



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 NORTH HILTON • BOISE, IDAHO 83706 • (208) 373-0502

JAMES E. RISCH, GOVERNOR
TONI HARDESTY, DIRECTOR

August 7, 2006

Certified Mail No. 7005 1160 0000 1550 6865

John Green
Americrete Ready-Mix Concrete, Inc. DBA – G & B Redi-Mix
6701 East Flamingo Avenue
Nampa, ID 83687

RE: Facility ID No. 777-00384, G & B Redi-Mix, Portable
Final Permit Letter

Dear Mr. Green:

The Idaho Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-060019 to G & B Redi-Mix, in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho).

This permit is based on your permit application received on May 2, 2006. This permit does not release G & B Redi-Mix from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

A representative of the Boise Regional Office will contact you regarding a meeting with DEQ to discuss the permit terms and requirements. DEQ recommends the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with permit conditions.

Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to call Bill Rogers at (208) 373-0502 to address any questions or concerns you may have with the enclosed permit.

Sincerely,

Martin Bauer, Administrator
Air Quality Division

MB/TD/bf

Permit No. P-060019

Enclosures

c: **Leonard Herr, Boise Regional Office**
 Bill Rogers, Permit Coordinator
 Shawnee Chen, P.E., Senior Engineer
 Marilyn Seymore/ Pat Rayne, Air Quality Division
 Laurie Kral, US EPA Region 10
 Permit Binder
 Source File
 Phyllis Heitman (Ltr Only)
 Reading File (Ltr Only)



**Air Quality
PERMIT TO CONSTRUCT**

**State of Idaho
Department of Environmental Quality**

PERMIT No.: P-060019

FACILITY ID No.: 777-00384

CLASS: B SIC: 3273

UTM COORDINATE (km): Portable

1. PERMITTEE

Americrete Ready Mix Concrete, Inc. Dba G & B Redi-Mix

2. PROJECT

Initial Permit to Construct – Concrete Batch Plant

3. MAILING ADDRESS

6701 East Flamingo Avenue

CITY

Nampa

STATE

ID

ZIP

83687

4. FACILITY CONTACT

Richard Reed

TITLE

Health & Safety Manager

TELEPHONE

(208) 447-9718

5. RESPONSIBLE OFFICIAL

John Green

TITLE

Vice President

TELEPHONE

(208) 466-6688

6. EXACT PLANT LOCATION

Portable, initial location is East Amity Road, Boise

COUNTY

Portable, initial location is Ada

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

Concrete Manufacturing

8. GENERAL CONDITIONS

This permit is issued according to IDAPA 58.01.01.200, Rules for the Control of Air Pollution in Idaho, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.

This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.

This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented with its application. Changes of design or equipment may require DEQ approval pursuant to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200, et seq.


**TONI HARDESTY, DIRECTOR
DEPARTMENT OF ENVIRONMENTAL QUALITY**

DATE ISSUED: August 7, 2006

Table of Contents

ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE.....	3
1. PERMIT TO CONSTRUCT SCOPE.....	4
2. CONCRETE BATCH PLANT.....	5
4. PERMIT TO CONSTRUCT GENERAL PROVISIONS.....	11

Acronyms, Units, and Chemical Nomenclature

acfm	actual cubic feet per minute
AQCR	Air Quality Control Region
cy/hr	cubic yards per hour
DEQ	Department of Environmental Quality
ft	feet
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
O&M	operations and maintenance
PERF	Portable Equipment Registration and Relocation Form
PM	particulate matter
PM₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PTC	permit to construct
SIC	Standard Industrial Classification
T/yr	tons per year
UTM	Universal Transverse Mercator

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060019

Permittee:	G & B Redi-Mix	Facility ID No. 777-00384	Date Issued:	August 7, 2006
Location:	Portable			

1. PERMIT TO CONSTRUCT SCOPE

Purpose

1.1 This Permit to Construct (PTC) allows for the construction of a portable concrete batch plant and a portable natural gas fired boiler. This PTC is the facility's initial permit.

Regulated Sources

Table 1.1 lists all sources of regulated emissions in this PTC.

Table 1.1 REGULATED EMISSIONS SOURCES

Permit Section	Source Description	Emissions Control(s)
2	<p><u>Concrete batch plant:</u> Manufacturer: Stephens Manufacturing Company, Inc. Model: Thoroughbred portable batch Maximum throughput rate: 120 cubic yard of concrete per hour (cy/hr)</p> <p>The plant has the following major components:</p> <ul style="list-style-type: none"> • Cement silo consists of two compartments – split 60/40 • 14 cubic yard cement batcher • 4 compartment aggregate bin • 12 cubic yard aggregate batcher 	<p><u>C & W central dust collection system</u> Manufacturer: C & W Manufacturing Co. Inc. Model: CPR-6500-H PM₁₀ control efficiency: 99.99%</p> <p><u>Cement weight batcher safety/emergency dust collector:</u> Manufacturer: Stephens manufacturing company Model: SV 20 Vent PM control efficiency: 99.96%</p>
3	<p><u>Boiler:</u> Natural gas fired Manufacturer: Pearson Model No.: P-10-20W Fuel Flow gas (maximum MMBtu/hr): 2.8</p>	None

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060019

Permittee:	G & B Redi-Mix	Facility ID No. 777-00384	Date Issued:	August 7, 2006
Location:	Portable			

2. CONCRETE BATCH PLANT

2.1 Process Description

The portable concrete batch plant is a Stephens Thoroughbred mobile gravity transit mix plant. The components of the plant are as follows: a two-compartment cement storage silo -60/40 split, one 14 cubic yard cement batcher, a four-compartment overhead aggregate bin, and one 12 cubic yard aggregate batcher. The plant combines sand, gravel, cement, cement supplement if needed, and water to produce concrete. Electricity for the plant is supplied by the local electric utility company.

2.2 Emissions Control Description

The particulate matter emissions from the cement silo, the cement weigh batcher, and truck mix loading are controlled by a C & W central dust collection system. A Stephens SV20 Vent dust collector is used as a safety measure, in case of emergency, to control particulate matter emissions from the cement weigh batcher.

Table 2.1 CEMENT STORAGE SILO DESCRIPTION

Emissions Unit(s) / Process(es)	Emissions Control Device	Emissions Point
The cement silo, the cement weigh batcher, and truck mix loading	C & W central dust collection system	C & W central dust collection system stack with the following stack parameters: Stack height: 7 ft 9 inch Stack opening: 14 7/16 inch x 19 1/6 inch or equivalent stack diameter of 1.56 ft. Exit air flow rate : 5,000 actual cubic feet per minute (acfm)
The cement weigh batcher	Stephens SV20 Vent dust collector (used as a safety measure, in case of emergency)	Stephens SV20 Vent dust collector stack with the following stack parameters: Stack height: 27 ft 1/2 inch Stack opening: 10 inch x 13 inch or equivalent stack diameter of 1.07 ft. Exit air flow rate +/- 500 (acfm)

Emissions Limits

2.3 Emissions Limits

- Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometer (PM₁₀) emissions from the C & W central dust collection system stack shall not exceed 9.13 pounds per any 24-hour period.
- Arsenic emissions from the C & W central dust collection system stack shall not exceed 0.18 pounds per any consecutive 12-month period.
- Beryllium emissions from the C & W central dust collection system stack shall not exceed 0.0164 pounds per any consecutive 12-month period.
- Nickel emissions from the C & W central dust collection system stack shall not exceed 0.72 pounds per any consecutive 12-month period.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060019

Permittee:	G & B Redi-Mix	Facility ID No. 777-00384	Date Issued:	August 7, 2006
Location:	Portable			

2.4 Visible Emissions Limit

Emissions from the C & W central dust collection system stack, the Stephens SV20 Vent dust collector stack, or any other stack, vent, or functionally equivalent opening associated with this portable concrete batch plant, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

2.5 Concrete Production Limit

- The concrete production rate shall not exceed 1,440 cubic yard per day.
- The concrete production rate shall not exceed 500,000 cubic yards per any consecutive 12-month period.

2.6 Operations and Maintenance Manual

Within 60 days of permit issuance, the permittee shall have developed an O&M manual for the dust collectors, which controls the PM and PM₁₀ emissions from the plant (i.e. cement silo, cement weigh batcher, and truck mix loading). The O&M manual shall describe the procedures that will be followed to comply with General Provision 2 and the manufacturer specifications for the dust collectors. The manual shall contain, at a minimum, requirements for monthly inspections of the dust collectors during each month of operation. The inspections shall include but not be limited to checking the cartridges for structural integrity and that they are appropriately secured in place. The manual shall remain on site at all times and shall be made available to DEQ representatives upon request. Once developed, a copy of the manual shall be submitted for review to DEQ's Boise Regional Office at the following address:

Air Quality Permit Compliance
Department of Environmental Quality
Boise Regional Office
1445 N. Orchard
Boise, ID 83706

The permittee shall operate the dust collectors in accordance with the O&M manual.

2.7 Fugitive Dust Control Strategies

The permittee shall immediately implement a strategy or strategies to control fugitive dust emissions whenever:

- 2.7.1 Visible fugitive emissions are greater than 20% from any transfer point. For the purposes of this permit condition, transfer points include, but are not limited to, the following: transfer of sand and aggregate to respective weight bins/hoppers or storage bins/hoppers; transfer of sand and aggregate from respective weight bins/hoppers or storage bins/hoppers to a conveyor; transfer of sand and aggregate from a conveyor to the mix truck; transfer of cement and cement supplement if needed, from the storage silo(s) to the mix truck.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060019

Permittee:	G & B Redi-Mix	Facility ID No. 777-00384	Date Issued:	August 7, 2006
Location:	Portable			

Transfer point control strategies include, but are not limited to, the following: limit drop heights such that there is a homogeneous flow of material; install, operate, and maintain water spray bars to control fugitive dust emissions at transfer points on conveyors.

- 2.7.2 Visible fugitive emissions from wind erosion on stockpiles exceeds 20% opacity for a period or periods aggregating more than one minute in any 60-minute period.

Stockpile wind erosion control strategies include, but are not limited to, the following: limit the height of the stockpiles; limit the disturbance of stockpiles; apply water or a chemical dust suppressant onto the surface of the stockpile.

- 2.7.3 Visible fugitive emissions from vehicle traffic on any paved or unpaved roads within the facility boundary of the concrete batch plant exceeds 20% opacity for a period or periods aggregating more than one minute in any 60-minute period.

Visible fugitive emissions control strategies for vehicle traffic on paved and unpaved roads within the facility boundary include, but are not limited to, the following: limit vehicle traffic; limit vehicle speed; apply water or a chemical dust suppressant to the surface of the road; apply gravel to the surface of unpaved roads; and sweep or use water sprays to clean the surface of a paved road.

2.8 Reasonable Control of Fugitive Emissions

All reasonable precautions shall be taken to prevent particulate matter (PM) from becoming airborne in accordance with IDAPA 58.01.01.650-651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and/or activities and atmospheric conditions that might affect the movement of PM. Some of the reasonable precautions include, but are not limited to, the following:

- Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of lands.
- Application, where practical, of asphalt, water, or suitable chemicals to, or covering of, dirt roads, material stockpiles, and other surfaces which can create dust.
- Installation and use, where practical, of hoods, fans, and fabric filters or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations.
- Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts.
- Paving of roadways and their maintenance in a clean condition, where practical.
- Prompt removal of earth or other stored material from streets, where practical.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060019

Permittee:	G & B Redi-Mix	Facility ID No. 777-00384	Date Issued:	August 7, 2006
Location:	Portable			

Monitoring and Recordkeeping Requirements

2.9 Concrete Production Rate Monitoring

The permittee shall monitor and record, when operating, the daily, monthly and annual concrete production to demonstrate compliance with Permit Condition 2.5. Annual throughput shall be determined by summing each monthly production total over the previous consecutive 12-month period. These records shall remain on site for the most recent two-year period and shall be made available to DEQ representatives upon request.

2.10 Visible Emissions Monitoring

During any month that the facility is operated, the permittee shall conduct a monthly facility-wide inspection of the dust collectors, during daylight hours and under normal operating conditions. The inspection shall consist of a see/no see evaluation for each potential source of visible emissions. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each visible emission inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

2.11 Reasonable Control Measures

During any month that the facility is operated, the permittee shall conduct a monthly facility-wide inspection of potential sources of fugitive emissions, during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each quarterly fugitive emissions inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.

Nonattainment Area Requirements

2.12 PM₁₀ Nonattainment Area Operations

The portable truck mix concrete batch plant shall not operate at PM₁₀ nonattainment areas under this permit. The permittee may contact DEQ for more specific details about PM₁₀ nonattainment area boundaries. Prior to relocation to any area, including nonattainment areas, the permittee must comply with the requirements in Permit Condition 2.14.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060019

Permittee:	G & B Redi-Mix	Facility ID No. 777-00384	Date Issued:	August 7, 2006
Location:	Portable			

Should the permittee desire to operate at PM₁₀ nonattainment areas, the permittee shall submit an air quality permit to construct application that requests authorization to locate and operate within the PM₁₀ nonattainment area.

Reporting Requirements

2.13 Records

Records required in this permit shall remain on site for the most recent two-year period and shall be made available to DEQ representatives upon request.

2.14 Relocation

All existing portable equipment shall be registered. At least 10 days prior to relocation of any equipment covered by this permit, the permittee shall submit a scaled plot plan and a complete Portable Equipment Registration and Relocation Form (available on DEQ website at http://www.deq.idaho.gov/air/permits_forms/forms/ptc_relocation.pdf), in accordance with IDAPA 58.01.01.500, to the following address:

PERF Processing Unit
DEQ - Air Quality
1410 N. Hilton
Boise, ID 83706-1255

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060019

Permittee:	G & B Redi-Mix	Facility ID No. 777-00384	Date Issued:	August 7, 2006
Location:	Portable			

3. BOILER

3.1 Process Description

A small 2.8 MMBtu/hr Pearson Heating Systems, Inc., portable boiler with an attached water tank is used to produce hot water for concrete mixing during cold temperatures (winter months) for optimum concrete quality. The boiler is fueled exclusively by natural gas.

3.2 Emissions Control Description

Emissions from the boiler are uncontrolled.

3.3 Visible Emissions Limit

The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

3.4 Grain Loading for Fuel Burning Equipment

In accordance with 58.01.01.677, the permittee shall not discharge into the atmosphere from any fuel burning equipment with a maximum rated input of less than 10 MMBtu per hour, particulate matter in excess of 0.015 grains per dry standard cubic foot (gr/dscf) of effluent gas corrected to 3% oxygen by volume for gas.

Operating Requirements

3.5 Allowable fuel Types for the Boiler

The boiler shall be fired by natural gas exclusively.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060019

Permittee:	G & B Redi-Mix	Facility ID No. 777-00384	Date Issued:	August 7, 2006
Location:	Portable			

4. PERMIT TO CONSTRUCT GENERAL PROVISIONS

1. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
2. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
3. The permittee shall allow the Director, and/or the authorized representative(s), upon the presentation of credentials:
 - To enter, at reasonable times, upon the premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit.
 - At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and require stack compliance testing in conformance with IDAPA 58.01.01.157 when deemed appropriate by the Director.
4. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
5. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211.01 and 211.03:
 - A notification of the date of initiation of construction, within five working days after occurrence;
 - A notification of the date of completion/cessation of construction, within five working days after occurrence;
 - A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
 - A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
 - A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date
6. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060019

Permittee:	G & B Redi-Mix	Facility ID No. 777-00384	Date Issued:	August 7, 2006
Location:	Portable			

All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

7. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
8. In accordance with IDAPA 58.01.01.123, all documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.