, the facility would be a portable source, the facility would conduct seasonal and intermittent operations, and would utilize a limited and relatively small number of employees for

normal operations. The predominant use of the surrounding area would not change as a result of this crushing/screening operation. Therefore, the cultural uniqueness and diversity of the area would not be impacted.

C. Local and State Tax Base and Tax Revenue

The crushing/screening operations would have little, if any, impact on the local and state tax base and tax revenue because the facility would be a minor industrial source and would conduct only seasonal and intermittent operations. The facility would require the use of only a few employees. Thus, only minor impacts to the local and state tax base and revenue could be expected from the employees and facility production. Furthermore, the impacts to local tax base and revenue would be minor because the source would be portable and the money generated for taxes would be widespread.

D. Agricultural or Industrial Production

The crushing/screening operations would result in only minor impacts to local industrial production since the facility would be a minor source of aggregate production and air emissions. Also, the facility would locate in an area adjacent to land that could be used for animal grazing and agricultural production. However, because minimal deposition of air pollutants would occur on the surrounding land (see Section 8.F of this EA), only minor and temporary effects on the surrounding vegetation and land would occur thereby minimizing any minor impacts to surrounding agricultural land and practices in the proposed area of operations. In addition, the facility operations would be temporary in nature and would be permitted with operational conditions and limitations that would minimize impacts to local agricultural areas. Overall, the proposed project would result in only minor and temporary impacts to agricultural and industrial production in the proposed area of operations.

E. Human Health

Permit #3390-00 would include limits and conditions to ensure that the crushing/screening facility would be operated in compliance with all applicable air quality rules and standards. These rules and standards are designed to be protective of human health. As described in Section 7.F. of this EA, the air emissions from the proposed facility would be minimized by the use of water spray and other process limits that would be required by Permit #3390-00 and Addendum #1. Also, the facility would operate on a temporary and intermittent basis and pollutants would be widely dispersed (see Section 7.F of this EA). Therefore, only minor impacts would be expected on human health from the proposed crushing/screening operations.

F. Access to and Quality of Recreational and Wilderness Activities

Noise from the facility would be minor because the crushing/screening operation would be small by industrial standards and would operate in areas removed from the general population and typically used for such operations (i.e. existing gravel pit). As a result, the amount of noise generated from the crushing/screening operation would be minimal and typical for the area. Also, the facility would operate on a seasonal and intermittent basis. Therefore, any impacts to the quality of recreational and wilderness activities created by the proposed project would be expected to be minor and short-lived.

G. Quantity and Distribution of Employment

The crushing/screening operation would require only a few employees to operate and would be conducted on a seasonal and intermittent basis thereby resulting in little, if any, permanent immigration into or emigration out of a given area of operation. Therefore, the proposed project would not impact the quantity and distribution of employment in the proposed area of operation.

H. Distribution of Population

The proposed crushing/screening operation would require only a few employees to operate and would be conducted on a seasonal and intermittent basis thereby resulting in little if any permanent immigration into or emigration out of a given area. Therefore, the proposed project would not impact the distribution of population at the initially proposed or any other given operating site.

I. Demands of Government Services

Minor increases would be seen in traffic on existing roadways in the area while the crushing/screening operation is in progress. In addition, government services would be required for acquiring the appropriate permits for the proposed project and to verify compliance with the permits that would be issued. Overall, demands for government services would be minor.

J. Industrial and Commercial Activity

The crushing/screening operation would represent only a minor increase in the industrial activity in the proposed area of operation because the source would be a relatively small industrial source that would be portable and temporary in nature. No additional industrial or commercial activity would be expected as a result of the proposed operation.

K. Locally Adopted Environmental Plans and Goals

Permit #3390-00 would allow Knutson to operate in areas designated by EPA as attainment or unclassified for the National and Montana ambient air quality standards. In addition, Addendum #1 to Permit #3390-00 would allow for summertime operations (April 1 through September 30) in or within 10 km of certain PM<sub>10</sub> nonattainment areas and wintertime operations (October 1 through March 31) within Section 24, Township 28 North, and Range 23 West, in Flathead County, MT. The Montana state implementation plan (SIP) provides that the state must improve the air quality in these areas to the point of compliance with the PM<sub>10</sub> standard. Permit #3390-00 and Addendum #1 to Permit #3390-00 would include limits and conditions that would protect air quality and keep facility emissions in compliance with any applicable ambient air quality standards thereby protecting the existing PM<sub>10</sub> nonattainment areas from further degradation. In addition to the air quality protection provided by Permit #3390-00 and Addendum #1, the facility would be a portable source and would have intermittent and seasonal operations, thus, any impacts from the facility would be minor and short-lived.

L. Cumulative and Secondary Impacts

The crushing/screening operations would cause minor cumulative and secondary impacts to the social and economic aspects of the human environment in the immediate area of operation because the source would be a portable and temporary source. No other industrial operations would be expected to result from the permitting and operation of this facility. Minor increases in traffic would have minor effects on local traffic in the immediate area. Because the source is relatively small and temporary, only minor economic impacts to the local economy would be expected from operating the facility. Further, this facility may be operated in conjunction with



other equipment owned and operated by Knutson; however, any cumulative impacts to the social and economic aspects of the human environment would be minor and short-lived. Overall, the proposed crushing/screening operation would result in only minor and temporary secondary and cumulative impacts to the social and economic aspects of the human environment of the initially proposed and any future operating site.

*Recommendation:* An EIS is not required.

*If an EIS is not required, explain why the EA is an appropriate level of analysis:* All potential effects resulting from construction and operation of the proposed facility are minor; therefore, an EIS is not required.

*Other groups or agencies contacted or which may have overlapping jurisdiction:* Montana Department of Environmental Quality - Permitting and Compliance Division (Industrial and Energy Minerals Bureau); Montana Natural Heritage Program; and the State Historic Preservation Office (Montana Historical Society).

*Individuals or groups contributing to this EA:* Montana Department of Environmental Quality (Air Resources Management Bureau and Industrial and Energy Minerals Bureau), Montana State Historic Preservation Office (Montana Historical Society).

*EA prepared by:* M. Eric Merchant, MPH

*Date:* May 20, 2005