



Montana Department of
ENVIRONMENTAL QUALITY

Judy Martz, Governor

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December 19, 2002

Bill Mackin
A.M. Welles, Inc.
P.O. Box 2808
Norris, MT 59745

Dear Mr. Mackin:

Air Quality Permit #3219-00 is deemed final as of December 19, 2002, by the Department of Environmental Quality (Department). This permit is for the operation of a portable crushing/screening plant. All conditions of the Department's decision remain the same. Enclosed is a copy of your permit with the final date indicated.

For the Department

David L. Klomp
Air Permitting Supervisor
Air & Waste Management Bureau
(406) 444-3490

DK:lh
Enclosure

Montana Department of Environmental Quality
Permitting and Compliance Division

Air Quality Permit #3219-00

A.M. Welles, Inc.
P.O. Box 2808
Norris, MT 59745

December 19, 2002



AIR QUALITY PERMIT

Issued To: A.M. Welles, Inc.
P. O. Box 2808
Norris, MT 59745

Permit: #3219-00
Application Complete: 10/16/02
Preliminary Determination Issued: 11/15/02
Department's Decision Issued: 12/03/02
Permit Final: 12/19/02
AFS: #777-3219

An air quality permit, with conditions, is hereby granted to A.M. Welles, Inc. (A.M. Welles) pursuant to Sections 75-2-204 and 211 of the Montana Code Annotated (MCA), as amended, and Administrative Rules of Montana (ARM) 17.8.701, *et seq.*, as amended, for the following:

SECTION I. Permitted Facilities

A. Permitted Equipment

A.M. Welles operates a portable crushing/screening plant at various locations throughout Montana. The permitted equipment covered by Permit #3219-00 includes two crushers, two screens, one diesel generator, and associated equipment. A complete list of the permitted equipment is contained in Section I.A of the permit analysis.

B. Plant Location

A.M. Welles operates the portable crushing/screening plant at various locations throughout Montana. Permit #3219-00 applies while operating at any location within Montana, except within those areas having a Department of Environmental Quality (Department) approved permitting program. *A Missoula County air quality permit will be required for locations within Missoula County.* The initial location is the NW¼ of Section 17 and the NE¼ of Section 18, Township 1 South, Range 5 East, in Gallatin County, Montana.

SECTION II. Conditions and Limitations

A. Emission Limitations

1. All visible emissions from any Standards of Performance for New Stationary Sources (NSPS) affected crushers shall not exhibit an opacity of 15% or greater averaged over 6-consecutive minutes (ARM 17.8.340, ARM 17.8.715, and 40 CFR 60, Subpart 000).
2. All visible emissions from any other NSPS affected equipment, such as screens and conveyor transfer points, shall not exhibit an opacity of 10% or greater averaged over 6-consecutive minutes (ARM 17.8.340, ARM 17.8.715, and 40 CFR 60, Subpart 000).
3. A.M. Welles shall not cause or authorize to be discharged into the atmosphere from any non-NSPS affected crusher, screen, and any other associated equipment any visible emissions that exhibit an opacity of 20% or greater averaged over 6-consecutive minutes (ARM 17.8.304 and ARM 17.8.715).
4. 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, II.A.2, and II.A.3 (ARM 17.8.710 and ARM 17.8.715).

5. A.M. Welles 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 and ARM 17.8.715).
6. A.M. Welles 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.5 (ARM 17.8.710 and ARM 17.8.715).
7. A.M. Welles shall not operate more than two crushers with a total combined maximum design capacity of 600 tons/hour at any given time (ARM 17.8.710).
8. Total combined crushing production (throughput of all crushers combined) shall be limited to 2,628,000 tons during any rolling 12-month time period (ARM 17.8.710).
9. A.M. Welles shall not operate more than two screens with a total combined maximum design capacity of 600 tons/hour at any given time (ARM 17.8.710).
10. Total combined screening production (throughput of both screens combined) shall be limited to 2,628,000 tons during any rolling 12-month time period (ARM 17.8.710).
11. A.M. Welles shall not operate more than one diesel generator with a maximum design capacity of 800 kW at any given time (ARM 17.8.710).
12. Operation of the diesel generator shall not exceed 7700 hours during any rolling 12-month time period (ARM 17.8.1204).
13. If the permitted equipment is used in conjunction with any other equipment owned or operated by A.M. Welles, 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 17.8.710 and ARM 17.8.715).
14. A.M. Welles shall comply with all applicable standards and limitations, and the reporting, recordkeeping, and notification requirements contained in 40 CFR 60, Subpart OOO, as appropriate (ARM 17.8.340 and 40 CFR 60, Subpart OOO).
15. A.M. Welles shall certify that its annual emissions are less than those that would require the source to obtain an air quality operating permit as required by ARM 17.8.1204(3)(b). The annual certification shall be submitted along with the annual emission inventory information.

B. Testing Requirements

1. Within 60 days after achieving maximum production, but no later than 180 days after initial start-up, an Environmental Protection Agency (EPA) Method 9 opacity test and/or other methods and procedures as specified in 40 CFR 60.675 must be performed on any NSPS affected crusher, screen, and any other affected equipment to demonstrate compliance with the emission limitations contained in Section II.A.1 and II.A.2 (ARM 17.8.340 and 40 CFR 60, General Provisions and Subpart OOO).
2. All compliance source tests shall conform to the requirements of the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).

3. The Department may require further 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 17.8.734).

2. A.M. Welles 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. A.M. Welles shall notify the Department of any construction or improvement project conducted, pursuant to ARM 17.8.705(l)(r), 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 17.8.705(l)(r)(iv) (ARM 17.8.705).

4. A.M. Welles 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 A.M. Welles 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.
5. A.M. Welles shall document, by month, the total combined crushing production. By the 25th day of each month, A.M. Welles shall total the combined crushing production of the facility during the previous 12 months to verify compliance with the limitation in Section II.A.8. A written report of the compliance verification shall be submitted along with the annual emissions inventory (ARM 17.8.710).
6. A.M. Welles shall document, by month, the total combined screening production. By the 25th day of each month, A.M. Welles shall total the combined screening production of the facility during the previous 12 months to verify compliance with the limitation in Section II.A.10. A written report of the compliance verification shall be submitted along with the annual emissions inventory (ARM 17.8.710).

7. A.M. Welles shall document, by month, the hours of operation of the diesel generator. By the 25th day of each month, A.M. Welles shall total the hours of operation of the diesel generator during the previous 12 months to verify compliance with the limitation in Section II.A.12. A written report of the compliance verification shall be submitted along with the annual emissions inventory (ARM 17.8.710).
8. A.M. Welles shall annually certify that its emissions are less than those that would require the facility to obtain an air quality operating permit as required by ARM 17.8.1204(3)(b). The annual certification shall comply with the certification requirements of ARM 17.8.1207. The annual certification shall be submitted along with the annual emissions inventory information.

D. Notification

A.M. Welles shall provide the Department with written notification of the actual startup date of the crushing/screening facility within 15 days of the actual startup date of the facility (ARM 17.8.710).

SECTION III. General Conditions

- A. Inspection – A.M. Welles 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 A.M. Welles fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations – Nothing in this permit shall be construed as relieving A.M. Welles of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided for in ARM 17.8.701, *et seq.* (ARM 17.8.717).
- 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 postpones the effective date of the Department's decision until conclusion of the hearing and issuance of a final decision by the Board. The Department's decision on the application is not final until 15 days have elapsed and there is no request for a hearing under this section.
- F. Permit Inspection – As required by ARM 17.8.716, 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 A.M. Welles 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 begin within 3 years of permit issuance and proceed with due diligence until the project is complete or the permit shall be revoked (ARM 17.8.731).
- 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. A.M. Welles shall comply with the conditions contained in this permit while operating at any location in Montana, except within those areas that have a Department approved permitting program.

I. Introduction/Process Description

A. Permitted Equipment

A.M. Welles, Inc. (A.M. Welles) owns and operates a portable crushing/screening facility. Equipment used at the facility includes, but is not limited to, the following:

1. (1) primary crusher
2. (1) secondary crusher (up to 600 tons/hour combined crushing maximum capacity)
3. (1) primary screen
4. (1) secondary screen (up to 600 tons/hour combined screening maximum capacity)
5. (1) diesel generator (up to 800 Kilowatt (kW) maximum capacity)
6. Associated equipment (conveyors and transfer points)

B. Source Description

For a typical operational set-up, quarried stone is passed through the facility's primary and secondary crushing and screening equipment for proper size classification. Associated equipment and activities include material conveying, storage, sized product loadout, and diesel fired electrical generation.

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, 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).

A.M. Welles 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 PM₁₀

A.M. Welles 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 20% for all fugitive emission sources and that reasonable precautions be taken to control emissions of airborne particulate matter. (2) Under this rule, A.M. Welles 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. (5) Commencing July 1, 1971, no person shall burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions.
6. ARM 17.8.340 Standard of Performance for New Stationary Sources. This rule incorporates, by reference, 40 CFR 60, Standards of Performance for New Stationary Sources (NSPS). A.M. Welles may be an NSPS affected facility under 40 CFR 60 and may be subject to the requirements of Subpart OOO depending on the date of manufacture of the equipment and maximum capacity of the crusher(s) used for the operation.

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. A.M. Welles 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 17.8.701 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
2. ARM 17.8.704 General Procedures for Air Quality Preconstruction Permitting. This air quality preconstruction permit contains requirements and conditions applicable to both construction and subsequent use of the permitted equipment.
3. ARM 17.8.705 When Permit Required--Exclusions. This rule requires a facility to obtain an air quality permit or permit alteration if they construct, alter or use any air contaminant sources that have the potential to emit greater than 5 tons per year of any pollutant. A.M. Welles has the potential to emit more than 5 tons per year of particulate matter, particulate matter less than 10 microns (PM₁₀), nitrogen oxides (NO_x), carbon monoxide (CO), and sulfur dioxide (SO_x); therefore, a permit is required.
4. ARM 17.8.706 New or Altered Sources and Stacks--Permit Application Requirements. This rule requires that a permit application be submitted prior to the installation, alteration, or use of a source. A.M. Welles submitted the required permit application for the current permit action.
5. ARM 17.8.707 Waivers. ARM 17.8.706 requires that a permit application be submitted 180 days before construction begins. This rule allows the Department to waive this time limit. The Department hereby waives this time limit.
6. ARM 17.8.710 Conditions for Issuance of Permit. This rule requires that A.M. Welles demonstrate compliance with applicable rules and regulations 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. A.M. Welles demonstrated compliance with all applicable rules and standards as required for permit issuance.

7. ARM 17.8.715 Emission Control Requirements. This rule requires a source to install the maximum air pollution control capability, which is technically practicable and economically feasible, except that Best Available Control Technology (BACT) shall be utilized. The required BACT analysis is included in Section III of the permit analysis.
 8. ARM 17.8.716 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 17.8.717 Compliance with Other Statutes and Rules. This rule states that nothing in the permit shall be construed as relieving A.M. Welles of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.701, *et seq.*
 10. ARM 17.8.720 Public Review of Permit Applications. 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 permit. A.M. Welles submitted an affidavit of publication of public notice for the October 9, 2002, issue of the *Bozeman Daily Chronicle*, a newspaper of general circulation in the Town of Bozeman, in Gallatin County, Montana, as proof of compliance with the public notice requirements.
 11. ARM 17.8.731 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 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 17.8.733 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 that do not result in an increase of emissions because of those changed conditions. A source may not increase its emissions beyond those found in its permit unless the source applies for and receives another permit.
 13. ARM 17.8.734 Transfer of Permit. (1) This rule states that an air quality permit can be transferred from one location to another if written notice of Intent to Transfer is sent to the Department. (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 Federal Clean Air Act (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 potential to emit 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. Potential to emit (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. Sources with PTE > 70 tons/year of PM₁₀ in a serious PM₁₀ 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 #3219-00 for A.M. Welles, 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 PM₁₀ nonattainment area.
 - d. This facility is potentially subject to a 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.
 - h. ARM 17.8.1204(3). The Department may exempt a source from the requirement to obtain an air quality operating permit by establishing federally enforceable limitations that limit that source's potential to emit.
 - i. In applying for an exemption under this rule, the owner or operator of the source shall certify to the Department that the source's potential to emit does not require the source to obtain an air quality operating permit.
 - ii. Any source that obtains a federally enforceable limit on potential to emit shall annually certify that its actual emissions are less than those that would require the source to obtain an air quality operating permit.

The Department determined that the annual reporting requirements contained in the permit are sufficient to satisfy this requirement.

3. ARM 17.8.1207 Certification of Truth, Accuracy, and Completeness. The compliance certification submittal required by ARM 17.8.1204(3) shall contain a certification of truth, accuracy, and completeness by a responsible official. This certification and information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

III. BACT Determination

A BACT determination is required for each new or altered source. A.M. Welles shall install on the new or altered source the maximum air pollution control capability that is technically practicable and economically feasible, except that BACT shall be utilized. A BACT analysis was conducted for particulate matter, PM₁₀, NO_x, CO, and SO_x emissions resulting from the operation of A.M. Welles's crushing/screening facility.

All visible emissions from any NSPS affected crusher shall not exhibit an opacity of 15% or greater averaged over 6-consecutive minutes. All visible emissions from any other NSPS affected equipment such as screens and conveyor transfer points, shall not exhibit an opacity of 10% or greater averaged over 6-consecutive minutes. In addition, all visible emissions from any non-NSPS affected equipment shall not exhibit an opacity of 20% or greater averaged over 6-consecutive minutes. Further, if the permitted equipment is used in conjunction with any other equipment owned or operated by A.M. Welles, 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.

Water and spray bars shall be available on site at all times and operated as necessary to maintain compliance with the opacity limitations. Further, A.M. Welles 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. Reasonable precautions will consist of treating all unpaved portions of the haul roads, access roads, parking lots, and the general plant area with water and/or chemical dust suppressant, as necessary, to control emissions of airborne particulate matter. The Department determined that using water spray bars, water, and/or chemical dust suppressant to maintain compliance with the opacity limitations and reasonable precautions requirements constitutes BACT in this case.

Due to the relatively small amount of particulate matter, PM₁₀, NO_x, CO, and SO_x emissions resulting from the operation of the portable generator and the cost of controlling the pollutants, add-on pollution control equipment would be cost prohibitive. Therefore, the Department determined that no additional controls will constitute BACT for the portable generator in this case. The control options selected are comparable to other recently permitted similar sources and are capable of achieving the appropriate emission standards.

IV. Emission Inventory

Tons/Year						
Source	TSP	PM ₁₀	NO _x	VOC	CO	SO _x
Primary Crusher (up to 300 tons/hr)	3.29	1.58	0.00	0.00	0.00	0.00
Secondary Crusher (up to 300 tons/hr)	3.29	1.58	0.00	0.00	0.00	0.00
Screens (2 up to 300 tons/hr each)	41.39	19.71	0.00	0.00	0.00	0.00
Bulk Loading	5.52	2.63	0.00	0.00	0.00	0.00
Material Transfer	19.05	9.20	0.00	0.00	0.00	0.00
Pile Forming	11.04	5.26	0.00	0.00	0.00	0.00
Haul Roads	2.74	1.23	0.00	0.00	0.00	0.00
Diesel Generator (up to 800 kW)	2.89	2.89	99.13	2.91	22.72	49.98
Total	89.20	44.07	99.13	2.91	22.72	49.98

- A complete emission inventory for Permit #3219-00 is on file with the Department.

V. Air Quality Impacts

In the view of the Department, the amount of controlled emissions generated by the operation of the portable crushing/screening plant will not exceed any set ambient standard. In addition, this source is portable and any air quality impacts will be minimal and short-lived.

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 and Waste Management Bureau
1520 East Sixth Avenue
P.O. Box 200901, Helena, Montana 59620-0901
(406) 444-3490

FINAL ENVIRONMENTAL ASSESSMENT (EA)

Issued For: A.M. Welles, Inc.
P.O. Box 2808
Norris, MT 59745

Permit Number: #3219-00

Preliminary Determination Issued: 11/15/02

Department Decision Issued: 12/03/02

Permit Final: 12/19/02

1. *Legal Description of Site:* The crushing/screening plant could operate at various locations within Montana. The original location would be the NW¼ of Section 17 and the NE¼ of Section 18, Township 1 South, Range 5 East, in Gallatin County, Montana.
2. *Description of Project:* The current permit action would allow the operation of a portable crushing/screening plant to operate at various locations throughout Montana. The process description is discussed in Section I.B. of the permit analysis of Permit #3219-00.
3. *Objectives of Project:* The objective of the project would be to generate business and revenue for the company and provide road construction materials. Permit #3219-00 would allow A.M. Welles to operate the permitted equipment at various locations within Montana.
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 A.M. Welles 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 listing of the enforceable permit conditions and a permit analysis, including a BACT analysis, would be contained in Permit #3219-00.
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 Resource			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 and aquatic life would use the areas in which the crushing/screening facility would operate. While deposition of pollutants would occur, as explained in Section 7.F. of this EA, due to the relatively small size and temporary nature of the operation, dispersion characteristics of pollutants, and conditions placed in Permit #3219-00, any impacts from the deposition of pollutants would be minor. In addition, as explained in Section 2 of this EA, crushing screening operations typically locate within a previously disturbed open-cut pit that is normally used for such activities. Therefore, only minor additional physical effects on terrestrial and aquatic life and habitats would be expected from site disturbance.

B. Water Quality, Quantity, and Distribution

Although there would be an increase in air emissions in the areas where the crushing/screening facility would operate, there would be little, if any impacts on water quality, quantity, and distribution because of the relatively small size and temporary nature of the operation. While deposition from air emissions would occur, the Department determined that any impacts from deposition would be minor. As described in Section 7.F. of this EA, due to the relatively small amount of emissions and conditions placed in Permit #3219-00, the impacts from the air emissions from the crushing/screening facility would be minor.

Further, water would be required for dust suppression. However, because of the relatively small size and temporary nature of the operation, only minor amounts of water would be required for adequate dust suppression; therefore, any impacts on water quality, quantity, or distribution would be minor. Any accidental spills or leaks from equipment would be required to be handled according to the appropriate environmental regulations.

C. Geology and Soil Quality, Stability, and Moisture

There would be minor impacts to the geology and soil quality, stability, and moisture in the areas that the crushing/screening plant would operate due to facility construction (bringing the various pieces of equipment on site and setting the equipment up for operation), increased vehicle traffic (employees coming to and from work, haul trucks leaving and returning to the site, and mobile equipment used to move material and product around the site), the use of water to control dust, and deposition of pollutants resulting from the crushing/screening operations. As explained in Section 7.F. of this EA, the relatively small size and temporary nature of the operation, dispersion characteristics of pollutants, and conditions placed in Permit #3219-00 would minimize the impacts from deposition.

D. Vegetation Cover, Quantity, and Quality

There would be minor impacts on the vegetative cover, quantity, and quality because small amounts of vegetation would likely be disturbed from the crushing/screening facility. Crushing/screening operations typically locate within a previously disturbed open-cut pit that is normally used for such activities. Therefore, any physical effects on vegetation cover, quantity, and quality would be minor. While deposition of pollutants would occur on the surrounding vegetation, as explained in Section 7.F. of this EA, the Department determined that due to the relatively small size and temporary nature of the operation, dispersion characteristics of pollutants, and conditions placed in Permit #3219-00, any impacts from deposition would be minor. Also, because the water usage would be minimal (as described in Section 7.B. of this EA) and the associated soil disturbance would be minor (as described in Section 7.C. of this EA) corresponding vegetative impacts would also be minor.

E. Aesthetics

The crushing/screening facility would be visible and would create additional noise in the areas where it would operate. Permit #3219-00 would include conditions to control emissions, including visible emissions, from the crushing/screening facility. Crushing/screening operations typically locate within a previously disturbed open-cut pit that is normally used for such activities. Because the crushing/screening plant is relatively small, temporary, and seasonal, and the fact that the areas where the facility would operate are typically used for such activities, any aesthetic impact to any given area of operation would be minor and would sometimes reflect impacts that are common to a given area.

F. Air Quality

Air quality impacts from the crushing/screening facility would be minor because the crushing/screening facility would be a relatively small and temporary source. Deposition of pollutants would occur as a result of operating the crushing/screening facility. However, the Department determined that any air quality impacts from deposition would be minor due to dispersion characteristics of pollutants, the atmosphere (wind speed, direction, temperature, etc.), the source (stack height, stack temperature, etc.) and conditions placed in Permit #3219-00. Permit #3219-00 would include conditions limiting the opacity from the plant. In addition, Permit #3219-00 would include conditions requiring reasonable precautions to be taken to control emissions from haul roads, access roads, parking lots, and the general work area. Further, Permit #3219-00 would also limit total emissions from the crushing/screening facility and any additional A.M. Welles equipment operated at the same site to 250 tons per year or less excluding fugitive emissions. The Department determined that the crushing/screening facility would be a minor source of emissions as defined under the Title V Operating Permit Program because federally enforceable limitations would be established that would limit the source's potential to emit below the major source threshold level of 100 tons per year for any regulated air pollutant.

G. Unique Endangered, Fragile, or Limited Environmental Resources

The Department contacted the Montana Natural Heritage Program, National Resource Information System (NRIS), in an effort to identify any species of special concern associated with the proposed initial location. NRIS identified three plant species and one animal species of special concern in the general area. These are the *Sporobolus Neglectus* (Small Dropseed) identified in the city of Belgrade about 2.5 miles northwest of the site, the *Sphenopholis Intermedia* (Slender Wedgegrass) identified near Bozeman about six miles southeast of the site, the *Mimulus Nanus* (Dwarf Purple Monkeyflower) identified about five miles southeast of the site, and the *Isocapnia Crinita* (Stonefly) identified about six miles southeast of the site. Based on the distance from the site, the relatively small size and temporary nature of the crushing/screening facility, and the fact that the proposed site is an existing open cut pit and future sites would probably be as well, the Department determined that any potential impacts to these species or any other unique endangered, fragile, or limited environmental species would be minor.

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

The crushing/screening facility would require only small quantities of water and air for proper operation due to the relatively small size of the facility and conditions placed in Permit #3219-00. Small amounts of water would be used for dust control on the surrounding roadways and the associated job site. In addition, as described in Section 7.F. of this EA, air emissions generated from the facility would have minor impacts on air quality in the immediate and surrounding area. However, the operation of the crushing/screening facility is seasonal. Seasonal operations would result in fewer demands on the environmental resource of water and air. Further, the facility utilizes a diesel generator to provide power to the facility; therefore, there would be no impact on energy demand in any given area of operation. While the demand on the non-renewable resource of diesel fuel would increase, any impacts would be minor due to the seasonal nature of the operations and the relatively small size of the facility. Overall, the demands on the environmental resource of water, air, and energy would be minor.

I. Historical and Archaeological Sites

In an effort to identify any historical and archaeological sites that may be present in or near the proposed initial site, the Department contacted the Montana Historical Society, State Historic Preservation Office (SHPO). SHPO indicated that there have been two previously recorded historic sites in the general area. Site 24GA1096 is a portion of the Northern Pacific Railroad and site 24GA0999 is part of the Northern Pacific Lowline. SHPO indicated that because the facility would be locating in an existing gravel pit, there is a low likelihood that cultural resources would be impacted. They also indicated that a cultural resource inventory is not warranted at this time. Given the seasonal and portable nature of the operations, the relatively small size of the facility, and the fact that the areas where the facility would operate are typically used for such operations, the chance of impacting historical and archaeological sites would be minor.

J. Cumulative and Secondary Impacts

The crushing/screening facility would cause minor effects on the physical and biological aspects of the human environment because the facility would generate emissions of particulate matter, PM₁₀, NO_x, CO, SO₂ and VOC. Conditions that would be placed in Permit #3219-00 would ensure that no air quality impacts, other than minor air quality impacts, would occur. Noise impacts would be minor due the seasonal and portable nature of the operation and the relatively small size of the facility. Impacts from noise would be seasonal and temporary because the crushing/screening facility is permitted as a portable source so the facility would typically move to other locations. Limitations would be established in Permit #3219-00 to minimize air pollution.

There is potential for other operations to locate at the same sites that the crushing/screening facility would use. However, any operations would have to apply for and receive the appropriate permits from the Department prior to operation. These permits would address the environmental impacts associated with the operations at the proposed site. The crushing/screening facility would be limited by Permit #3219-00 to total emissions of 250 tons per year or less from non-fugitive emissions sources at any given site. Overall, any impacts to the physical and biological 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 facility would cause no disruption to native or traditional lifestyles or communities (Social Structures and Mores) at any future site because of the relatively small size and temporary nature of the facility. In addition, it would be unlikely that the crushing/screening facility would have an impact on Social Structures and Mores of any future area of operation because the facility would likely be operated in a previously disturbed industrial area typically used for such operations.

B. Cultural Uniqueness and Diversity

The crushing/screening facility would not impact the cultural uniqueness and diversity of the proposed area because of the relatively small size and temporary nature of the crushing/screening facility. In addition, it would be unlikely that the crushing/screening facility would have an impact on the cultural uniqueness and diversity of any future area of operation because the facility would likely be operated in a previously disturbed industrial area typically used for such operations.

C. Local and State Tax Base and Tax Revenue

The proposed crushing/screening facility would have little, if any effects on local and state tax base and tax revenue. The facility would be a temporary and seasonal source. A limited number of additional employees would be added as a result of issuing Permit #3219-00. Any revenue created by the crushing/screening facility would be wide spread and would be for relatively short time periods.

D. Agricultural or Industrial Production

The crushing/screening facility would usually locate in a previously disturbed industrial area typically used for such operations. Therefore, the Department does not expect that the crushing/screening facility would affect or displace any agricultural land or production. Further, the crushing/screening facility would be small by industrial standards and would have only a minor impact on any local industrial production.

E. Human Health

Permit #3219-00 would incorporate conditions to ensure that the crushing/screening facility would be operated in compliance with all applicable rules and regulations. These rules and regulations are designed to be protective of human health. As described in Section 7.F. of this EA, the Department determined that any impacts from deposition would be minor due to dispersion characteristics of air emissions and conditions placed in Permit #3219-00. Pollution controls and opacity limitations on the crushing/screening facility, associated equipment, and the surrounding operational area would minimize the air emissions from this facility. Therefore, any impacts to human health would be minor.

F. Access to and Quality of Recreational and Wilderness Activities

The crushing/screening facility would not affect any access to recreational and wilderness activities because the facility would typically be operated in an existing industrial pit. However, minor effects on the quality of recreational activities might be created by noise from the operating equipment. Any impacts from the site would be temporary, due to the portable and seasonal nature of the crushing/screening facility.

G. Quantity and Distribution of Employment

Given the relatively small size and temporary nature of the operation, the quantity and distribution of employment in any given area would not be affected. A limited number of employees would be expected to be hired or discharged as a result of issuing Permit #3219-00.

H. Distribution of Population

Given the relatively small size and temporary nature of the operation, the operation of the crushing/screening facility would not disrupt the normal population distribution of any given area. The operation of the crushing/screening facility would create limited new employment opportunities with A.M. Welles or with any surrounding businesses, so any change in population distribution would be negligible.

I. Demands of Government Services

Government services would be required for acquiring the appropriate permits and ensuring compliance with the permits that would be issued. However, the government services required for this permit would be minor. There could be an increase in vehicle traffic resulting from the

operation of the crushing/screening facility. However, any demands on government services to regulate the traffic would be minor due to the relatively small size and temporary nature of the operation. In addition, it would be unlikely that the crushing/screening facility would have an impact on demands of government services of any future area of operation because the facility would likely be operated in a previously disturbed industrial area typically used for such operations. Therefore, such operations would have only minor impacts to the demands on government services of any future site. Overall, the demand of government services would be minor.

J. Industrial and Commercial Activity

The crushing/screening facility would represent only a minor increase in the industrial activity in any given area due to the relatively small size of the operation. No additional industrial or commercial activity would result solely from the operation of the crushing/screening facility, but some of the product may be supplied to industrial and commercial sources. Any impacts to industrial and commercial activities of any given area would be negligible due to the relatively small size and seasonal nature of the operation.

K. Locally Adopted Environmental Plans and Goals

Permit #3219-00 would allow the crushing/screening facility to operate at various locations around the state. Permit #3219-00 would include conditions to ensure that ambient air quality standards are not exceeded in the areas that the facility would operate and the surrounding environment. Therefore, there would not be any impacts expected on locally adopted environmental plans and goals.

L. Cumulative and Secondary Impacts

Overall, impacts to the social and economic aspects of the human environment from this project would be minor because new businesses would not be drawn to the area and permanent jobs would not be created or lost due to the operation of the crushing/screening facility. Because a relatively small number of new employees would be hired due to the operation of the crushing/screening facility, there would be no economic impacts from new employees. In addition, any social and economic impacts would be minor and short-lived because of the relatively small size, and the seasonal and temporary nature of the operation.

Recommendation: An EIS is not required.

If an EIS is not required, explain why the EA is an appropriate level of analysis: Because this crushing/screening facility is a relatively small portable source and must use pollution controls and reasonable precautions to control emissions, it is unlikely there would be any impacts other than minor impacts.

Other groups or agencies contacted or which may have overlapping jurisdiction: Montana Historical Society - State Historic Preservation Office (SHPO), Montana Natural Heritage Program - National Resource Information System (NRIS), and the Department of Environmental Quality - Industrial and Energy Minerals Bureau.

Individuals or groups contributing to this EA: Department of Environmental Quality Permitting and Compliance Division (Air and Waste Management Bureau and Industrial and Energy Minerals Bureau), SHPO, and NRIS.

EA prepared by: Pat Driscoll

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