



Montana Department of  
**ENVIRONMENTAL QUALITY**

Brian Schweitzer, Governor

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September 16, 2011

Jeremiah Johnson  
Johnson Redi-Mix LLC  
P.O. Box 645  
Chester MT, 59522

Dear Mr. Johnson,

Montana Air Quality Permit #4677-00 is deemed final as of September 16, 2011, by the Department of Environmental Quality (Department). This permit is for a Wash Plant and Concrete Batch 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,

Vickie Walsh  
Air Permitting Program Supervisor  
Air Resources Management Bureau  
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VW:CH  
Enclosures

DEPARTMENT OF ENVIRONMENTAL QUALITY  
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Air Resources Management Bureau  
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**FINAL ENVIRONMENTAL ASSESSMENT (EA)**

*Issued For:* Johnson Redi-Mix LLC  
P.O. Box 645  
Chester, MT 59522

*Permit Number:* #4677-00

*Preliminary Determination on Permit Issued:* 8/11/2011

*Department Decision Issued:* 8/31/11

*Permit Final:* 9/16/2011

1. *Legal Description of Site:* Johnson submitted an application to operate a portable wash plant and portable concrete batch plant. The location of the wash plant will be at the SE $\frac{1}{4}$  of the SW $\frac{1}{4}$  of Section 18, Township 29 North, Range 6 East, Liberty County Montana. The location of the concrete batch plant will be in the southwest corner of the SE $\frac{1}{4}$  of the NE $\frac{1}{4}$  of Section 21, Township 32 North, Range 6 East, Liberty County, Montana. In addition, Permit # 4677-00 would apply while operating at any location in the state of Montana, except within those areas having a Department approved permitting program. *A Missoula County air quality permit would be required for locations within Missoula County, Montana.*
2. *Description of Project:* The permit application is for the construction and operation of a portable wash plant and portable concrete batch plant. The wash plant has a maximum capacity of 25 yd<sup>3</sup>/hr and the concrete plant a maximum capacity of 75 yd<sup>3</sup>/hr. Each site also has a 225 hp diesel generator and associated equipment. The process description is discussed in the permit analysis Section I.B of Permit # 4677-00.
3. *Objectives of Project:* The permit would allow Johnson to utilize aggregate and cement for the production of concrete to sell to customers in construction.
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 Johnson 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 # 4677-00.
6. *Regulatory Effects on Private Property Rights:* The Department considered alternatives to the conditions imposed in this permit as part of the permit development. The Department determined the permit conditions would be 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 would use the same areas that the concrete batch plant operations occupy. However, the concrete batch plant operations alone would present only minor impacts upon terrestrial life in the area because of the temporary nature of the operation. It is not expected that aquatic life would be significantly affected. The batch concrete site location is east of the Great Northern Reservoir. The wash plant location is at a surface gravel mine operation so significant impacts are not expected.

B. Water Quality, Quantity, and Distribution

Although there would be an increase in air emissions in the area where the concrete batch plant facility would operate, there would be minor impacts on water quality, quantity, and distribution because of the temporary nature, size, operational requirements, and conditions placed in Permit # 4677-00 for the facility. Further, as described in Section 7.F of this EA, the Department determined that any impacts from deposition of pollutants would be minor. In addition, any accidental spills or leaks from equipment would be required to be handled according to the appropriate environmental regulations in an effort to minimize any potential adverse impact on the immediate and surrounding area. Water would be used for dust suppression, but would only cause a minor disturbance to the area.

C. Geology and Soil Quality, Stability, and Moisture

As a result of the portable concrete batch plant operation, there would be minor impacts to the geology and soil quality, stability, and moisture near the equipment’s operational area because of the increased vehicle traffic and deposition of pollutants the facility. As explained in Section 7.F of this EA, the facility’s size, operational requirements, temporary nature of the operation, and conditions placed in Permit #4677-00 would minimize the impacts from deposition. In addition, the facility would be relatively small in size. Disturbance for the siting of the equipment would be new but the physical disturbance size would be limited to the equipment specified within Permit #4677-00 and thereby limiting the potential impact to the local geology and soil quality, stability, and moisture.

D. Vegetation Cover, Quantity, and Quality

Because small amounts of vegetation would be disturbed during the setup of the portable concrete batch plant operations, and small amounts of pollutant deposition would occur on the surrounding vegetation, there would be minor impacts on the local vegetative cover, quantity, and quality. As explained in Section 7.F of this EA, the Department determined that as a result of the size and nature of the operation and conditions placed in Permit #4677-00, any impacts on vegetative cover, quantity, and quality from the deposition of pollutants would be minor.

E. Aesthetics

The concrete batch plant operations would be visible to some of the closest neighbors and would create additional noise in the area. However, Permit #4677-00 would include conditions to control emissions, including visible emissions, from the plant. The facility would be relatively small and likely in operation to support projects in close proximity to the facility. Therefore, any aesthetic and noise impacts would be minor.

F. Air Quality

The air quality emission impacts from the concrete batch plant operations would be minor because Permit #4677-00 would include conditions limiting the visible emissions (opacity) from the plant and reducing the hours of operation to reduce the emissions of air pollution. In addition, the facility would be required to utilize water spray bars and other means to control air pollution. The operations would be limited by Permit #4677-00 to total particulate emissions of 250 tons/year or less from non-fugitive sources at the plant, in addition to any additional equipment at the site. Because of the size and temporary nature of the operation and conditions placed in Permit #4677-00, impacts from the deposition of pollutants would be minor.

G. Unique Endangered, Fragile, or Limited Environmental Resources

The proposed project would have a minor impact on any unique endangered, fragile, or limited environmental resources. The Department, in an effort to identify any species of special concern associated with the proposed site location, contacted the Montana Natural Heritage Program (MNHP). Search results have concluded there are six species of concern in the area. Area, in this case, is defined by the township, range and section of the proposed site, with an additional one-mile buffer. The species of concern identified in the search include the following vertebrate animals:

1. Loggerhead Shrike (sensitive)
2. Brewer's Sparrow (sensitive)
3. Long-billed Curlew (sensitive)
4. Baird's Sparrow (sensitive)
5. McCown's Longspur (sensitive)
6. Chestnut collared Longspur (sensitive)

Some new minor, if any impacts are likely within the immediate footprint of the batch concrete plant as the land most recently was in the CRP program.

The wash plant site was also checked relative to unique endangered, fragile or limited environmental resources. This location also listed the Long-billed Curlew, Chestnut collard Longspur, and Loggerhead Shrike. In addition, the wash plant location also listed the following vertebrate animals:

1. Black-tailed Prairie Dog (sensitive)
2. Blue Sucker (sensitive)
3. Sauger (sensitive)
4. Great Blue Heron

At the wash plant, no impacts are expected given it currently is a developed gravel operation.

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

The operation of the concrete batch plant facility would only require small quantities of water, air, and energy for proper operation, due to the relatively small size of the facility. Small amounts of water would be used for dust control on the surrounding roadways and job site as well as the for the concrete batch plant operation. As described in Section 7.F of this EA, pollutant emissions generated from the facility would have minimal impacts on air quality in the immediate and surrounding area. Energy would be generated from the portable generator, so no other sources of power would be necessary to operate the facility. A future process change may be the extension of permanent power to the site, which would make the generator only used for back-up power and would mitigate local impacts. The generator would consume energy in the form of diesel fuel, a non-renewable resource. Overall, the equipment is relatively small and would have operational restrictions placed in Permit #4677-00. Because the facility operations would be seasonal and temporary, demands and impacts to the environmental resource of water, air and energy would be minor.

I. Historical and Archaeological Sites

The concrete batch plant operations would locate in an area formerly within CRP property. According to the Montana State Historic Preservation Office, there is low likelihood of adverse disturbance to any known archaeological or historic site, given previous industrial disturbance within the area. Therefore, the operation would not have an effect on any known historic or archaeological site. Similarly, because the wash plant location is within an existing surface mine area for gravel, no resources would be expected to be impacted at this location.

J. Cumulative and Secondary Impacts

The concrete batch plant operations would cause minor cumulative and secondary impacts to the physical and biological environment in the immediate area because the plant would generate emissions of particulate matter and PM-10. The Department expects this facility to operate in compliance with all applicable rules and regulations as would be outlined in Permit #4677-00.

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 Department has prepared the following comments.

A. Social Structures and Mores

The operation of the concrete batch plant facility would not alter or disrupt any local lifestyles or communities (social structures or mores) in the area of operation because the facility would be relatively small and would operate intermittently. Therefore, the existing social structures and mores would not be affected as a result of this permitting action.

B. Cultural Uniqueness and Diversity

The concrete batch plant operations would have no impact on the cultural uniqueness and diversity of the area because the source would be small and temporary and would be operating in a permitted open cut pit. Furthermore, the area surrounding the proposed site would remain predominantly unchanged because Johnson would operate a small and temporary facility.

C. Local and State Tax Base and Tax Revenue

The concrete batch plant operations would have little, if any, effect on the local and state tax base and tax revenue because the facility would be a seasonal source; therefore, it would not remain at any individual site for an extended period of time. Johnson would expect to employ 4 employees on a seasonal or temporary basis.

D. Agricultural or Industrial Production

The concrete batch plant operations proposed project would locate in a parcel previously part of CRP. Minor and temporary affects could occur to the former CRP land, but IEMB would be responsible for oversight of any reclamation activities. Topsoil has been scraped and saved from the disturbed acreage with rehabilitation possible when and if the batch concrete plant ceases operation. Further, the concrete batch plant operations would be small by industrial standards and, thus, would have only a minor impact on local industrial production.

E. Human Health

Permit #4677-00 would incorporate conditions to ensure that the concrete batch plant operations 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. Since these conditions would be incorporated, only minor impacts would be expected from this concrete batch plant facility.

F. Access to and Quality of Recreational and Wilderness Activities

The concrete batch plant operations would not affect any access to recreational and wilderness activities because of the lack of wilderness areas in the proximity. However, minor effects on the quality of recreational activities would be created by noise from the site as some recreational may occur on the water body known as the Great Northern Reservoir located west of the batch concrete site. It is not known whether legal public access is available to the Great Northern Reservoir or whether it is private property with no access.

G. Quantity and Distribution of Employment

The concrete batch plant operations would have a minor effect on the quantity and distribution of employment in the area because Johnson would only use 4 employees for the project. These employees would be employed by Johnson on a seasonal or temporary basis and would not likely permanently locate to the area.

H. Distribution of Population

The concrete batch plant operations would not disrupt the normal population distribution in the area because of the remote location of the site and the size of the operations.

I. Demands of Government Services

Minor increases would be seen on traffic on existing roadways in the area while the concrete batch plant operations are in progress. In addition, government services would be required for acquiring the appropriate permits from government agencies. Demands for government services would be minor.

J. Industrial and Commercial Activity

The concrete batch plant operations would represent only a minor increase in the industrial activity in the given area because small size of the operations and the portable and seasonal nature of the facility. Traffic between the wash plant site and batch concrete site would see some additional increase in industrial traffic. No other known additional industrial or commercial activity would be expected as a result of the proposed operation.

K. Locally Adopted Environmental Plans and Goals

The Department is not aware of any locally adopted environmental plans or goals that would be affected by the proposed project. The state and national ambient air quality standards would protect the proposed site and the environment surrounding the site.

L. Cumulative and Secondary Impacts

The concrete batch plant operations would cause minor cumulative and secondary impacts to the social and economic environment in the immediate area because the facility is a portable, temporary source. Small increases in traffic would have minor effects on local traffic in the immediate area. Because the source is a relatively small, temporary source, only minor economic impacts to the local economy could be expected from the operation of the facility. The Department believes that this facility could be expected to operate in compliance with all applicable rules and regulations as would be outlined in Permit #4677-00.

*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. In addition, the source would be applying the Best Available Control Technology and the analysis indicates compliance with all applicable air quality rules and regulations.

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

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

EA Prepared By: Craig Henrikson  
July 27, 2011