



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706-1255 • (208) 373-0502

Dirk Kempthorne, Governor
C. Stephen Allred, Director

February 12, 2003

Certified Mail No. 7099 3220 0009 1976 0527

Tim Sullivan, Facility Manager
Silicon International Ore LLC
P.O. Box 711628
Salt Lake City, UT 84171

RE: AIRS Facility No. 029-00033, Silicon International Ore LLC, Soda Springs
Final Permit to Construct, Roll Crusher Installation

Dear Mr. Sullivan:

On December 6, 2002, Department of Environmental Quality (Department) representatives met with you to discuss the proposal to install and operate a roll crusher at the Silicon International Ore LLC (SIO) facility in Soda Springs. The Department is issuing Permit to Construct (PTC) No. 029-00033 to SIO in accordance with IDAPA 58.01.01.200 - 223, *Rules for the Control of Air Pollution in Idaho*. This PTC is effective immediately and is based on information and materials received December 6, 2002.

This permit does not release SIO from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

Larry Sims of the Pocatello Regional Office will contact you regarding a meeting to discuss the permit terms and requirements. The Department recommends the following representatives attend this 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, the Department encourages you to call Mike Simon at 373-0212 to discuss any questions or concerns you may have with the enclosed permit.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Kelly", written over a circular stamp area.

Katherine B. Kelly
Administrator
Air Quality Division

KK/SO/sd

Project No. P-020325

Enclosures



**Air Quality
PERMIT TO CONSTRUCT**

State of Idaho
Department of Environmental Quality

PERMIT NO.: 029-00033

AQCR: 61

CLASS: SM

SIC: 1446

ZONE: 12

UTM COORDINATE (km): 449.3 , 4727.9

1. PERMITTEE

Silicon International Ore LLC

2. PROJECT

Installation and operation of a roll crusher and name change for Permit to Construct No. 029-00033

3. MAILING ADDRESS

P.O. Box 711628

CITY

Salt Lake City

STATE

UT

ZIP

84171

4. FACILITY CONTACT

Tim Sullivan

TITLE

Facility Manager

TELEPHONE

(208) 859-2524

5. RESPONSIBLE OFFICIAL

Tim Sullivan

TITLE

Facility Manager

TELEPHONE

(208) 859-2524

6. EXACT PLANT LOCATION

1973 Government Dam Road, Soda Springs, Idaho

COUNTY

Caribou

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

Cleaning, drying, crushing, screening, and bagging of quartzite

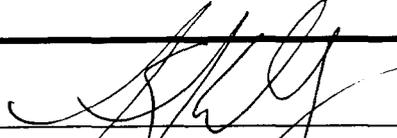
8. GENERAL CONDITIONS

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 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 is not transferable to another person, place, or piece or set of equipment, and 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 Department approval pursuant to the IDAPA 58.01.01.200, et seq.


KATHERINE B. KELLY, ADMINISTRATOR, AIR QUALITY DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

DATE ISSUED: February 12, 2003

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ACRONYMS, UNITS, and CHEMICAL NOMENCLATURE

AQCR	Air Quality Control Region
CFR	Code of Federal Regulations
CO	carbon monoxide
Department	Idaho Department of Environmental Quality
dscm	dry standard cubic meter
EPA	U.S. Environmental Protection Agency
HAPs	hazardous air pollutants
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pound per hour
NO _x	nitrogen oxides
NSPS	New Source Performance Standards
O&M	operations and maintenance
PM	particulate matter
PM ₁₀	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 ₂	sulfur dioxide
T/yr	tons per year
TAPs	toxic air pollutants
UTM	Universal Transverse Mercator
VOC	volatile organic compound

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: 029-00033

Permittee: Silicon International Ore LLC

Date Issued: February 12, 2003

Location: Soda Springs, Idaho

1. PERMIT TO CONSTRUCT SCOPE

Purpose

The PTC is being issued for the installation and operation of a roll crusher at the facility. This project triggers the NSPS provisions of 40 CFR 60.670-676, Subpart OOO. The facility is also requesting a name change for PTC No. 029-00033, dated October 24, 2000.

This PTC incorporates all applicable provisions of PTC No. 029-00033, dated October 24, 2000.

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	Facility-Wide	Baghouse/None
3	Emissions Unit No. 1	Baghouse

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Location: Soda Springs, Idaho

Date Issued: February 12, 2003

2. FACILITY-WIDE CONDITIONS

2.1 Process Description

The provisions of this section are facility-wide conditions and generally apply to the entire facility.

Emissions Limits

2.2 Opacity

Visible emissions from any point of emission 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.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.625, 4/5/00]

Operating Requirements

2.3 Fugitive Emissions

All reasonable precautions shall be taken to prevent PM from becoming airborne as required in IDAPA 58.01.01.651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations and 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, 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 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.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.650, 5/1/94]

2.4 Open Burning Rules

The permittee shall comply with the provisions of IDAPA 58.01.01.600-616 to protect public health and welfare from air pollutants resulting from open burning.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.600-616, 3/19/99]

2.5 Air Pollution Emergency Rules

The permittee shall comply with the Air Pollution Emergency Rules in IDAPA 58.01.01.550-562.

[IDAPA 58.01.01.550-562, 5/1/94]

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2.6 Excess Emissions

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

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.130-136, 4/5/00]

Monitoring and Recordkeeping Requirements

2.7 Opacity

The permittee shall conduct a weekly facility-wide inspection of potential sources of visible emissions during daylight hours and under normal operating conditions. The visible emissions inspection shall consist of a see/no see evaluation for each potential source. 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 and report the exceedance in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each weekly visible emissions 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. A compilation of the most recent two years of data shall be kept on site and shall be made available to Department representatives upon request.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.211.01, 5/1/94]

2.8 Fugitive Emissions

The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date that each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken. The most recent two years' compilation of data shall be kept on site and shall be made available to Department representatives upon request.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.211.01, 5/1/94]

Reporting Requirements

2.9 Excess Emissions

Excess emissions reports and notifications required in IDAPA 58.01.01.130-136 shall be sent to the following:

Air Quality Permit Compliance
Department of Environmental Quality
Pocatello Regional Office
444 Hospital Way, No. 300
Pocatello, ID 83201

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.135, 3/20/97]

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Permittee: Silicon International Ore LLC
Location: Soda Springs, Idaho

Date Issued: February 12, 2003

3. EMISSIONS UNIT NO. 1

3.1 Process Description

The provisions of this section address processes associated with quartzite silica production, including, but not limited to, conveying, washing, drying, crushing, screening, and bagging operations. These activities are collectively referred to as Emissions Unit No. 1.

3.2 Emissions Control Description

Emissions from Emissions Unit No. 1 are controlled by an AAF Optiflo baghouse, Model 4RC16.

Emissions Limits

3.3 Emissions of PM₁₀

The PM₁₀ emissions from Emissions Unit No. 1 shall not exceed 0.002 lb/hr or 0.01 T/yr.

[IDAPA 58.01.01.203.02, 5/1/94]

3.4 Process Weight Rate

For each source in Emissions Unit No. 1, including, but not limited to, the rotary dryer, roll crusher, screening processes, and bagging processes, the permittee shall not emit PM to the atmosphere in excess of the amounts shown in the following equations, where E is the total rate of emission from all emission points from the source in pounds per hour and PW is the process weight in pounds per hour.

- If PW is less than 9,250 lb/hr,

$$E = 0.045(PW)^{0.60}$$

- If PW is equal to or greater than 9,250 lb/hr,

$$E = 1.10(PW)^{0.25}$$

[IDAPA 58.01.01.701, 4/5/00]

3.5 Emissions of PM and Opacity – NSPS Requirements

The permittee is subject to the NSPS provisions of 40 CFR 60.670-676, Subpart OOO.

- 3.5.1** On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, no owner or operator subject to the provisions of 40 CFR 60, Subpart OOO shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:

- i. Contain PM in excess of 0.05 grams per dscm; and
- ii. Exhibit greater than 7% opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of 40 CFR 60.676 (c), (d), and (e).

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- 3.5.2** On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial start-up as required under 40 CFR 60.11, no owner or operator subject to the provisions of 40 CFR Part 60, Subpart OOO shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10% opacity, except as provided in Permit Conditions 3.5.3, 3.5.4, and 3.5.5.
- 3.5.3** On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial start-up as required under 40 CFR 60.11, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15% opacity.
- 3.5.4** Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of Permit Condition 3.5.
- 3.5.5** If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, each enclosed affected facility must comply with the emissions limits in Permit Conditions 3.5.1, 3.5.2, and 3.5.3, or the building enclosing the affected facility or facilities must comply with the following emission limits:
- i. No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 40 CFR 60.671.
 - ii. No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in Permit Condition 3.5.1.
- 3.5.6** On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 CFR 60.11, no owner or operator shall cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual enclosed storage bin, stack emissions which exhibit greater than 7% opacity.
- 3.5.7** Owners or operators of multiple storage bins with combined stack emissions shall comply with the emission limits in Permit Condition 3.5.1.
- 3.5.8** On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial start-up, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from:
- i. Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin.
 - ii. Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

[40 CFR 60.672]

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Permittee: Silicon International Ore LLC
Location: Soda Springs, Idaho

Date Issued: February 12, 2003

Operating Requirements

3.6 Baghouse Operation

The permittee shall install, operate, and maintain a baghouse to control PM emissions from activities associated with quartzite silica production, including, but not limited to, the rotary dryer, roll crusher, screening processes, and bagging processes. The baghouse shall be operated at all times when any activity associated with quartzite silica production is in operation.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.211.01, 5/1/94]

3.7 Baghouse Pressure Drop

The pressure drop across the baghouse shall be maintained within manufacturer or O&M manual specifications.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.211.01, 5/1/94]

3.8 Baghouse Pressure Drop Monitor

The permittee shall install, operate, and maintain a continuous monitoring device to monitor the pressure drop across the baghouse.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.211.01, 5/1/94]

3.9 Fuel Type

The permittee shall only combust propane in the rotary dryer.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.211.01, 5/1/94]

Performance Testing Requirements

3.10 Particulate Matter Performance Test – NSPS Requirements

Performance testing shall be conducted in accordance with all applicable requirements set forth in 40 CFR 60.670-676, Subpart OOO. Test documentation shall be kept at the site of operations or at another accessible location and shall be made available to Department representatives upon request.

[40 CFR 60.675]

Monitoring and Recordkeeping Requirements

3.11 Baghouse Pressure Drop

The permittee shall record the pressure drop across the baghouse daily when any activity associated with quartzite silica production is in operation. A compilation of the most recent two years of records shall be kept on site and shall be made available to Department representatives upon request.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.211.01, 5/1/94]

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3.12 Operations and Maintenance Manual

Within 60 days after startup, the permittee shall have developed an O&M manual for the baghouse which includes the procedures that will be followed to comply with General Provision 2 and the manufacturer specifications for the air pollution control device. This manual shall remain on site at all times and shall be made available to Department representatives upon request.

[PTC No. 029-00033, 10/24/00; IDAPA 58.01.01.211.01, 5/1/94]

Reporting Requirements

3.13 Performance Test

A written report of the results of the performance test required by Permit Condition 3.10 shall be submitted to the EPA in accordance with 40 CFR 60.676. A written report of the results of the performance test required by Permit Condition 3.10 shall be submitted to the Department within 30 days of the completion of the test.

[40 CFR 60.676; IDAPA 58.01.01.157.04, 4/5/00]

3.14 Process Changes – NSPS Requirements

For affected equipment at the existing facility, the permittee shall comply with the reporting provisions of 40 CFR 60.676(a) for all replacement equipment. For any affected changes in process methodology, the permittee shall comply with the reporting provisions of 40 CFR 60.676(g). Any report submitted to the EPA in accordance with Permit Condition 3.14 shall also be submitted to the Department.

[40 CFR 60.676; IDAPA 58.01.01.211.01, 5/1/94]

3.15 Start up Notification

The permittee shall comply with the start up notification requirements of 40 CFR 60.676(h) and General Provision 5 of this PTC.

[40 CFR 60.676; IDAPA 58.01.01.211.03, 5/1/94]

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: 029-00033

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Location: Soda Springs, Idaho

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4. SUMMARY OF EMISSIONS LIMITS

Table 4.1 provides a summary of all emissions limits required by this permit

Table 4.1. SUMMARY OF EMISSIONS LIMITS

Silicon International Ore LLC, Soda Springs Emissions Limits^a - Hourly (lb/hr) and Annual^b (T/yr)												
Source Description	PM		PM₁₀^c		SO₂		NO_x		VOC		CO	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Emissions Unit No. 1			0.002	0.01								

^a As determined by a pollutant-specific EPA reference method, Department-approved alternative, or as determined by the Department's emissions estimation methods used in this permit analysis.

^b As determined by multiplying the actual or allowable (if actual is not available) pound-per-hour emissions rate by the allowable hours per year that the process(es) may operate(s), or by actual annual production rates.

^c Includes condensibles.

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5. EMISSIONS INVENTORY

The following table is a summary of the emissions increases and decreases associated with this permit revision. The emissions inventory table is provided for informational purposes only.

Table 5.1. EMISSIONS INVENTORY

Pollutant	Annual Emissions Increase (T/yr)	Annual Emissions Decrease (T/yr)	Change in Annual Emissions (T/yr)
NO _x	0	0	0
SO ₂	0	0	0
CO	0	0	0
PM/PM ₁₀	0.000006/0.000003	0	0.000006
VOC	0	0	0
TAPS/ HAPS	0.000006	0	0.000006
Total:			0.000012

^aTAPS/HAPS = toxic air pollutants / hazardous air pollutants

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6. 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*. 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*, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq., and the permittee is subject to penalties for each day of noncompliance.
2. The permittee shall at all times (except as provided in the *Rules*) 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 notify the Department, in writing, of the required information for the following events within five working days after occurrence:
 - Initiation of Construction - Date
 - Completion/Cessation of Construction - Date
 - Actual Production Startup - Date
 - Initial Date of Achieving Maximum Production Rate - Production Rate and Date
6. If compliance testing is specified, the permittee must schedule and perform such testing within 60 days after achieving the maximum production rate, and not later than 180 days after initial startup. This requirement shall be construed as an ongoing requirement. The permittee shall not operate the source without testing within 180 days. If testing is not conducted within 180 days after initial startup, then each day of operation thereafter without the required compliance test constitutes a violation. Such testing must strictly adhere to the procedures outlined in IDAPA 58.01.01.157 and shall not be conducted on weekends or state holidays without prior written approval from the Department. Testing procedures and specific time limitations may be modified by the Department by prior negotiation if conditions warrant adjustment. The Department shall be notified at least 15 days prior to the scheduled compliance test. Any records or data generated as a result of such compliance test shall be made available to the Department upon request.

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The maximum allowable operating rate shall be limited to 120% of the average operating rate attained during any compliance test period, for which a test protocol has been granted prior approval by the Department, unless (1) the test demonstrates noncompliance; (2) a more restrictive operating limit is specified elsewhere in this permit; or (3) at such an operating rate, emissions would exceed any emissions limit(s) set forth in this permit.

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 the Department, 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.