



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502

C.L. "Butch" Otter, Governor  
Toni Hardesty, Director

April 27, 2009

**Certified Mail No. 7190 0596 0014 0000 6152**

Cal Low, President  
Low's Ready Mix, Inc.  
10340 Hwy. 20/26  
Caldwell, ID 83605

RE: Facility ID No. 027-00094, Low's Ready Mix, Inc., Caldwell  
Final Permit Letter

Dear Mr. Low:

The Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-2009.0004 to Low's Ready Mix, Inc. for the installation of a new silo, a new portable chain conveyor, and a new 70 cubic yard per hour concrete batch plant located at Caldwell, 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 January 7, 2009. This permit is effective immediately and replaces PTC No. P-050031, issued on November 4, 2005, the terms and conditions of which no longer apply. This permit does not release Low's Ready Mix, Inc. from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

Pursuant to General Provision 5 of your permit, it is required that Construction and Operation Notification be provided. Please provide this information as listed to DEQ's Boise Regional Office, 1445 N. Orchard, Boise, ID 83706-2239 Fax (208) 373-0287.

In order to fully understand the compliance requirements of this permit, DEQ highly recommends that you schedule a meeting with Tom Krinke, Air Quality Science Officer, at (208) 373-0550 to review and discuss the terms and conditions of this permit. Should you choose to schedule this meeting, DEQ recommends the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any other staff responsible for day-to-day compliance with permit conditions.

Low's Ready Mix, Inc., Caldwell  
Page 2

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 contact Darrin Pampaian at (208) 373-0502 or [darrin.pampaian@deq.idaho.gov](mailto:darrin.pampaian@deq.idaho.gov) to address any questions or concerns you may have with the enclosed permit.

Sincerely,



Mike Simon  
Stationary Source Program Manager  
Air Quality Division

MS\DRP\hp

Project No. P-2009.0004

Enclosure



**Air Quality**  
**PERMIT TO CONSTRUCT**  
 State of Idaho  
 Department of Environmental Quality

**PERMIT No.:** P-2009.0004  
**FACILITY ID No.:** 027-00094  
**AQCR:** 64      **CLASS:** SM      **ZONE:** 11  
**SIC:** 3273      **NAICS:** 327320  
**UTM COORDINATE (km):** 532.2, 4834.9

**1. PERMITTEE**

Low's Ready Mix, Inc.

**2. PROJECT**

Permit Modification – Installation of a new portable concrete batch plant, an additional cement storage silo, and a new portable chain conveyor.

**3. MAILING ADDRESS**

10340 Highway 20/26

**CITY**

Caldwell

**STATE**

ID

**ZIP**

83605

**4. FACILITY CONTACT**

Cal Low

**TITLE**

President

**TELEPHONE**

(208) 795-5983

**5. RESPONSIBLE OFFICIAL**

Cal Low

**TITLE**

President

**TELEPHONE**

(208) 795-5983

**6. EXACT PLANT LOCATION**

10340 Highway 20/26, Caldwell, ID

**COUNTY**

Canyon

**7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**

Concrete batch plant

**8. PERMIT AUTHORITY**

This permit is issued according to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200 through 228, 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 in design, equipment or operations may be considered a modification. Modifications are subject to DEQ review in accordance with IDAPA 58.01.01.200 through 228 of the Rules for the Control of Air Pollution in Idaho.

**DARRIN PAMPAIAN, PERMIT WRITER**  
 DEPARTMENT OF ENVIRONMENTAL QUALITY

**MIKE SIMON, STATIONARY SOURCE PROGRAM MANAGER**  
 DEPARTMENT OF ENVIRONMENTAL QUALITY

**DATE MODIFIED/REVISED:**

April 27, 2009

**DATE ISSUED:**

November 4, 2005

## Table of Contents

ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE .....	3
1. PERMIT TO CONSTRUCT SCOPE.....	4
2. CENTRAL MIX CONCRETE BATCH PLANT .....	6
3. TRUCK MIX CONCRETE BATCH PLANT .....	13
4. PERMIT TO CONSTRUCT GENERAL PROVISIONS .....	18

## Acronyms, Units, and Chemical Nomenclature

acfm	actual cubic feet per minute
AQCR	Air Quality Control Region
CAA	Clean Air Act
CBP	concrete batch plant
CFR	Code of Federal Regulations
CO	carbon monoxide
cy	cubic yards
cy/hr	cubic yards per hour
cy/day	cubic yards per day
cy/yr	cubic yards in any consecutive 12-calendar month period
DEQ	Department of Environmental Quality
EPA	U.S. Environmental Protection Agency
ft <sup>2</sup>	square foot
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pounds per hour
m	meter(s)
MACT	Maximum Achievable Control Technology
MMBtu	million British thermal units
NAICS	North American Industry Classification System
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	nitrogen oxides
PM	particulate matter
PM <sub>10</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PTC	permit to construct
SIC	Standard Industrial Classification
SM	synthetic minor
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	sulfur oxides
T/yr	tons per consecutive 12-calendar month period
TAP	toxic air pollutant
UTM	Universal Transverse Mercator
VE	visible emissions
VOC	volatile organic compound

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

**Permittee:** Low's Ready Mix, Inc.

**Location:** Caldwell, Idaho

**Facility ID No. 027-00094**

**1. PERMIT TO CONSTRUCT SCOPE**

**Purpose**

- 1.1 The purpose of this permitting action is to allow for the installation of a new portable 70 cy/hr concrete batch plant (CBP), one additional cement storage silo, and a new portable cement chain conveyor at Low's Ready Mix – Caldwell (Low's). Although the new equipment is portable, this permit allows operation only at the Caldwell facility location listed on the front page of the permit. This permitting action modifies the facility's existing permit, which established enforceable requirements for the facility's operations involving a 260 cy/hr central mix concrete batch plant, and the other significant emission sources at the facility in accordance with the *Rules for the Control of Air Pollution in Idaho*.
- 1.2 Those permit conditions that have been modified or revised by this permitting action are identified by a date citation located directly under the permit condition and on the right hand margin.
- 1.3 This PTC replaces PTC No. P-050031, issued on November 4, 2005, the terms and conditions of which shall no longer apply.

**Regulated Sources**

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

**Table 1.1 SUMMARY OF REGULATED SOURCES**

Permit Section	Source Description	Emissions Control
2.	<u>Central mix concrete batch plant with a 12 cubic yard Erie tilt mixer and a four compartment aggregate storage bin</u> Manufacturer: Erie Strayer Co. Model: N/A Max. Production Rate: 260 cy/hr Max. Daily Production: 6,240 cy/day Max. Annual Production: 2,277,600 cy/yr	<u>Central mix dust collector</u> Manufacturer: C&W Model: BP-790 Filtration area: 785 ft <sup>2</sup> Blower: 5,000 ACFM Cleaning Mechanism: Pulse jet PM <sub>10</sub> control efficiency: 99.90%
2.	<u>Three compartment (North, Mid, and South) cement storage bin</u>	<u>Three identical silo dust collectors</u> Manufacturer: C&W Model: LPR-6-S Filtration area: 267 ft <sup>2</sup> Cleaning Mechanism: Pulse jet PM <sub>10</sub> control efficiency: 99.99%
2.	<u>Central mix 12 cubic yard cement weigh batcher</u> Manufacturer: Erie Strayer Co. Model: N/A Capacity: 12 cy	<u>Weigh batcher dust collector</u> Manufacturer: C&W Model: CP-35 Filtration area: 36 ft <sup>2</sup> Blower: 140 ACFM Cleaning Mechanism: Pulse jet PM <sub>10</sub> control efficiency: 99.99%

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

**Table 1.1 SUMMARY OF REGULATED SOURCES (continued)**

<b>Permit Section</b>	<b>Source Description</b>	<b>Emissions Control</b>
3.	<u>Truck mix concrete batch plant with an 8 cubic yard weigh hopper and a three-stage aggregate storage bin</u> Manufacturer: Vince Hagan Co. Model: 8300-65A Max. Production Rate: 70 cy/hr Max. Daily Production: 1,680 cy/day Max. Annual Production: 613,200 cy/yr	<u>Truck mix dust collector</u> Manufacturer: Vince Hagan Model: VHW-160 Blower: 480 ACFM Cleaning Mechanism: Electric vibrator PM <sub>10</sub> control efficiency: 99.8%
3.	<u>Portable chain conveyor</u> Make: RBT Model: 3600	<u>Portable chain conveyor dust collector</u> Manufacturer: Donaldson Model: UMA-100 Filtration area: 100 ft <sup>2</sup> Cleaning Mechanism: Shaker PM <sub>10</sub> control efficiency: 99.4%
3.	<u>Cement storage silo</u>	<u>Railroad siding silo dust collector</u> Manufacturer: C & W Model: CP-305 Filtration area: 356 ft <sup>2</sup> Cleaning Mechanism: Pulse jet PM <sub>10</sub> control efficiency: 99.99%

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No.</b> 027-00094
<b>Location:</b>	Caldwell, Idaho	

**2. CENTRAL MIX CONCRETE BATCH PLANT**

**2.1 Process Description**

This operation is a central mix concrete batch plant. The components of the plant are as follows: a four compartment aggregate storage bin, a 12 cubic yard aggregate batcher, three cement storage silos, a 12 cubic yard cement batcher, and a 12 cubic yard tilt mixer. The central mix plant combines sand, gravel, cement, and water to produce concrete.

**2.2 Emissions Control Description**

**Table 2.1 CENTRAL MIX CONCRETE BATCH PLANT DESCRIPTION**

<b>Emissions Unit/Process</b>	<b>Emissions Control Device</b>	<b>Emissions Point</b>
Central mix concrete batch plant with a 12 cubic yard Erie tilt mixer and a four compartment aggregate storage bin	<u>Central mix dust collector</u> Manufacturer: C&W Model: BP-790 Filtration area: 785 ft <sup>2</sup> Blower: 5,000 ACFM Cleaning Mechanism: Pulse jet PM <sub>10</sub> control efficiency: 99.90%	CDCBH
Central mix 12 cubic yard cement weigh batcher	<u>Weigh batcher dust collector</u> Manufacturer: C&W Model: CP-35 Filtration area: 36 ft <sup>2</sup> Blower: 140 ACFM Cleaning Mechanism: Pulse jet PM <sub>10</sub> control efficiency: 99.99%	WHBH
Three compartment (North, Mid, and South) cement storage bin	<u>Three identical silo dust collectors</u> Manufacturer: C&W Model: LPR-6-S Filtration area: 267 ft <sup>2</sup> Cleaning Mechanism: Pulse jet PM <sub>10</sub> control efficiency: 99.99%	NSILOBH MSILOBH SSILOBH

[April 27, 2009]

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

**Emissions Limits**

**2.3 Emissions Limits**

The PM<sub>10</sub> emissions from the central mix dust collector, the three silo dust collectors, and the weigh batcher dust collector stacks shall not exceed any corresponding emissions rate limits listed in Table 2.2.

**Table 2.2 CENTRAL MIX CONCRETE BATCH PLANT EMISSIONS LIMITS<sup>1</sup>**

Source Description	PM <sub>10</sub>	
	lb/hr	T/yr <sup>2</sup>
Central mix concrete batch plant	0.352	1.54
Cement delivery, North silo	0.023	0.0996
Cement delivery, Mid silo	0.023	0.0996
Cement delivery South silo	0.023	0.0996
Central mix weigh batcher loading	0.00098	0.00428

- <sup>1</sup> In absence of any other credible evidence, compliance is assured by complying with this permit's operating, monitoring and record keeping requirements.
- <sup>2</sup> Tons per consecutive 12-calendar month period.

**[April 27, 2009]**

**2.4 Opacity Limit**

Emissions from any stack, vent, or functionally equivalent opening associated with the CBP facility 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. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.

**Operating Requirements**

**2.5 Cement Throughput Limit**

To demonstrate compliance with the emissions limits of permit condition 2.3 cement throughput for the North, Mid, and South cement storage silos shall not exceed 642,283 tons combined per any consecutive 12-month period.

**2.6 Concrete Production Limit**

To demonstrate compliance with the emissions limits of permit condition 2.3 concrete production for the central mix concrete batch plant shall not exceed 2,277,600 cubic yards per any consecutive 12-month period.

**[April 27, 2009]**

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

**2.7 Central Mix Dust Collector, the North, Mid, and South Cement Storage Silos, and the Central Mix Weigh Batcher Dust Collector Systems**

The permittee shall not operate the central mix concrete plant, the North, Mid, and South cement storage silos, or the central mix weigh batcher unless central mix concrete plant, the North, Mid, and South cement storage silos, or the central mix weigh batcher dust collector systems are installed and operating.

The permittee shall monitor and record visible emissions from the central mix concrete plant, the North, Mid, and South cement storage silos, or the central mix weigh batcher dust collector systems **once per day** when operating to demonstrate compliance with Permit Condition 2.4. The inspection shall consist of a see/no see evaluation for the central mix concrete plant, the North, Mid, and South cement storage silos, or the central mix weigh batcher dust collector systems. If any visible emissions are present from the central mix concrete plant, the North, Mid, and South cement storage silos, or the central mix weigh batcher dust collector systems, 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 and report the exceedance in accordance with IDAPA 58.01.01.130-136.

The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and opacity 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.

[April 27, 2009]

**2.8 Baghouse/Filter System Procedures**

Within 60 days of initial start-up, the permittee shall have developed a Baghouse/Filter System Procedures document for the inspection and operation of the baghouses/filter systems which control emissions from the central mix concrete plant, the North, Mid, and South cement storage silos, or the central mix weigh batcher. The Baghouse/Filter System Procedures document shall be a permittee developed document independent of the manufacturer supplied operating manual but may include summaries of procedures included in the manufacturer supplied operating manual.

The Baghouse/Filter System Procedures document shall describe the procedures that will be followed to comply with General Provision 2 and shall contain requirements for **daily** see-no-see visible emissions inspections of the baghouse. The inspection shall occur during daylight hours and under normal operating conditions.

The Baghouse/Filter System Procedures document shall also include a schedule and procedures for corrective action that will be taken if visible emissions are present from the baghouse at anytime. At a minimum the document shall include:

- procedures to determine if bags or cartridges are ruptured; and
- Procedures to determine if bags or cartridges are not appropriately secured in place.

The Permittee shall maintain records of the results of each baghouse/filter system inspections in accordance with General Provision 7. The records shall include a description of whether visible

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

**Permittee:** Low's Ready Mix, Inc.

**Location:** Caldwell, Idaho

**Facility ID No. 027-00094**

emissions were present and if visible emissions were present a description of the corrective action that was taken.

The Baghouse/Filter System Procedures document shall be submitted to DEQ within 60 days of permit issuance and shall contain a certification by a responsible official. Any changes to the Baghouse/Filter System Procedures document shall be submitted within 15 days of the change.

The Baghouse/Filter System Procedures document shall also remain on site at all times and shall be made available to DEQ representatives upon request.

The operating and monitoring requirements specified in the Baghouse/Filter System Procedures document are incorporated by reference to this permit and are enforceable permit conditions.

**[April 27, 2009]**

### ***Fugitive Emissions***

#### **2.9 Visible Fugitive Emission Limits at the Property Boundary**

In accordance with IDAPA 58.01.01.211.01, Reasonable Conditions, the permittee shall control fugitive emissions generated by operations associated with the CBP facility to ensure that visible fugitive emissions do not extend beyond the facility property boundary. Visible fugitive emissions shall be determined using see/no see observations. Observable emissions extending beyond the property boundary are considered evidence that fugitive emissions are not being reasonably controlled.

**[April 27, 2009]**

#### **2.10 Reasonable Control of Fugitive Emissions**

- 2.10.1 In accordance with IDAPA 58.01.01.808.01, the permittee shall not cause, allow, or permit a plant to operate that is not equipped with an efficient fugitive dust control system. The system shall be operated and maintained in such a manner as to satisfactorily control the emission of particulate matter from any point other than the stack outlet.
- 2.10.2 In accordance with IDAPA 58.01.01.808.02, the permittee shall maintain fugitive dust control of the plant premises and plant owned, leased or controlled access roads by paving, oil treatment or other suitable measures. Good operating practices, including water spraying or other suitable measures, shall be employed to prevent dust generation and atmospheric entrainment during operations such as stockpiling, screen changing, and general maintenance.
- 2.10.3 All reasonable precautions shall be taken to prevent fugitive dust from becoming airborne in accordance with IDAPA 58.01.01.650-651 and 808. In determining what is reasonable, consideration 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 particulate matter. 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 land.
  - Application, where practical, of asphalt, oil, 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, 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.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

- 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.

**2.11 Fugitive Dust Control Best Management Practices**

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

- Visible fugitive emissions generated by activities associated with this CBP facility are observed leaving the facility boundary. For the purposes of this permit condition, visible emissions shall be determined on a see/no see basis, and the facility boundary shall be defined by the facility property boundary.

2.11.2 For the purpose of the following conditions, if any visible fugitive emissions are present from these sources for the duration described below, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 22 visible emissions (VE) test.

- Visible fugitive emissions are greater than 20% from any material transfer point for a period or periods aggregating more than one minute in any 60-minute period. Reasonable transfer point fugitive control strategies for this facility include, but are not limited to, enclosing the transfer points, and limiting the drop height.
- Visible fugitive emissions from wind erosion on stockpiles exceed 20% opacity for a period or periods aggregating more than one minute in any 60-minute period. Reasonable stockpile wind erosion control strategies for this facility include, but are not limited to, limiting the height of the stockpiles, limiting the disturbance of stockpiles or covering the stockpiles during windy conditions, enclosing the piles in a 3-sided bunker or storage bin, and application of water or a chemical dust suppressant onto the surface of the stockpile.
- Visible fugitive emissions from vehicle traffic on any paved or unpaved roads within the facility boundary exceed 20% opacity for a period or periods aggregating more than one minute in any 60-minute period. Reasonable control strategies for this facility include but are not limited to limiting vehicle traffic, limiting vehicle speed, application of water or a chemical dust suppressant to the surface of the road, application of gravel to the surface of unpaved roads, sweeping or water sprays to clean the surface of a paved road, and grates, water washes, or other suitable methods to prevent track-out onto paved roads.

**[April 27, 2009]**

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

**2.12 Fugitive Emissions Monitoring and Recordkeeping**

- 2.12.1 The permittee shall conduct a facility-wide inspection of potential sources of fugitive emissions, during daylight hours and under normal operating conditions **once each calendar day** the CBP facility operates, 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 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.
- 2.12.2 The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, any corrective action taken, and the date the corrective action was taken.
- 2.12.3 The permittee shall monitor and maintain records of the frequency and the method(s) used (e.g., water, chemical dust suppressants) to reasonably control fugitive dust emissions.

[April 27, 2009]

**Monitoring and Recordkeeping Requirements**

**2.13 Cement Throughput Monitoring**

To demonstrate compliance with the cement throughput limit the permittee shall monitor and record cement throughput for the North, Mid, and South cement storage silos monthly and annually. Annual throughput shall be determined by summing total monthly concrete production over each previous consecutive 12-month period.

**2.14 Concrete Production Monitoring**

To demonstrate compliance with the concrete production limit the permittee shall monitor and record concrete production from the central mix concrete batch plant monthly and annually. Annual production shall be determined by summing total monthly concrete production over each previous consecutive 12-month period.

[April 27, 2009]

**2.15 Visible Emissions Monitoring and Recordkeeping**

The permittee shall conduct a facility-wide inspection of potential sources of visible emissions during daylight hours and under normal operating conditions **once each calendar day**, to demonstrate compliance with the opacity limit. 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 in 40 CFR 60.11 and as specified 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 actions and report the exceedance in accordance with IDAPA 58.01.01.130-136.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and opacity 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.

[April 27, 2009]

**2.16 Recordkeeping**

The permittee shall comply with the recordkeeping requirements of General Provision 7.

[April 27, 2009]

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No.</b> 027-00094
<b>Location:</b>	Caldwell, Idaho	

**3. TRUCK MIX CONCRETE BATCH PLANT**

**3.1 Process Description**

This operation is a truck mix concrete batch plant. The components of the truck mix plant are as follows: a three-stage aggregate storage bin, one cement storage silo, and an 8 cubic yard weigh hopper. The truck mix plant combines sand, gravel, and cement and delivers it dry to the cement truck mixer where it is mixed with water to produce concrete.

**3.2 Emissions Control Description**

**Table 3.1 TRUCK MIX CONCRETE BATCH PLANT DESCRIPTION**

<b>Emissions Unit/Process</b>	<b>Emissions Control Device</b>	<b>Emissions Point</b>
Truck mix concrete batch plant with an 8 cubic yard weigh hopper and a three-stage aggregate storage bin	<u>Truck mix dust collector</u> Manufacturer: Vince Hagan Model: VHW-160 Blower: 480 ACFM Cleaning Mechanism: Electric vibrator PM <sub>10</sub> control efficiency: 99.8%	CDCBH
Portable chain conveyor	<u>Portable chain conveyor dust collector</u> Manufacturer: Donaldson Model: UMA-100 Filtration area: 100 ft <sup>2</sup> Cleaning Mechanism: Shaker PM <sub>10</sub> control efficiency: 99.4%	WHBH
Cement storage silo	<u>Railroad siding silo dust collector</u> Manufacturer: C & W Model: CP-305 Filtration area: 356 ft <sup>2</sup> Cleaning Mechanism: Pulse jet PM <sub>10</sub> control efficiency: 99.99%	WHBH

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

**Permittee:** Low's Ready Mix, Inc.  
**Location:** Caldwell, Idaho

**Facility ID No. 027-00094**

***Emissions Limits***

**3.3 Emissions Limits**

The PM<sub>10</sub> emissions from the truck mix dust collector, the portable chain conveyor dust collector, and the cement storage silo dust collector stacks shall not exceed any corresponding emissions rate limits listed in Table 4.1.

**Table 3.2 TRUCK MIX CONCRETE BATCH PLANT EMISSIONS LIMITS<sup>1</sup>**

Source Description	PM <sub>10</sub>	
	lb/hr	T/yr <sup>2</sup>
Truck mix concrete batch plant	0.0184	0.0804
Portable chain conveyor	0.028	0.121
Cement storage silo	0.028	0.121

- <sup>1</sup> In absence of any other credible evidence, compliance is assured by complying with this permit's operating, monitoring and record keeping requirements.
- <sup>2</sup> Tons per consecutive 12-calendar month period.

**[April 27, 2009]**

**3.4 Opacity Limit**

Emissions from any stack, vent, or functionally equivalent opening associated with the truck mix concrete batch plant facility 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. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.

**[April 27, 2009]**

***Operating Requirements***

**3.5 Cement Throughput Limit**

To demonstrate compliance with the emissions limits of permit condition 3.3 cement throughput for the truck mix cement storage silo shall not exceed 172,922.4 tons per any consecutive 12-month period.

**[April 27, 2009]**

**3.6 Concrete Production Limit**

To demonstrate compliance with the emissions limits of permit condition 3.3 concrete production for the truck mix concrete batch plant shall not exceed 613,200 cubic yards per any consecutive 12-month period.

**[April 27, 2009]**

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.
<b>Location:</b>	Caldwell, Idaho

**Facility ID No. 027-00094**

**3.7 Truck Mix Dust Collector, Portable Chain Conveyor, and the Cement Silo Dust Collector Systems**

The permittee shall not operate the truck mix concrete plant, the portable chain conveyor, or the cement storage silo unless the truck mix dust collector, the portable chain conveyor dust collector, and the cement silo dust collector systems are installed and operating.

The permittee shall monitor and record visible emissions from the truck mix dust collector, the portable chain conveyor dust collector, and the cement silo dust collector systems once per day when operating to demonstrate compliance with Permit Condition 3.4. The inspection shall consist of a see/no see evaluation for the truck mix dust collector, the portable chain conveyor dust collector, and the cement silo dust collector systems. If any visible emissions are present from the truck mix dust collector, the portable chain conveyor dust collector, and the cement silo dust collector systems, 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 and report the exceedance in accordance with IDAPA 58.01.01.130-136.

The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and opacity 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.

**[April 27, 2009]**

**3.8 Baghouse/Filter System Procedures**

Within 60 days of initial start-up, the permittee shall have developed a Baghouse/Filter System Procedures document for the inspection and operation of the baghouses/filter systems which control emissions from the truck mix concrete plant, the portable chain conveyor, or the cement storage silo. The Baghouse/Filter System Procedures document shall be a permittee developed document independent of the manufacturer supplied operating manual but may include summaries of procedures included in the manufacturer supplied operating manual.

The Baghouse/Filter System Procedures document shall describe the procedures that will be followed to comply with General Provision 2 and shall contain requirements for **daily** see-no-see visible emissions inspections of the baghouse. The inspection shall occur during daylight hours and under normal operating conditions.

The Baghouse/Filter System Procedures document shall also include a schedule and procedures for corrective action that will be taken if visible emissions are present from the baghouse at anytime. At a minimum the document shall include:

- Procedures to determine if bags or cartridges are ruptured; and
- Procedures to determine if bags or cartridges are not appropriately secured in place.

The Permittee shall maintain records of the results of each baghouse/filter system inspections in accordance with General Provision 7. The records shall include a description of whether visible emissions were present and if visible emissions were present a description of the corrective action that was taken.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

The Baghouse/Filter System Procedures document shall be submitted to DEQ within 60 days of permit issuance and shall contain a certification by a responsible official. Any changes to the Baghouse/Filter System Procedures document shall be submitted within 15 days of the change.

The Baghouse/Filter System Procedures document shall also remain on site at all times and shall be made available to DEQ representatives upon request.

The operating and monitoring requirements specified in the Baghouse/Filter System Procedures document are incorporated by reference to this permit and are enforceable permit conditions.

[April 27, 2009]

***Monitoring and Recordkeeping Requirements***

**3.9 Cement Throughput Monitoring**

To demonstrate compliance with the cement throughput limit the permittee shall monitor and record cement throughput for the cement storage silo monthly and annually. Annual throughput shall be determined by summing total monthly cement throughput over each previous consecutive 12-month period.

[April 27, 2009]

**3.10 Concrete Production Monitoring**

To demonstrate compliance with the concrete production limit the permittee shall monitor and record concrete production from the truck mix concrete batch plant monthly and annually. Annual production shall be determined by summing total monthly concrete production over each previous consecutive 12-month period.

[April 27, 2009]

**3.11 Visible Emissions Monitoring and Recordkeeping**

The permittee shall conduct a facility-wide inspection of potential sources of visible emissions during daylight hours and under normal operating conditions **once each calendar day**, to demonstrate compliance with the opacity limit. 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 in 40 CFR 60.11 and as specified 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 actions and report the exceedance in accordance with IDAPA 58.01.01.130-136.

The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and opacity 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.

[April 27, 2009]

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

**3.12 Recordkeeping**

The permittee shall comply with the recordkeeping requirements of General Provision 7.

**[April 27, 2009]**

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

**4. PERMIT TO CONSTRUCT GENERAL PROVISIONS**

***General Compliance***

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.  

**[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.  

**[IDAPA 58.01.01.211, 5/1/94]**
3. Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules and regulations.  

**[IDAPA 58.01.01.212.01, 5/1/94]**

***Inspection and Entry***

4. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
  - a. Enter upon the permittee's premises where an emissions source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
  - b. Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
  - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  - d. As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

**[Idaho Code §39-108]**

***Construction and Operation Notification***

5. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211:
  - a. A notification of the date of initiation of construction, within five working days after occurrence;
  - b. A notification of the date of any suspension of construction, if such suspension lasts for one year or more;
  - c. 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;

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

- d. A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
- e. A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date.

[IDAPA 58.01.01.211, 5/1/94]

***Performance Testing***

- 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.

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.

[IDAPA 58.01.01.157, 4/5/00]

***Monitoring and Recordkeeping***

- 7. The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.211, 5/1/94]

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2009.0004**

<b>Permittee:</b>	Low's Ready Mix, Inc.	<b>Facility ID No. 027-00094</b>
<b>Location:</b>	Caldwell, Idaho	

***Excess Emissions***

8. The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets and breakdowns.

[IDAPA 58.01.01.130-136, 4/5/00]

***Certification***

9. 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.

[IDAPA 58.01.01.123, 5/1/94]

***False Statements***

10. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.125, 3/23/98]

***Tampering***

11. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

***Transferability***

12. This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06.

[IDAPA 58.01.01.209.06, 4/11/06]

***Severability***

13. 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.

[IDAPA 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]