

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Crandall Recreational Mountain Lot - Holding Tank

LOCATION: Portions of Sections 7, 8, 17, & 18, T18N, R79W, **Carbon County**
White Rock Estates, Block #5, Lots 3 - 6

APPLICANT: Donna J. Crandall
P.O. Box 861
Pine Bluffs, WY 82082

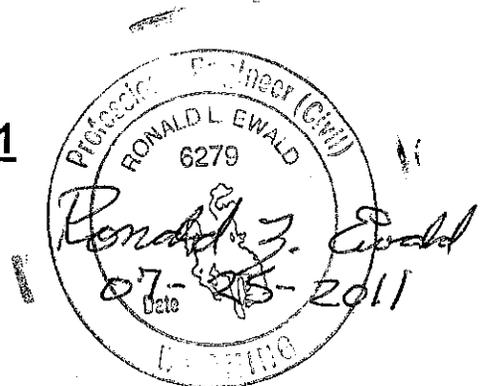
INSTALLER: Gregory O'Donnell
Bird O'Donnell Construction, Inc.
P.O. Box 1692
Laramie, WY 82073
Ph: (307) 745-3213

WATER QUALITY DIVISION REFERENCE #:

11-251

REVIEWING ENGINEER: Ronald L. Ewald
Phone: (307) 777-6183

DATE OF REVIEW: July 22, 2011



ACTION: **NOT AUTHORIZED FOR CONSTRUCTION.** In accordance with Section 14 (a), Chapter III, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with Section 9. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. Holding Tank Requirements NOT Addressed - most of the holding tank requirements specified in Section 43 of the Wyoming Water Quality Rules & Regulations (WQR&R) were not addressed. The following information was not addressed:

Section 43, subsection (a) – the design wastewater flow rate for the travel trailer determined from Table 1, to determine minimum size of holding tank.

subsection (d) – Venting, each holding tank shall be provided with a vent pipe to meet specific conditions.

subsection (e) – Alarm, the holding tank shall be equipped with a high water level alarm meeting specific requirements.

subsection (f) – Pumpout, a capped pump out pipe extending to the surface is to be provided.

These specific subsections were not adequately addressed in the first submittal package. Some require information and others require detailed drawings with dimensions and distances in addition. Please address all of these issues in your resubmittal.

RLE/rm/11-0692

Enclosures: Section 43 of the WQR&R
Table 1



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

John Corra, Director

November 10, 2011

Donna J. Crandall
P.O. Box 861
Pine Bluffs, WY 82082

RE: **Application Withdrawn Number: 11-251**
Action: Application Returned – Project Cancelled by Owner
Facility: Crandall Recreational Mountain Lot – Holding Tank
Location: Block #5, Lots 3-6, White Rock Estates,

Carbon County

Dear Ms. Crandall:

On September 27, 2011 the Water Quality Division(WQD) received a letter from your contractor, Bird-O'Donnell Construction, stating that this project had been cancelled by the owner. Therefore, your application package is being returned to you with the **Action: Not Authorized For Construction**, as the result of our WQD review comments dated July 22, 2011.

This project **has not been permitted**. Construction of this facility without a permit is a violation of the Environmental Quality Act and is punishable with fines not to exceed \$10,000 per day of violation. If you wish to reconsider construction of this facility, then the application process must be started over and the application procedures pursuant to Chapter 3 of the Wyoming Water Quality Rules and Regulations must be followed.

If you should have any questions, please contact Ronald Ewald at either ron.ewald@wyo.gov or (307) 777-6183. Please be reminded that the WQD could show up anytime in the future to verify that this facility has not been constructed without a permit.

Sincerely,

Ronald L. Ewald
Southeast District Assistant Engineer
Water Quality Division

RLE/rm/11-0996

Enclosures: Application Package 11-251
Copy of review comments dated July 22, 2011
Bird-O'Donnell Project Cancellation letter





Department of Environmental Quality

*To protect, conserve, and enhance the quality of Wyoming's
environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

August 5, 2011

Smokey Wildeman, Chairman
Johnson County Commissioners
76 North Main Street
Buffalo, WY 82834

RE: Johnson County Judicial Center, Buffalo, WY
WDEQ #11-252

Mr. Wildeman:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems in accordance with Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations and for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems in accordance with Chapter 3 and Chapter 11 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the facility(ies) in accordance with the general permits and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage,

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-473-3478.

Sincerely,

Karen L. Farley, P.E.
Northeast District Engineer, Water Quality Division

Enclosures: Certificate of Completion

cc: David Engels, P.E., EnTech, Inc., 1949 Sugarland Drive, Ste. 205, Sheridan, WY 82801
Les Hook, City of Buffalo
WDEQ File
IPS



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 11-253

WYDOT I-80 POE (ARCHER#1) - REPLACEMENT PWS Well Construction
PWS WY5600845

This permit hereby authorizes the applicant:

Wyoming Department of Transportation
5300 Bishop Blvd
Cheyenne, WY 82009

to construct, install or modify Drilling, Construction, Developing and Testing the WYDOT I-80 POE Well according to the procedures and conditions of the application number 11-253. The facility is located adjacent to I-80 in NW ¼ NW ¼, Section 26, T14N; R65W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed August 1, 2013.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

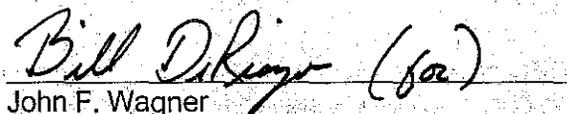
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

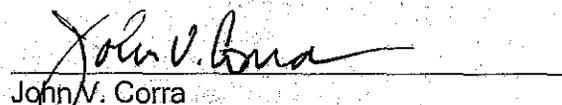
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7075, FAX 307-777-7610, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

Date of Issuance 8-3-11

RRC/bb/11-0705

cc: Mike Schulte; WYDOT Geology Program, 5300 Bishop Blvd, Cheyenne, WY 82009

STATEMENT OF BASIS

1. Permit Number: **11-253**

~~2. This application was reviewed for compliance with the applicable regulations ;~~

Chapters 3, 12

3. Does the permit comply with all applicable regulations identified above?

Yes

4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was

not required.

Public water supplies are exempted from review by Chapter 3, Section 17.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Richard Cripe P.E., Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on August 2, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

RRC/bb/11-0705

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 11-254

WYDOT US85 POE #1- REPLACEMENT PWS Well Construction
PWS WY5601092

This permit hereby authorizes the applicant:

Wyoming Department of Transportation
5300 Bishop Blvd
Cheyenne, WY 82009

to construct, install or modify Drilling, Construction, Developing and Testing the WYDOT US 85 POE #1 Well according to the procedures and conditions of the application number 11-254. The facility is located adjacent to US 85 in NE ¼ NE ¼, Section 32, T13N; R66W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed August 1, 2013.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

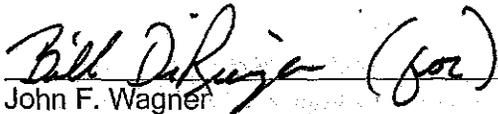
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

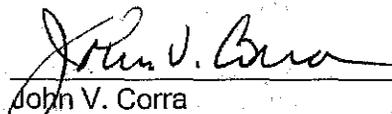
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7075, FAX 307-777-7610, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

Date of Issuance 8-3-11

RRC/bb/11-0706

cc: Mike Schulte, WYDOT Geology Program, 5300 Bishop Blvd, Cheyenne, WY 82009

STATEMENT OF BASIS

1. Permit Number: **11-254**

2. This application was reviewed for compliance with the applicable regulations ;

Chapters 3, 12

3. Does the permit comply with all applicable regulations identified above?

Yes

4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was
not required.

Public water supplies are exempted from review by Chapter 3, Section 17.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Richard Cripe P.E., Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on August 2, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

RRC/bb/11-0706



Department of Environmental Quality

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environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

October 5, 2011

Mr. Ken Milne
7039 Elton Ct.
Casper, WY 82644

RE: MDC Industrial Building on Lot 18 of Westgate Park III, Application No. 11-255

Dear Mr. Milne:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems in accordance with Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations and for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems in accordance with Chapter 3 and Chapter 11 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the facility in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V. Section O. of the general permits. The general permits are available for download at http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp.

If you have any questions, please contact me at 307-473-3471.

Sincerely,

Kevin J. Frank

Kevin J. Frank
Project Engineer
Water Quality Division

cc: ✓ - IPS, Cheyenne
- Lewis James, PE; JKC Engineering; 5830 East 2nd Street; Casper, WY 82609





Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 18, 2011

Brian Jordan
4010 Elm Ave. Apt. 206
Rapid City, SD 57701

RE: Jordan Residential Small Wastewater System, Crook County
Location: SW ¼, SW ¼, Section 34, Township 55 North, Range 65 West. , Permit # 11-256

Dear Mr. Jordan:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage, http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater, both horizontal and vertical. This requirement includes both the pipeline from the house to the septic tank and from the septic tank to the leach field.
2. Either a 6-inch diameter clean-out riser or a manway from each compartment of the septic tank must be extended to the ground surface from all septic tanks.

Please be advised that Crook County inspects all small wastewater systems permitted through WDEQ. Please contact Crook County Growth and Development at 307.283.4548 to arrange an inspection of the system. **Septic systems shall not be installed during adverse weather. This includes rain, snow, severely cold temperatures, or excessively moist soils.** Please contact me with questions at 307-777-6941.

Sincerely,

Suzanne Engels
WDEQ/WQD

SE/rm/11-0666

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development, PO Box 848, Sundance, WY 82729



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 11-257

Spring Creek ISD Water System Improvements 2011
PWS #WY5600811

This permit hereby authorizes the applicant:

Stephen Price, Director
Spring Creek Improvements and Service District
P.O. Box 4780
Jackson, WY 83001

to replace pumps at Booster Stations No. 2 and No. 3, replace a chlorination system, and install check valves and a flow meter at Wells No. 1 and No. 2, according to the procedures and conditions of the application number 11-257. Upgrades to Booster Stations No. 2 and 3 provide the replacement of the existing 400 and 800 gpm pumps operating on variable frequency drives (VFDs). This project is located at Southwest $\frac{1}{4}$, Section 16, Township 41 North and Range 116 West in the county of Teton, in the state of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by July 31, 2014.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not

relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

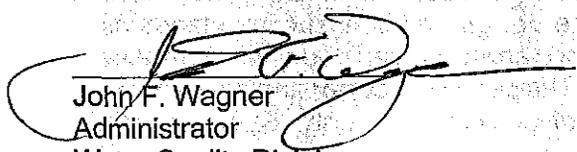
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

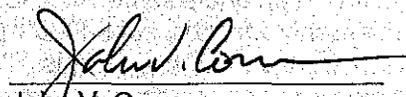
- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Northwest District Engineer, 510 Meadowview Dr., Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.

- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

7/14/11
Date of Issuance

JSB/rm/11-0655

STATEMENT OF BASIS

1. Permit Number: 11-257
2. ~~Application reviewed for compliance with the following regulations:~~
Chapters 3 and 12 of the Wyoming Water Quality Rules and Regulations.
3. Does the permit comply with all applicable regulations identified above? Yes
4. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.

No
5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

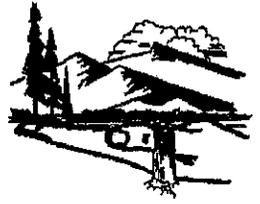
CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by James Brough, jbroug@state.wy.us, Northwest District Engineer and completed on July 13, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

cc: Robert Norton, P.E., Nelson Engineering, P.O. Box 1599, Jackson, WY 83001
Wade Verplancke, P.E., Wyoming Water Development Office, 6920 Yellowtail Rd, Cheyenne, WY 82002



Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 11, 2011

Todd P. Kemp
Questar Corporation
P.O. Box 45360
Salt Lake City, UT 84145-0360

RE: Rock Springs - Questar Corporation Fire Hydrant Project - Permit Number 11-258, SW ¼ Section 36, T19N, R105W, Sweetwater County

Dear Mr. Kemp:

The above application for coverage under General Permit to Construct the extension of a public water supply distribution system consisting of a 6-inch PVC fire hydrant lead in accordance with Chapter 3, Section 7, Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne
Randy Hansen, P.E., JFC Engineers and Surveyors, 1515 Ninth Street, Rock Springs, WY 82901



PERMIT TO CONSTRUCT
(AS-BUILT)

X New
_ Renewal
_ Modified

PERMIT NO. 11-259
SPECIAL CONDITIONS

Atlantic Richfield Company-BP Whiskey Buttes 14 Site
Condensate Remediation Project

This permit hereby authorizes the applicant:

Atlantic Richfield Company
317 Anaconda Road
Butte, MT 59701

to construct, install or modify absorbent socks & passive aeration apparatus for an LNAPL recovery system and conduct groundwater monitoring activities according to the procedures and conditions of the application number 11-259. The facility is located in NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 2, T.21N., R.112W. (6th P.M.) in the county of Lincoln, in the State of Wyoming. All construction, installation or modification allowed by this permit shall be completed by July 31, 2016.

The issuance of this permit confirms that the Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and/or operator.

Granting this permit does not imply that the Wyoming DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by the DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by the DEQ statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and/or operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the state does not waive its sovereign immunity.

The permittee shall allow authorized representatives from the DEQ, Water Quality Division, to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

The permittee shall notify representatives from the DEQ, Water Quality Division when the construction commences and give an estimate of completion for the project. The authorized representative in your area can be contacted at the following address: WDEQ, Water Quality Division, 510 Meadowview Drive, Lander, Wyoming 82520; telephone (307) 332-3144; FAX (307) 332-3183.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

1. After the absorbent socks and passive aeration system has fulfilled its useful purpose, they shall be disposed according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.
2. WDEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of the bailers and sample collection so that they may be on site if deemed necessary.
3. The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).
4. The results of any other analyses conducted on soil or water removed from all wells/piezometers or boreholes shall be provided to the department as soon as they are available.
5. ***Environmental Monitoring Program for Groundwater of the State:***
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity and performed in accordance with WDEQ or EPA approved Standard Procedures or Quality Assurance/Quality Control (QA/QC) Plan.
 - b. The permittee shall maintain records of all monitoring information for a period of at least 3 years.
 - c. Records of monitoring information shall include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The name(s) of individual(s) who performed the sampling or measurements;
 - iii. The Mean Sea Level elevation of the water table to the closest .01 ft., and the depth to water (to the closest .01 ft.) from a marked measuring point at the top of casing.
 - iv. Sampling procedures and sample preservation accomplished;
 - v. The date(s) analyses were performed;
 - vi. Names of individuals who performed the analyses;
 - vii. The analytical techniques or methods used; and
 - viii. The results of such analyses.

ix. Groundwater samples from the monitoring wells shall be analyzed as indicated on the following table. This table supercedes previous permit requirements.

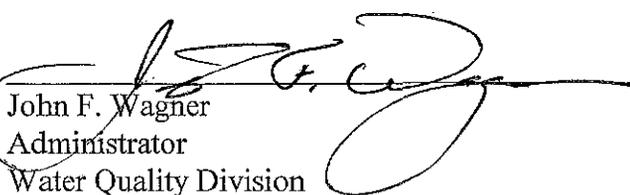
WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT
All Existing Monitoring wells	Semi-annual	EPA 8015M EPA 8120 (or equivalent)	TPH-GRO BTEX	

* Permit Limits (i.e. Groundwater Protection Standards) are only required for compliance monitoring wells. All chemical concentrations in this permit are expressed in mg/l unless otherwise noted.

6. Within ninety (90) days of completion of the recovery system installation, Atlantic Richfield Company shall submit a completion report. The completion report shall include the operation and maintenance plan and "as built" diagrams of the recovery system. Thereafter, an annual report, as is currently being submitted, will be required that provides a summary of the sampling data, LNAPL recovery amounts, a description of any equipment problems or downtime, and any other pertinent data.

7. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of well(s)/piezometer(s) shall be installed to define the nature and extent of the contamination.

AUTHORIZED BY:


 John F. Wagner
 Administrator
 Water Quality Division


 John V. Corra
 Director
 Department of Environmental Quality

7/20/11
 Date of Issuance

JOC/rm/11-0677

cc: IPS,
 Lander

GROUNDWATER POLLUTION CONTROL PROGRAM

REVIEW COMMENTS:

PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

SITE NAME: Whiskey Buttes 14

SITE STATUS: Site Remediation

APPLICANT:

Mr. Steve Ferry
Atlantic Richfield Company
317 Anaconda Road
Butte MT, 59701

ENGINEER/CONSULTANT:

Mr. Patrick J. Mulcahy, P.G.
AECOM
717 17th Street, Suite 2600
Denver, CO 80202
(303) 228-3000

WATER QUALITY DIVISION REFERENCE PERMIT NUMBER: none
 EXISTING NEW AS-BUILT

TITLE: Current Conditions Report, Whiskey Buttes 14, Lincoln County, Granger, WY
 PLANS SPEC'S PROPOSAL REPORT

[Check all that apply]

DATE ON PROPOSAL/PLANS/REPORT:

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES (GPC Permit 11-259)

AN 'LOV' 'NOV' OR OTHER ENFORCEMENT? NO YES [DATE]

REVIEWING OFFICIAL(S): _____

James O'Connor

DATE OF THIS REVIEW: July 13, 2011

ACTION: Approved as submitted- comments attached

COMMENTS: GROUNDWATER SECTION

1.0 SUMMARY OF EXISTING CONTAMINATION

1.1. Site Description

The legal description of the site is as follows: NE $\frac{1}{4}$ SW $\frac{1}{4}$ §2, T. 21 N., R. 112 W. (6th P.M.)

The site is located approximately 10 miles east of Opal, Wyoming in the Granger area of Lincoln County. WB-14 is a natural gas well site within the Moxa Arch natural gas production field. A natural gas transfer line leaked liquid natural gas condensate into the subsurface in 2000. Atlantic Richfield Company/BP North America Gas (BP-NAG), a BP affiliated company, investigated and remediated the release between 2001 and 2009. WB-14 is located on land leased from the Bureau of Land Management. BP-NAG operates the WB-14 well and associated facilities on behalf of the working partners. The WB-14 working interest partners are BP-NAG, Anadarko, Chevron/Texaco, Robert Ferguson and Double Eagle.

The remote site is located on a gently rolling plain in SW Wyoming at an elevation of 6,700 feet above mean sea level. Vegetation is characterized by low-growing sage and native grasses.

1.2. Site Geology (as described by AECOM)

The geology at the WB-14 site is predominantly interbedded siltstones and claystones and of the Lower Bridge Formation. At this location the Lower Bridge is a greenish brown to greenish gray, finely laminated siltstone, sandstone and claystone. Individual beds vary in thickness from a few inches to approximately one foot. In general the formation is heterogeneous with alternating beds of claystone and siltstone. Fractures are predominantly horizontal with minor vertical fractures present. The horizontal fractures appear to be discontinuous in nature, as supported by the lack of continuity in LNAPL thicknesses observed in wells that are located in close proximity to one another- i.e. MW-01, RW-01 and RW-02- and immediately adjacent to the former condensate leak. Three marker horizons within the claystone-siltstone unit were identified during drilling. These include:

- A reddish brown silica cemented siltstone and sandstone
- A bluish gray, silica cemented siltstone, and,
- A clayey sandstone

1.3. Site Hydrogeology (as described by AECOM)

Groundwater was not encountered in borings drilled at WB-14 to depths of approximately 85 feet. Based on borings drilled at a nearby well site, Whiskey Buttes 13, and well search data within a five mile radius of WB-14, groundwater is expected to be encountered at 60 to 100 feet bgs. Subsurface condensate impacts (free phase and residual components) were encountered in perched intervals within the claystones and siltstones at depths ranging from approximately 35-50 feet bgs. Water was encountered in some wells approximately one year after installation. Originally, it was surmised that the impacted water originated from a leak in a water line at the site and is not naturally occurring groundwater. Based on this investigation, a working site conceptual model was developed in which free-phase condensate is perched in fractured bedrock.

1.4. Potential Sources

Groundwater use in the area is primarily for support of natural gas production facilities. There is no domestic or agriculture use within a one-mile radius of the site.

2.0 CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE

2.1. 2000 Investigation & Remediation Events

In June, 2000 a soil gas survey was conducted at WB-14 to assess the horizontal extent of the condensate release. Five deep borings were completed in September of that year. Three of the five wells were completed as 2" monitoring wells: MW-1, MW-2 & MW-3. Borings were installed to evaluate the impact to soil at depth. The monitoring wells were installed to confirm the absence of groundwater at the site. ThermoRetec Consulting Corporation was the consulting firm for the MW installation.

Soil Gas Survey & Groundwater Assessment After discovering the condensate release, BP conducted a soil gas survey in June, 2000 to assess the lateral extent of the condensate migration, identify potential preferential pathways and evaluate the impacts on GW. The investigation involved the collection of soil gas measurements at 23 direct push borings. Additionally, soil samples were obtained from three borings at depths of 8' and 10'. PID readings and soil lithology were obtained from each boring. The soil samples were analyzed for BTEX, TPH-GRO and TPH-DRO. Based on the results of that investigation, it was determined that deeper drilling would be needed to evaluate the presence of groundwater and to further define the vertical extent of the soil impacts at the site.

Between September 27 and October 3, 2000, five deep soil borings were drilled to assess the vertical extent of the soil impacts and identify the presence of groundwater. Three of the five borings were completed as monitoring wells MW-01, MW-02 & MW-03. The borings were logged for lithology and groundwater. PID readings were obtained. Soil samples were analyzed for TPH. During this investigation free phase and residual condensate were encountered in perched intervals within the claystones and siltstones at depths ranging from approximately 35' to 50' bgs. LNAPL was observed in well MW-01 and in MW-02 which is approximately 285' south of MW-01. No groundwater was encountered. Drilling results indicated that free-phase condensate was confined to a perched interval and that groundwater was at depths greater than 85'.

LNAPL Recovery Based on the soil and groundwater investigation, the feasibility of LNAPL recovery was evaluated. LNAPL mobility was assessed using enhanced fluid recovery to drawdown the LNAPL in well MW-01 and rapid recovery of LNAPL was achieved. As a result, an evaluation was made to determine the cost effectiveness of well installation in conjunction with various recovery techniques such as EFR events and pumping systems employing battery power, solar or compressed gas operation. A solar-powered pneumatic pump system was selected as the LNAPL recovery method for the site.

2.2. 2001 Investigation & Remediation Events

Enhanced fluid recovery (EFR) was performed on monitoring well MW-1 in May, 2001, using a vacuum truck. An LNAPL baildown test was performed in conjunction with a test to determine

the rate of LNAPL recovery in MW-1. In May, 2001, an LNAPL sample was collected from MW-1 and analyzed for physical properties (i.e. density, viscosity, surface tension, etc.) and gas chromatography (GC). These were employed to estimate the BTEX concentrations. In August, 2001, the additional monitoring wells were installed: MW-4 (2" dia) and RW-1 and RW-2 (both 4" dia). Once again, ThermoRetec Consulting Corporation was the consulting firm for the MW installation.

The groundwater was measured in October, 2001, for the first time in wells MW-2, MW-3, MW-4, RW-1, RW-2. Groundwater samples were collected from monitoring wells MW-2, MW-3, RW-1 and RW-2 for BTEX and TPH. In December, BP conducted a pressure test on the produced water line connecting the production unit to the produced water storage tank. The pressure test indicated that the line had ruptured in the vicinity of the original condensate leak.

2.3. 2002 Investigation & Remediation Events

The results of the groundwater sampling collected from monitoring wells MW-2, MW-3, MW-4, RW-1 and RW-2 in January, 2002 were compared to samples of produced water from WB-14 as well as other well sites to determine if the water observed in the WB-14 monitoring wells was similar to the produced water. At that same time an absorbent sock was installed to recover condensate originally detected in MW-2. In August a SolarRem product recovery system was installed in MW-4.

2.4. 2003 thru 2006 Investigation & Remediation Events

The SolarRem product recovery system continued to operate in MW-1 and MW-4 during the following months: May, 2003, April, 2004, April, 2005 and June, 2006. In 2005, an Enardo pressure relief valve was installed on the recovery tank to minimize the loss of LNAPL due to evaporation, while still preventing positive pressure or vacuum conditions within the tank. However, the tank was still vented to the atmosphere.

2.5. 2007 Investigation & Remediation Events

The SolarRem product recovery system was not operated in 2007. There is no record of the reason for this action. No sample data was reported for this period of time.

2.6. 2008 Investigation & Remediation Events

In May, the SolarRem product recovery system was re-started and operated in monitoring wells MW-1 and MW-4. Additionally, absorbent socks were used to recover product in MW-2 MW-4.

2.7. 2009 Investigation & Remediation Events

In November, GW samples were collected from monitoring wells RW-1, RW-2, MW-2 and MW-3 and analyzed for BTEX and TPH-GRO. An LNAPL sample was collected from MW-1 and analyzed for BTEX in addition to gas chromatography. The LNAPL baildown test

conducted at that same monitoring well was used to determine if any changes in LNAPL transmissivity/mobility had occurred.

2.8. 2010 Investigation, Remediation Events & Report

The formal report was submitted in October, 2010. The GPC Section had concerns as to the conclusions concerning the source of the impacted groundwater. According to the report, the contaminated GW encountered at the site resulted from the condensate line rupture and was not ambient GW. A subsequent review of the data determined that the GW was situated in a perched zone and not just the result of the condensate line rupture. BP NAP thru Atlantic Richfield was directed to apply for a permit-to-construct for the proposed remediation action and to provide an as-built for the previous remediation work completed at the site.

2.8.1. Conclusions proffered by Atlantic Richfield Company (for BP Products NAP)

- Subsurface condensate impacts were encountered in shallow perched intervals within claystones and siltstones at depths ranging from approximately 35 to 50 feet below grade surface at the site
- Groundwater is considered to be at depths greater than 85' bgs
- Estimates of the volume of LNAPL recovered at the site have not been possible for two reasons:
 - 1) the loss of recovered LNAPL to evaporation
 - 2) recovery rates have been too low to be measured by a flowmeter
- Even though LNAPL remains in the subsurface, the majority of the wells have demonstrated significant reductions – i.e. 68% to 100%- reductions in dissolved phase BTEX and TPH-GRO concentrations since 2001. This indicates that natural attenuation of these compounds is occurring at the site. High concentrations of sulfates also contribute to the high rate of degradation.
- The site is remote presenting no threat to human health. Ecological receptors are not present given the current land/water use and exposure pathways
- LNAPL likely exists in isolated fractures present in the relatively impermeable bedrock. Under these conditions the thickness of LNAPL in the wellbores is not indicative of an actual saturated or mobile zone.
- Soil concentrations are less than the WOGCC TPH values of 10,000 mg/kg
- Continuing existing recovery efforts is not expected to have any appreciable benefit on site conditions
- The effectiveness of the LNAPL recovery operations over the last five years has been difficult to assess due to limited recovery rates too low for the flow metering device to accurately measure coupled with the evaporation rate exceeding the recovery rate
- The lack of available power sources due to the remote nature of the site limits remediation options
- Enhanced product recovery and biodegradation may potentially be achieved through a passive wind driven system if installed on specific wells

2.8.2. Recommendations proffered by Atlantic Richfield Company (for BP Products NAP)

1. Monitor water and other fluid levels on an annual basis until remediation standards have been attained
2. Install absorbent socks and/or passive wind catcher units at all wells with LNAPL levels exceeding 0.01 feet
3. Continue water quality data collection at wells with less than 0.01 feet of LNAPL until such time that the well complies with water quality standards for two consecutive years
4. Five year water quality monitoring at all wells in the event that water quality monitoring as previously described is on-going

2.8.3. WYDEQ Response to the 2010 Annual Report

The current report provided a satisfactory summary of the activity at the Whiskey Buttes 14 site from 2001 to the present. WYDEQ agreed with the following:

- The data appears to suggest that the free product thicknesses are being effectively reduced by the current recovery methods
- The physical parameters and the general chemistry constituents to be collected.
- As to the recommendation outlined in §2.10 #3., above, concerning the use of absorbent socks and/or passive wind catchers at wells exhibiting less than 0.1' free product, WYDEQ concurred with the recommendation but requested specific information related to type, use and maintenance of all products.
- The information pertaining as to the inspection frequency and method of disposal of the absorbent socks was requested.
- Additionally, Atlantic Richfield was directed to submit an application for a permit-to-construct to set forth a formal plan of action for the remediation of this site.

WYDEQ did not agree with the following recommendations:

- The sampling and monitoring frequency was adjusted to a semi-annual basis instead of annually.
- As to the recommendation outlined in §2.10 #4., above, concerning the monitoring period WYDEQ reiterated that all monitoring activities would have to continue until such time that all MW's comply with drinking water standards and after discontinuing active remediation instead of a blanket 5-year period of time.

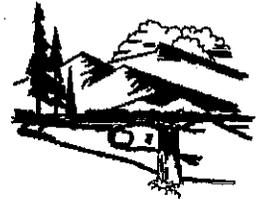
3.0 REQUESTS/REQUIREMENTS/RECOMMENDATIONS

- 3.1. The application was submitted in order to provide a formal plan of action for the activities currently in place at the site.
- 3.2. Monitoring activities will include typical field parameters in conjunction with BTEX and TPH-GRO constituents.
- 3.3. The monitoring frequency will be on a semi-annual basis of spring and fall sampling events. The sampling frequency will be reviewed after two years.

- 3.4. Absorbent socks and/or passive well bore aeration apparatus- aka wind catchers- installed at wells with LNAPL exceeding 0.01' product thickness.
 - 3.5. Initially, the maintenance of the absorbent socks and passive well bore aeration apparatus will be conducted on a quarterly basis with two events coinciding with the semi-annual sampling cycle. The absorbent socks will be replaced upon saturation. This schedule will continue until such time as a more complete understanding of the site is ascertained.
-



Department of Environmental Quality



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Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 21, 2011

Curtis Barker
Sweetwater County School District No. 1
831 Gobel Street
Rock Springs, WY

RE: Rock Springs - Sweetwater County School District No. 1- East 5-6 Elementary School-
Permit Number 11-260, Lat: 41.52, Long: 109.2, Sweetwater County

Dear Mr. Barker:

The above application for coverage under General Permits to Construct the extension of a public water supply distribution system consisting of about 260 linear feet of 6-inch PVC water main for a water service and 3 fire hydrant leads and the extension of a sewage collection system consisting of about 250 linear feet of 6-inch sewer main and a 2000 gallon grease trap in accordance with Chapter 3, Section 7, Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne
David A. Dufault, P.E., Nelson Engineering, P.O. Box 1599, Jackson, WY 83001





Department of Environmental Quality

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environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Gorra, Director

NOTIFICATION OF COVERAGE

July 12, 2011

Ronald and Janet Hartman
4 Stateview Road
Newcastle, WY 82701

RE: Hartman Residential Small Wastewater System, Weston County
Location: Tract 36, Lookout Mountain Subdivision, Permit # 11-261

Dear Mr. and Mrs. Hartman:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage, http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater, both horizontal and vertical. This requirement includes both the pipeline from the house to the septic tank and from the septic tank to the leachfield.
2. Either a 6-inch diameter clean-out riser or a manway from each compartment of the septic tank must be extended to the ground surface from all septic tanks.

Septic systems shall not be installed during adverse weather. This includes rain, snow, severely cold temperatures, or excessively moist soils. Please contact me with questions at 307-473-3478.

Sincerely,

Karen L. Farley, P.E.
WDEQ/WQD

cc: IPS, Cheyenne
WYDEQ Casper File
John Lliteras, 32 Greenhouse Road, Newcastle, WY 82701





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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

CERTIFIED MAIL # 7016 0290 0063 1994 6270

December 30, 2011

James Bradish
Stateline Energy, LLC
616 West Monument
Colorado Springs, CO 80905

RE: Stateline Sublette County Evaporation Facility, Sublette County, Wyoming
Permit to Construct No. 10-262

Dear Mr. Bradish:

In accordance with a letter dated June 23, 2011, the Wyoming Department of Environmental Quality, Water Quality Division (WDEQ/WQD) is returning the application for a permit to construct for the above referenced facility. The application is considered incomplete as acceptable financial assurance documents were not submitted to this agency within six months. Should you wish to pursue this project, the application will need to be resubmitted for agency review and approval.

If you have any questions please contact Dennis Lamb or Kim Medina at (307)-473-3465.

Sincerely,

Kim J. Medina
Senior Environmental Analyst
Oil and Gas Program
Water Quality Division

cc: John Erramouspe, P.O. Box 115, Farson, WY 82932
Bart Myers, Sublette County Planning and Zoning, P.O. Box 506, Pinedale, WY 82941
David Rau, Paragon Consulting Group, Inc., 1103 Oak Park Drive, Suite 110, Fort Collins, CO 80525
IPS, Cheyenne





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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

July 12, 2011

Jeff Schloredt
P.O. Box 1064
Sundance, WY 82729

RE: Schloredt Residential Small Wastewater System, Crook County
Location: NE $\frac{1}{4}$, NW $\frac{1}{4}$, Section 24, Township 51 North, Range 62 West., Permit # 11-262

Dear Mr. Schloredt:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage, http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater, both horizontal and vertical. This requirement includes both the pipeline from the house to the septic tank and from the septic tank to the leachfield.
2. Either a 6-inch diameter clean-out riser or a manway from each compartment of the septic tank must be extended to the ground surface from all septic tanks.

Please be advised that Crook County inspects all small wastewater systems permitted through WDEQ. Please contact Crook County Growth and Development at 307.283.4548 to arrange an inspection of the system. **Septic systems shall not be installed during adverse weather. This includes rain, snow, severely cold temperatures, or excessively moist soils.** Please contact me with questions at 307-473-3478.

Sincerely,

Karen L. Farley, P.E.
WDEQ/WQD

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development

Cheyenne
122 West 25th Street 82002
(307) 777-7937

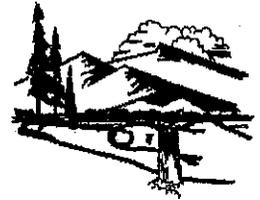
Lander
510 Meadowview Drive 82520
(307) 332-3144

Sheridan
2100 W. 5th Street 82801
(307) 673-9337





Department of Environmental Quality



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Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 22, 2011

Raymond L. Moore, Jr.
Rat Pac Enterprises
P.O. Box 669
Pinedale, WY 82941

RE: Rat Pac Enterprises - Airport Industrial Park Subdivision - Small Waste Water System - Permit Number 11-264, SW ¼ NW ¼ Section 25, T33N, R109W, Sublette County

Dear Mr. Moore:

The above application for coverage under General Permit to Construct for an enhanced small wastewater treatment systems consisting of a 1000 gallon septic tank, a Micro Fast 0.50 System and a 32 chamber leach field to serve a 10 person commercial facility in accordance with Chapter 3, Section 7 and Chapter 11, Part D and Section 5, Chapter 23, Section 7(d)(viii) of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

In carrying out the activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 1 of 5 This permit is for an enhanced (MicroFast 0.5 with and leach field) small wastewater treatment system. The permittee is required to obtain a maintenance contract and submit annual documentation that maintenance is being provided in accordance with the manufacturer requirements and recommendations and the permit conditions. Authority for this requirement is found in Sections 11 (a) and (c), Chapter 3 of the Wyoming Water Quality Rules and Regulations. Annual maintenance documentation must be submitted before December 31 of each year, starting December 31, 2011 to: Southwest District Engineer, Wyoming Department of Environmental Quality, 510 Meadowview Drive, Lander, WY 82520. Failure to submit annual maintenance documentation is a violation of the compliance requirements for this permit issued under Wyoming Statue 35-11-301.



2 of 5 The permittee shall ensure that the system is maintained and regularly serviced, as recommended by the manufacturer, for the life of the system. An inspection of the system, as recommended by the manufacturer in the owner's manual, shall be performed every six months by a qualified or certified individual to ensure the system is operating correctly, and to determine when maintenance is required.

3 of 5 In the event that authority for permitting enhanced small wastewater treatment systems is delegated to Sublette County by the Department of Environmental Quality, the permittee shall be subject to all county requirements and resolutions that may be in effect, or subsequently enacted, affecting the inspection, operation, maintenance, monitoring, or replacement of this system.

4 of 5 This small enhanced wastewater treatment system must continually achieving the following minimum treatment standards as required by Chapter 23, Section 7(d)(viii)(C) of the Wyoming Water Quality Rules and Regulations at a depth of 4.0 feet above the seasonally high groundwater:

- Fecal Coliform: < 800 colonies/100mL (maximum 30 day geometric mean)
- Total Kjeldahl Nitrogen: < 25mg/L (maximum 30 day average)

5 of 5 The bottom of the leach field for the Fast Micro 0.50 System must be at least 6.0 feet above the seasonally high ground water.

If you have any questions, please contact me at 307-332-3144.

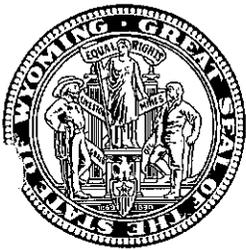
Sincerely,



Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

xc: IPS, Cheyenne
Keith Raney, Sublette County Environmental Health, P.O. Box 722, Pinedale, WY 82941
Mark Eatinger, P.E., Rio Verde Engineering, P.O. 642, Pinedale, WY 82941

encl: General Permit for a Small Waste Water System



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 14, 2011

Mr. Herman Noe
Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82003

RE: Granite Hills Subdivision,
Application No. **11-265**, Laramie County

Dear Mr. Noe:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and or Existing Sewage Collection Systems described as installation of approximately 2300 ft of 8 inch PVC sanitary sewer, install sixteen new manholes, install twelve new fire hydrants, and installation of approximately 2800 ft of 8 inch water line, SW ¼ Section 22, T14N R 66W; Laramie County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by July 14, 2013.

This **Notice of Coverage** is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General Permits can be viewed at the following path: http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp. Please reference Application No. **11-265** in any future correspondence.

If you have any questions, please contact me at 307-777-7075.

Sincerely,

Richard R. Cripe PE
Southeast District Engineer
Water Quality Division

RRC/rm/11-0658

Enclosure: Certificate of Completion

cc: IPS, Cheyenne
Lawrence Gallagher, Summit Engineering, 5907 Townsend Place, Cheyenne, WY 82009



ROAD APPLICATION PERMIT

New
 Renewal
 Modified

PERMIT NO. 11-266
SPECIAL CONDITIONS

Bentonite Performance Minerals
Road Application

This permit hereby authorizes the applicant:

Bentonite Performance Minerals, LLC
554 U.S. Highway 212
Belle Fourche, SD 57717

to road apply approximately 20,000 gallons of compressor blow down, lab sump, and wash rack water per year, at a rate not to exceed 10 gallons per minute, according to the procedures and conditions of application number 11-266. The application site is located in the northern half of Section 11, Township 56 North, Range 61 West, in the county of Crook, in the State of Wyoming. The application site is located south of Colony, Wyoming. This permit shall be effective until November 1, 2015.

The issuance of this permit confirms that the Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable standards. Compliance with DEQ standards is the responsibility of the permittee, owner, and/or operator.

Nothing in this permit constitutes an endorsement by the DEQ of the disposal method described herein. This permit verifies only that the submitted application meets the standards imposed by the DEQ statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance of, the permitted activity. The permittee, owner and/or operator are solely responsible for any liability arising from the waste disposal permitted. By issuing this permit, the state does not waive its sovereign immunity.

The permittee shall allow authorized representatives from the DEQ, Water Quality Division, to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

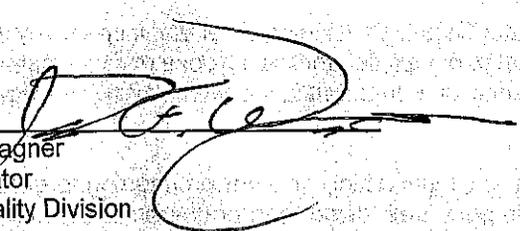
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

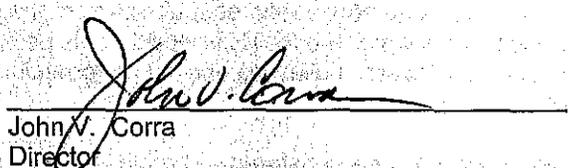
- 1 of 10 The permittee shall notify representatives from the DEQ/WQD at least 48 hours prior to the application of water. The authorized representative in your area can be contacted at the following address: DEQ/WQD, Casper WDEQ Field Office, 152 North Durbin Street, Suite 100, Casper, WY 82604, telephone (307) 473-3452; FAX (307) 473-3458.
- 2 of 10 The permittee shall provide immediate oral and/or written notice to the Casper WDEQ Field Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications to the approved permit package.
- 3 of 10 The permittee shall provide certification that the project was completed in accordance with the terms and conditions of the permit within sixty (60) days of the project completion to the Casper WDEQ Field Office on the attached Certification of Completion form.

- a. Date that the road application was completed; and
- b. Certification the road application was done in accordance with the terms and conditions of the permit; or
- c. Certification the road application was completed with changes or modifications. Submit the information necessary to clearly indicate the road application as actually performed.

- 4 of 10 The review and approval of this permit is based upon the items identified in the attached Statement of Basis.
- 5 of 10 The compressor blow down, lab sump, and wash rack water shall not be applied during the period from November 1 to April 10.
- 6 of 10 The application site slope shall not exceed eight percent (8%) for vehicular application.
- 7 of 10 Application of compressor blow down, lab sump, and wash rack water shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
- 8 of 10 Only the roads designated in this permit are authorized for application of the compressor blow down, lab sump, and wash rack water. Additional or alternate sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the WQD.
- 9 of 10 The water will be sampled and analyzed on an annual basis. The laboratory results must be submitted to WDEQ within 30 days of receiving the results.
- 10 of 10 An annual report will be submitted to this office by January 1 of each year. The report will include a copy of the wash water analytical results, a list of the date when water was applied and the amount of water which was applied. The annual report will also include a map showing the roads which had received water for the past year.

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

7/20/11
Date of Issuance

KJM/bb/11-0668; 7/18/2011

STATEMENT OF BASIS

I. General information.

A. Permit Number: 11-266

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)

A. Chapter XI. No

B. Chapter XII. No

III. Basis for issuing permit. (Indicate yes or no for each section.)

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

No

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

No

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

There are no numeric standards or criteria in Chapter XI for road application. W.S. 35-11-301 (a)(iii) requires a permit to be issued when any disposal system capable of causing or contributing to pollution is constructed, installed, modified, or operated.

B. Briefly state the basis for the deviation.

Road application is permitted when DEQ authorized disposal facilities are not readily available, a beneficial use of the waste to be applied is possible, and significant impact to waters of the State is minimized.

C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).

District Policy numbers 10.1 (4/9/91), 10.2 (10/17/86), 10.3 (8/91), 10.4 (10/24/91), and 10.6 (1/18/91) address the statutory authority to regulate the road application of waste, establish criteria for characterizing the waste, and determine acceptable conditions for the application of the waste to roadbeds to minimize impact to waters of the State.

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III¹. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

NA

VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

A. Facility will not allow a discharge to groundwater. Briefly describe:

The opportunity for direct or indirect discharge, percolation, or filtration to groundwater is minimized by uniformly applying the wash water onto the roadbed. Repeated applications of wash water on the same sections of road will be monitored by roadbed analyses.

B. Quality of waste is such that it will not cause a violation of groundwater standards. Briefly describe:

NA

C. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

NA

D. Basis of facility design is that it will be operated so as not to violate groundwater standards (example: maintenance of manure pack at animal waste treatment facility). Briefly describe:

NA

E. Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

NA

F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal and any other information documenting that any users of affected aquifer will not be impacted.

NA

G. Briefly describe monitoring system (parameters, frequency, etc.). Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

NA

VII. Documentation of Statement of Basis.

A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Kim Medina, Project Geologist, and completed on July 18, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

KJM/bb/11-0669



Department of Environmental Quality

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Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 22, 2011

Jamie Peterson
1209 9th Street
Wheatland, WY 82201

RE: Jamie Peterson Residential Septic System,
Location: NW¼ NE¼ Section 36, T25N, R68W,

Application No. 11-267
Platte County

Dear Ms. Peterson:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1000 gallon, single compartment concrete septic tank and about 400 feet of rock and pipe leachfield divided into four equal length trenches of 100 feet each for a **4 bedroom house** in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 25 of the Water Quality Division Rules and Regulations, the general permit, the condition listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific condition also applies:

Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **the septic tank compartment** must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on July 22, 2013. Please reference Application Number 11-267 in any future correspondence.

If you have any questions, please contact me at ron.ewald@wyo.gov or (307) 777-6183.

Sincerely,

Ronald L. Ewald
Assistant Southeast District Engineer
Southeast District, Water & Wastewater Section
Water Quality Division

RLE/rm/11-0687

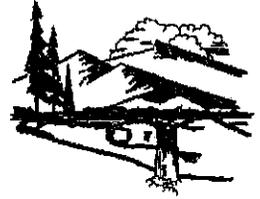
Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Platte County Planning Office, Dennis Becker, PO. Box 728, Wheatland, WY 82201





Department of Environmental Quality



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Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 20, 2011

Dave Palmer
Four Whatever, Inc.
501 South Main
Rock Springs, WY 82901

RE: Green River - River Cove Addition Subdivision - Permit Number 11-268R, E 1/2 Section 35, T18N, R107W, Sweetwater County

Dear Mr. Palmer:

The above application for coverage under General Permit to Construct the extension of a public water supply distribution system consisting of about 1040 linear feet (LF) of 10-inch PVC water main and the extension of a sewage collection system consisting of about 2002 LF of 8-inch PVC sewer main to serve a 20 lot subdivision in accordance with Chapter 3, Section 7, Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permits. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne

xc: Gene Legerski, P.E., Choice Engineering Services, 404 North St., Suite 201, Rock Springs, WY 82901





Department of Environmental Quality



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Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 25, 2011

John W. Canaday, Jr.
City of Green River
50 East 2nd North
Green River, CO 82935

RE: Green River - 2011 Tomahawk Water Line Project - Permit Number 11-270, NE ¼ Section 22, T18N, R107W, Sweetwater County

Dear Mr. Canaday:

The above application for coverage under General Permit to Construct the extension of a public water supply distribution system consisting of the extension of a 6-inch PVC stub out in accordance with Chapter 3, Section 7, Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 11-271

PacifiCorp Jim Bridger Power Plant - Replacement of Sewage Treatment Facility

This permit hereby authorizes the applicant:

Bob Arambel
PacifiCorp Jim Bridger Power Plant
P.O. Box 158
Point of Rocks, WY 82942

to construct a domestic wastewater treatment facility consisting of sewage pretreatment, primary treatment, secondary settling, sludge handling and disposal, disinfection and a sewage treatment building to serve the power plant workforce at an average sewage treatment rate of 15 gallon per minute, according to the procedures and conditions of the application number 11-271. The facility is located about 9 miles north of Point of Rocks, WY, at Lat 41.739, Lon -108.778 in the county of Sweetwater, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by August 2, 2013.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 8 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 8 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 8 This Permit to Construct is being issued based on a proposed sewage treatment facility design. The final design of the sewage treatment facility must be submitted to the Southwest District Engineer at least 30 days before construction starts for approval. The design must be performed by a professional engineer licensed in the State of Wyoming.
- 4 of 8 Treated sewage effluent is to be routed through Unit 4 effluent pond #91 and then only discharged into the Jim Bridger Power Plant Evaporation pond permitted by the Office of the State Engineer under Permit 9596 for reservoirs.
- 5 of 8 Treated wastewater monitoring results shall be retained and available for inspection upon request by the Wyoming Department of Environmental Quality. Copies of records shall be maintained by the plant operator.
- 6 of 8 The required treated wastewater monitoring and sampling frequency is listed in the attached Monitoring Schedule on page 4 of 4 of this permit.

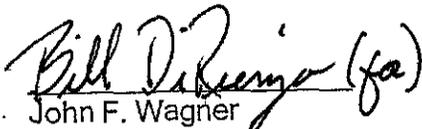
7 of 8

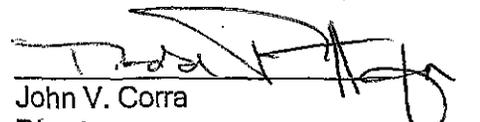
If the treated wastewater is found to be in non-compliance with either Fecal Coliform Bacteria or Chlorine Residual results must be immediately reported to the Wyoming Department of Environmental Quality.

8 of 8

The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

8-5-11
Date of Issuance

MDB/rm/11-0710

STATEMENT OF BASIS

1. Permit Number: 11-271

2. Application reviewed for compliance with the following regulations:

Chapters 3 and 11 of the Wyoming Water Quality Rules and Regulations.

3. Does the permit comply with all applicable regulations identified above?

No. The discharge limits are based upon Chapter 11, Section 55(c)(i) numerical water quality criteria for special situations as adjusted for the current E. Coli surface water standard. The treated sewage effluent discharges into a non-permitted 4910 acre-foot non-discharging, non-potable utility and evaporative effluent pond.

4. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.

Sewerage systems are exempted from review by Chapter 3, Section 17.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

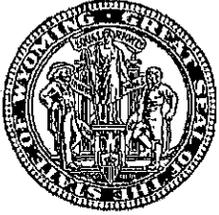
The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., Southwest District Engineer, mark.baron@wyo.gov, and completed on August 3, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents permit conditions, and the items identified in this "Statement of Basis."

cc: Michael W Meyer, P.E., Jim Bridger Power Plant, P.O. Box 158, Point of Rocks, WY 82942

PacifiCorp Jim Bridger Power Plant Wastewater Treatment Facility - Monitoring Schedule -
Treated Wastewater Reuse Monitoring and Reporting Requirements WDEQ/WQD Permit
Number 11-271, Sweetwater County, August 3, 2011.

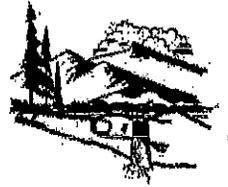
Parameter	Method ¹	Regulatory Limit	Point of Compliance	Sampling Frequency
Biochemical Oxygen Demand (BOD)	SM5210B	30 mg/l maximum.	At the point of discharge to effluent pond.	Twice annual grab sample. Record to be kept.
Total Suspended Solids (TSS)	SM2540D	100 mg/l maximum.	At the point of discharge to effluent pond.	Twice annual grab sample. Record to be kept.
E. coli Bacteria	SM9223B	126 cfu/100 ml maximum.	At the point of discharge to effluent pond	Twice annual grab sample. Record to be kept.
Chlorine Dosage	Chlorine meter.	Target dosage 10 mg/l.	Before the Contact Tank.	Daily. Record to be kept.
Chlorine Residual	Chlorine meter.	50 mg/l maximum.	At the point of discharge to effluent pond.	Daily. Record to be kept.
Chlorine Residual	Chlorine meter.	1 mg/l minimum.	Contact tank.	Daily. Record to be kept.

1. Equivalent wastewater testing methods may be used.



Department of Environmental Quality

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environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

July 15, 2011

Dan Coughlin
Sheridan Area Water Supply
224 South Main, Suite 428
Sheridan, WY 82801

RE: Transfer of Ownership,
Saddleview Meadows Subdivision Water System
Sheridan County, Reference Permit #08-045
Permit #11-272

Dear Mr. Coughlin:

The above Transfer of Ownership for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems in accordance with Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations (WWQRR) has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package.

If you have any questions, please contact me at (307) 473-3478.

Sincerely,

Karen L. Farley, P.E.
NE District Engineer
WDEQ/WQD

Enclosures

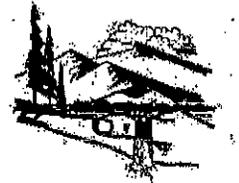
cc: IPS, Cheyenne
WDEQ Casper File
Roger St. Clair, Wagonspoke, LLC, 40 East Works, Sheridan, WY 82801
Dayton Alsaker, P.E., Dowl HKM, 16 West 8th Street, Sheridan, WY 82801





Department of Environmental Quality

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environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

July 20, 2011

Steven Jordan
P.O. Box 893
Moorcroft, WY 82721

RE: Transfer of Ownership,
Glenn Residential Septic System
Crook County, Reference Permit #07-744
Permit #11-273

Dear Mr. Jordan:

The above Transfer of Ownership for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package.

If you have any questions, please contact me at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3478. Thank you.

Sincerely,

Karen L. Farley, P.E.
NE District Engineer
WDEQ/WQD

Enclosures: General Permit

cc: IPS, Cheyenne
WDEQ File
Ben Glenn, Box 543, Moorcroft, WY 82721
Tim Lyons, Crook County, P.O. Box 37, Sundance WY 82729





Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

August 8, 2011

Mr. Leon Pierce
Town of Burns
102 E. 1st Street
Burns, WY 82053

RE: Town of Burns Prairie Avenue Extension Project
Application No. 11-274, Laramie County

Dear Mr. Pierce:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and or Existing Sewage Collection Systems described as installation of approximately 306 ft of 8 inch PVC watermain, Section 7, T14N R 62W; Laramie County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by August 8, 2013.

This **Notice of Coverage** is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General Permits can be viewed at the following path: http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp. Please reference Application No. 11-274 in any future correspondence.

If you have any questions, please contact me at 307-777-7075.

Sincerely,

Richard R. Cripe PE
Southeast District Engineer
Water Quality Division

RRC/rm/11-0725

Enclosure: Certificate of Completion

cc: IPS, Cheyenne
R. Scott Cowley, AVI, 1103 Old Town Lane, Suite 101, Cheyenne, WY 82009





Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

August 8, 2011

Mr. Leon Pierce
Town of Burns
102 E. 1st Street
Burns, WY 82053

RE: Town of Burns Water Main Relocation Project
Application No. **11-275**, Laramie County

Dear Mr. Pierce:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and or Existing Sewage Collection Systems described as installation of approximately 1420 ft of 8 inch PVC water main, Section 7, T14N R 62W; Laramie County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by August 8, 2013.

This **Notice of Coverage** is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General Permits can be viewed at the following path: http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp. Please reference Application No. **11-275** in any future correspondence.

If you have any questions, please contact me at 307-777-7075.

Sincerely,

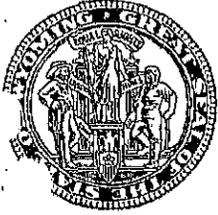
Richard R. Cripe PE
Southeast District Engineer
Water Quality Division

RRC/rm/11-0726

Enclosure: Certificate of Completion

cc: IPS, Cheyenne
R. Scott Cowley, AVI, 1103 Old Town Lane, Suite 101, Cheyenne, WY 82009





Department of Environmental Quality

*To protect, conserve, and enhance the quality of Wyoming's
environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

August 18, 2011

Mr. Kevin Finn, Fire Chief
Natrona County Fire District
PO Box 820
Mills, WY 82644

RE: Natrona County Fire District - Station #7, Application No. 11-278

Dear Mr. Finn:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems in accordance with Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit. The general permit is available for download at http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp.

If you have any questions, please contact me at 307-473-3471.

Sincerely,

Kevin J. Frank

Kevin J. Frank
Project Engineer
Water Quality Division

cc: - IPS, Cheyenne
✓ - Shane M. Porter, PE; WLC Engineering, Surveying, and Planning
200 Pronghorn; Casper, WY 82601



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 11-276

SPECIAL CONDITIONS
WYPDES # WYG720274

FORMER ATLAS D MISSILE SITE
GROUNDWATER EXTRACTION WELL AND MONITORING WELLS

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82001

to construct, install or modify a Granular Activated Carbon (GAC) Treatment System, monitoring wells according to the procedures and conditions of the application number 11-276. The facility is located in NE ¼, Section 29, T13N R68W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed August 16, 2013.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Pollution Control Office, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781; FAX (307) 777-5973.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 8 The applicant will provide immediate oral or written notice to the DEQ/WQD Groundwater Pollution Control Office in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 8 No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division. After the monitoring well(s)/piezometer(s) have fulfilled their purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements.
- 3 of 8 WDEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor well(s)/piezometer(s) and sample collection so that they may be on site if deemed necessary.
- 4 of 8 The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).
- 5 of 8 The results of any other analyses conducted on soil or water removed from these wells/piezometers or boreholes shall be provided to the department as soon as they are available.
- 6 of 8 Environmental Monitoring Program for Groundwater of the State:
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity and performed in accordance with WDEQ or EPA approved Standard Procedures or Quality Assurance/Quality Control (QA/QC) Plan.
 - b. The permittee shall maintain records of all monitoring information for a period of at least 3 years.
 - c. Records of monitoring information shall include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The name(s) of individual(s) who performed the sampling or measurements;
 - iii. The Mean Sea Level elevation of the water table to the closest .01 ft., and the depth to water (to the closest .01 ft.) from a marked measuring point at the top of casing;
 - iv. Sampling procedures and sample preservation accomplished;
 - v. The date(s) analyses were performed;
 - vi. Names of individuals who performed the analyses;

- vii. The analytical techniques or methods used;
- viii. The results of such analyses, and;
- ix. Monitor wells shall be sampled and the groundwater analyzed as indicated on the following table:

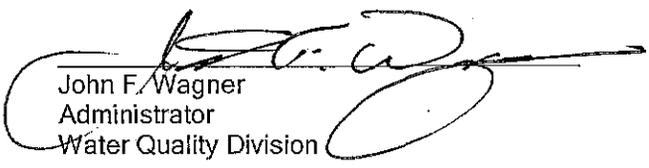
WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT*
MW 46 MW 47 MW 48 MW 49 MW 50 EW 01	initially after well completion, beginning in August and may extend through November 2011	SW8260B	VOC's	

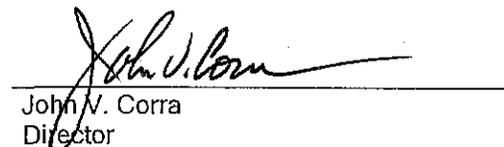
*Permit Limits (i.e. Groundwater Protection Standards) are only required for compliance monitoring wells. All chemical concentrations in this permit are expressed in mg/l unless otherwise noted. These four new monitoring wells shall be added to the existing semi-annual sampling program.

7 of 8 The results of these analyses shall be submitted to the Cheyenne office at the following address: Groundwater Pollution Control Office, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002 by the last day of the month following the end of each reporting period. The first set of results are due no later than January 1, 2012.

8 of 8 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


 John F. Wagner
 Administrator
 Water Quality Division


 John V. Corra
 Director
 Department of Environmental Quality

Date of Issuance 8-29-11

RRC/

cc: Mark Selman, Sound Earth Strategies, 8000 W. 14th Ave. Suite 7, Lakewood, CO 80214
 Jane Francis
 Kevin Frederick

STATEMENT OF BASIS

1. Permit Number: 11-276

2. This application was reviewed for compliance with the applicable regulations ;

Chapters 3, 11

3. Does the permit comply with all applicable regulations identified above?

NO

4. The permit approval is based upon a deviation from applicable regulations in accordance with Section 5. of Chapter 11.

a. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

Chapter 12, Section 10 lists Granular activated carbon (GAC) as a water treatment option.

b. Briefly state the basis for the deviation.

Data supplied by the Engineer and the manufacture indicates the raw water will be treated to meet or exceed the WYPDES permit.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Richard Cripe, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on August 25, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND INJECTION CONTROL PERMIT ISSUED UNDER
WYOMING WATER QUALITY RULES AND REGULATIONS
CHAPTER 16

CLASS V INJECTION WELL

() New

(X) Modified (Renewal)

~~Permit Number: 11-277~~

Facility Number: WYS-001-028

State Subclass: 5E3

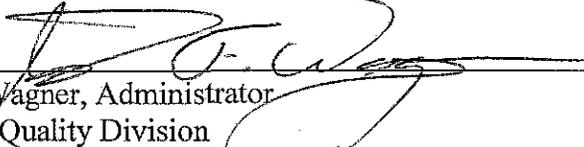
Previous Permit Number: 99-258

In compliance with the Wyoming Environmental Quality act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a)(iv), Laws 1973, Ch. 250, Section 1) and Wyoming Water Quality Rules and Regulations, Chapter 16.

Applicant: Snowy Range Ski Area
Mr. Aaron Maddox
P. O. Box 247
Centennial, WY 82055
(970) 846-6971

Snowy Range Ski Area, hereafter referred to as the permittee, is authorized to operate the septic system located in the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 20, Township 16 North, Range 78 West, of the 6th Principal Meridian, Albany County. The permittee is allowed to operate the facility according to the procedures, conditions, and requirements of this permit.

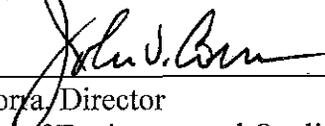
This permit shall become effective on date of issuance.



John Wagner, Administrator
Water Quality Division
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002
(307)-777-7781

12/23/11

Date



John V. Corra, Director
Department of Environmental Quality
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002

12/28/11

Date

CMc/rm/11-1080

Table of Contents

A.	Discharge Zone.....	3
C.	Groundwater Classification.....	3
D.	Authorized Operations.....	3
E.	Hazardous Waste.....	4
F.	Proper Operation and Maintenance.....	4
G.	Entry and Inspection.....	4
H.	Environmental Monitoring Program for Groundwaters of the State.....	5
I.	Requirements for Monitoring Groundwaters of the State.....	6
J.	Test Procedures.....	7
K.	Records and Reports.....	7
L.	Permit Actions.....	7
M.	Abandonment.....	8
N.	Duties of the Permittee.....	8
O.	Signatories Requirement.....	9
P.	Noncompliance.....	10
Q.	Permit Transfer.....	10
R.	Property Rights.....	10
S.	Severability.....	10

A. Discharge Zone

This injection facility (sanitary leachfield) is authorized to inject 2,430 gallons per day average and 9,000 gallons per day maximum. The primary treated wastewater is injected into the Alluvial Aquifer, which consists of mineral soil, glacial material, and decomposed mylonitic gneiss (basement rock). Distance to groundwater was not confirmed; however it is known to be greater than 20 feet below land surface in the immediate vicinity of the leachfield by way of test excavations (excavations did not reach bedrock nor groundwater at the leachfield site).

B. Well and Area of Review

The injection well authorized by this permit is located as follows:

SW¼ of the NW¼ of Section 20, Township 16 North, Range 78 West, of the 6th Principal Meridian, Albany County

The Area of Review is defined as a circular area of 360 acres with the injection facility located near its center.

The Area of Review is based upon the following assumptions:

Table 1 (Area of Review Inputs)

Description	Inputs	Units
Permit Duration	10	Years
Porosity	20	Percent
Maximum Injection Rate	9,000	GPD
Thickness of Receiver	>20	Feet
Area of Review	360	Acres
Hydraulic Conductivity	6-7	Feet/Day

C. Groundwater Classification

The groundwater in the Alluvial Aquifer beneath the permittee's property is classified as Class I according to Wyoming Water Quality Rules and Regulations, Chapter 8. This classification is made because the groundwater in this formation is currently being used for domestic purposes at two nearby points of withdrawal.

Ground water of Class I shall not be degraded to make it unusable as a source of water for this purpose. An aquifer that contains less than 10,000 mg/L total dissolved solids (and is not exempted) can be considered an underground source of drinking water.

D. Authorized Operations

The operator is authorized to inject at a pressure of no more than atmospheric pressure as measured at the leachfield. This pressure is controlled by gravity drainage and is not required to be monitored. The permittee is authorized to inject a maximum of 9,000 gallons per day. The wastewater is produced from a seasonal use ski lodge, a kitchen and dining hall, and a bar. The

wastewater is injected into the unconfined alluvial aquifer. The wastewater is described as primary treated domestic sewage from septic tanks.

If additional sewage flows are added beyond those identified in the permit application, the leach field and/or treatment system may need to be enlarged in which case the permittee must submit a revised application and receive a new permit prior to modification of the leach field or treatment system.

E. Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined in 40 CFR 261.3 and in Wyoming Solid Waste Management Rules and Regulations, Chapter 2. Injection of any substance defined as a hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

F. Proper Operation and Maintenance

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. The permittee shall operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes: effective performance, adequate funding, operator staffing and training, and laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit. The injection wells covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapters 11, 16 and 25.

The permittee is required to operate in accordance with statements, representations and procedures presented in the complete permit application and supporting documents as accepted and approved by the Administrator. Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued. Injection into a well may not begin until construction is complete and the permit is approved.

G. Entry and Inspection

The permittee shall allow the Administrator (upon presentation of credentials and during normal working hours) to enter the premises where a regulated facility is located, or where records are kept under the conditions of this permit and inspect and photograph the discharge and related facilities, review and copy reports and records required by this permit, collect fluid samples for analysis, measure and record water levels, and perform any other function authorized by law or regulation.

H. Environmental Monitoring Program for Groundwaters of the State

General Requirements:

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall retain records of all monitoring information including all calibration and maintenance records, copies of the reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample measurement, report, or application. This period may be extended by request of the Administrator at any time.
3. The permittee shall use electronic data deliverable (EDD) reporting when required by the Administrator.
4. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The initials or name(s) of the individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. The time(s) analyses were initiated;
 - e. The initials or name(s) of the individual(s) who performed the analyses;
 - f. References and written procedures for the analytical techniques or methods used;
 - g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.
5. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
6. The permittee shall retain all records concerning the nature and composition of injected fluids until five (5) years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
7. The permittee shall report any noncompliance which may endanger health or the environment within 24 hours from the time the operator becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state;
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable ground waters of the state;
 - c. A written submission shall be provided within 5 days of the time the operator becomes aware of the circumstances. This written submission shall contain a description of the

noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

8. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted.
9. The monitoring reports shall be submitted on forms provided by the Department. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 45 days following each schedule date.

I. Requirements for Monitoring Groundwaters of the State

The groundwater in the receiving formation shall be sampled and the following parameters analyzed according to the schedule identified in Table 2. The following parameters shall be analyzed semi-annually and reported annually:

Table 2 (Annual Groundwater Monitoring Schedule)

WELL NAME OR NUMBER	SAMPLING SCHEDULE	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT or UCL
Wetherill #2 (monitoring well up gradient of leachfield)	Semi-Annually (January – June and July-December)	Ammonia as N	EPA A 4500 NH ₃ G	0.50 mg/L
		Chloride	EPA 300.0	250 mg/L
		Nitrate as N	EPA 353.2	10 mg/L
		Depth to static water level	Steel tape with chalk or electronic tape	Not applicable
		Top of casing elevation (ft)	Casing elevation must be surveyed	Not applicable
Wetherill #1 (monitoring well & public supply, down gradient of leachfield)	Semi-Annually (January-June and July-December)	Fecal Coliform	SM 9222D	0 colony/100 ml
		Ammonia as N	EPA A 4500 NH ₃ G	0.50 mg/L
		Chloride	EPA 300.0	250 mg/L
		Nitrate as N	EPA 353.2	10 mg/L
		Total monthly volume pumped	Flow meter	Not applicable
Septic Tanks	Semi-Annually (January-June and July-December)	Total Volume Injected	Flow Meters	9,000 gallons per day
	Annually, at end of winter season (at least)	Sludge depth in tank (ft)	Visual	2 feet

*All applicable chemical concentrations in this permit are expressed as total (not dissolved) in mg/l unless otherwise noted. The septic tanks serving the Snowy Range Ski Area are to be inspected, at a minimum, annually at the end of the winter season, and must be pumped as

necessary based on sludge depth at bottom of septic tanks. A copy of the invoice for pumping the tanks is to be included with the annual report.

The grease trap and septic tanks must be inspected annually and pumped at least every 5 years. Sludge depth is not to exceed 24" in the septic tanks and 6" in the grease trap.

All annual reports are to be reported within forty-five (45) days of the last day of each year (February 14th).

The above upper control limits (UCL) cannot be exceeded in any sample. Exceedance of these values is a violation of this permit and shall require notification under Section K of this permit. If the UCL is exceeded in a sample, additional monitoring wells may be required to determine whether groundwater has been impacted and to delineate the nature and extent of any contamination resulting from operation of the permitted facility. Surface water samples (upstream and downstream of the facility) of Nash Fork Creek may be required if any of the monitoring wells show a Nitrate exceedance.

J. Test Procedures

All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. All samples taken shall include a trip blank of distilled water for each sampling date and a duplicate sample at least once per year. All required analyses shall be conducted in compliance with Wyoming Water Quality Rules and Regulations, Chapter 8, Section 7.

K. Records and Reports

The permittee shall furnish to the Administrator within a specified time any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit. The permittee shall retain copies of all records and reports required by this permit for a period of three (3) years following permanent well abandonment. After that time, those records shall be delivered to the Administrator for disposal or archive at his discretion. Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator within twenty-four (24) hours, and a written submission (via certified mail) shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written submission shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance. Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above. The permittee shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion, or abandonment of the well covered by this permit.

L. Permit Actions

This permit is authorized for a period of ten (10) years. If the permittee wishes to continue injection after the expiration date of this permit he shall apply to the Administrator and obtain a

new permit. The application should be submitted at least 180 days before the expiration date of this permit. Under this permit, the Department may consider injection after the expiration date a violation of the permit.

It shall not be a defense for the permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to any of the following:

1. Violation of this permit; or
2. Obtaining a permit by misrepresentation of facts in the application.

This permit will be reviewed at least once every five (5) years, and may be reviewed more frequently. A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit was issued. A permit may be modified in whole or part in order to apply more or less stringent standards; or prohibitions for toxic or other substances present in the permittees discharge as may be ordered by the Environmental Quality Council.

M. Abandonment

General Requirements:

1. The permittee shall notify the administrator at least thirty (30) days prior to abandonment of the facility.
2. An abandonment report, detailing the compliance with abandonment procedures outlined in the original application for coverage under this permit, or describing any deviations from the original plan, shall be submitted as soon as practicable after abandonment. The abandonment shall include reclamation of the well site.
3. Injection wells covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 16, Section 12.

N. Duties of the Permittee

The permittee shall give advance notice to the Administrator as soon as possible of any planned physical alteration or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alternation or addition. The permittee shall furnish the Administrator within a reasonable time any information which the Administrator may request to determine whether cause exists for modifying, revoking, or reissuing, or terminating this permit, or to determine compliance with this permit; and to furnish to the Administrator upon request, copies of records required to be kept by this permit.

Any modification which may result in a violation of a permit condition shall be reported to the Administrator, and any modification that will result in a violation of any permit conditions shall be reported to the Administrator through the submission of a new or amended permit application. The permittee shall report all instances where he becomes aware that he failed to submit any relevant facts in the permit application, or where he submitted incorrect information in a permit application or in any report to the Administrator, and shall promptly submit such facts or information.

If any cultural materials are discovered during construction, work in the area should halt immediately. The Administrator and the Wyoming State Historic Preservation Office shall be contacted (777-7697) and the materials shall be evaluated by an archaeologist or historian meeting the Secretary of the Interior's Professional Qualification Standards (48 FR 22716, Sept. 1983).

O. Signatories Requirement

All reports filed in conjunction with this permit shall contain the following certification:

"I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

All reports required by this permit and other requested information shall be signed as follows:

For a corporation – by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship – by a general partner or the proprietor, respectively;

For a municipality, state, federal, or other public agency – by either a principal executive officer or ranking elected official; or

By a duly authorized representative for any of the above. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the prescribed principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
3. The written authorization is submitted to the Administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to

the Administrator prior to or together with any reports or information, to be signed by the new authorized representative.

P. Noncompliance

The permittee shall comply with all conditions of the permit. Any permit noncompliance constitutes a violation of Wyoming Water Quality Rules and Regulations, Chapter 16 and is grounds for enforcement action, permit termination, revocation, or modification. Conformed noncompliance resulting in an excursion shall be reported to the Administrator orally within twenty-four (24) hours, and a written submission shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written report shall contain the sections specified in Section K of this permit. Any permit noncompliance constitutes a violation of this permit.

The filing of any request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

Q. Permit Transfer

Any transfer of this permit shall be accomplished by the submission of the proper forms for permit transfer to the Administrator. Transfer of this permit must first be approved by the Administrator and the Director. No transfer shall be approved unless the proposed permittee agrees to bring any and all noncompliance issues into compliance with this permit. The permittee is alone responsible for the operation of the facility covered by this permit. Sale of the facility and subsequent operation of this facility by another is a violation of this permit unless a transfer of this permit has first been accomplished.

R. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege. This permit does not authorize injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

S. Severability

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

-End of Permit-



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

John Corra, Director

December 23, 2011

Snowy Range Ski Area
Attn: Mr. Aaron Maddox
P. O. Box 247
Centennial, WY 82055

RE: Snowy Range Ski Area
Final Permit 11-277, Class V Septic System
Albany County, Wyoming

Dear Mr. Maddox:

Attached please find one copy of the Class V septic system permit for the facility referenced above. This permit requires annual inspection and periodic pumping of the septic tanks. The corresponding report forms can be filled out using our on-line webform (Monitor Reports Link), or one may have the lab submit them using Electronic Data Deliverable (EDD) at the following site: <https://gem.trihydro.com>. For your convenience, the Wyoming Department of Environmental Quality (WDEQ) has printed the inspection forms and enclosed them in this mailing, you may use the paper forms to report your inspection and monitoring activities to WDEQ.

The underground injection control program was promulgated to prevent serious problems caused by direct discharges to the groundwater. Those problems included groundwater pollution leading to contamination in domestic water wells and serious health affects caused by exposures to toxic substances and water borne pathogens. Your cooperation with our program is sincerely appreciated.

If you have any questions please do not hesitate to contact me at the below referenced phone number or email.

Sincerely,

Carol McAdams, Geologist
Wyoming Department of Environmental Quality
Water Quality Division
(307) 777-2960
carol.mcadams@wyo.gov

CMc/rm/11-1080

Enclosures: Permit
Monitoring Report Forms

cc: John Passehl, WDEQ





Department of Environmental Quality

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environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

July 28, 2011

John Kiplinger
P.O. Box 554
Sundance, WY 82729

RE: Kiplinger Small Residential Wastewater System, Crook County, Permit # 11-279
Location: 2531 Old Sundance Road, Sundance, WY
SE ¼, SE ¼, Section 35, T51N, Range 64W;

Dear Mr. Kiplinger:

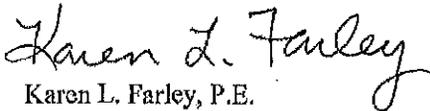
The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage, http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater, both horizontal and vertical. This requirement includes both the pipeline from the house to the septic tank and from the septic tank to the leachfield.
2. Either a 6-inch diameter clean-out riser or a manway from each compartment of the septic tank must be extended to the ground surface from all septic tanks.

Please be advised that Crook County inspects all small wastewater systems permitted through WDEQ. Please contact Crook County Growth and Development at 307.283.4548 to arrange an inspection of the system. **Septic systems shall not be installed during adverse weather. This includes rain, snow, severely cold temperatures, or excessively moist soils.** Please contact me with questions at 307-473-3478.

Sincerely,



Karen L. Farley, P.E.
WDEQ/WQD

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development, PO Box 848, Sundance, WY 82729
Shoun's Plumbing and Heating, 304 Cleveland, Sundance, WY 82729

Cheyenne
122 West 25th Street 82002
(307) 777-7937

Lander
510 Meadowview Drive 82520
(307) 332-3144

Sheridan
2100 W. 5th Street 82801
(307) 673-9337



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 11-282

Big Goose WTP Clearwell Addition
PWS# WY5600052

This permit hereby authorizes the applicant:

City of Sheridan
55 Grinnell Plaza
Sheridan, Wyoming 82801

to construct, install or modify a new 1.5 million gallon clearwell at the existing Big Goose Water Treatment Plant, modifications to the existing clearwell, associated site work, piping, electrical/instrumentation, and miscellaneous appurtenances, according to the procedures and conditions of the application number 11-282. The facility is located approximately 11 miles southwest of City of Sheridan, in SW1/4 SE1/4 of Section 25, Township 55 North, Range 86 West, in the County of Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2013.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

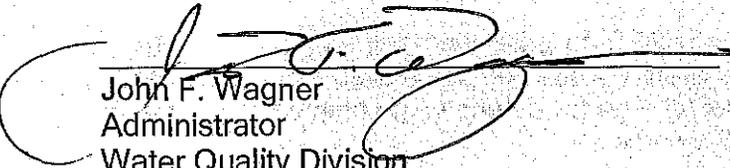
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

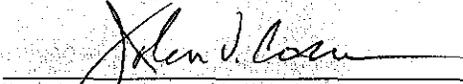
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 4 The applicant will provide immediate oral or written notice to the DEQ/WQD Northeast District Office in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations (WWQRR) of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Northeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".
- 4 of 4 Construction of the clearwell will not commence until the DEQ/WQD Northeast District Office has been provided the clearwell structural and foundation designs sealed by a Wyoming professional engineer and been given the opportunity to review and approve the designs.

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

8-1-11
Date of Issuance

KJF/rm/11-0702

STATEMENT OF BASIS

1. Permit Number: 11-282
2. Application reviewed for compliance with the following applicable regulations:
 - a. Chapters 3 and 12.
3. Does the permit comply with all applicable regulations identified above?
Yes
4. Facilities not specifically covered by regulations
 - a. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
Not applicable
 - b. Briefly state the basis for the deviation.
Not applicable
5. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
not required
6. Documentation of Statement of Basis.

The archive file for this permit will include adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter 3, Wyoming Water Quality Rules and Regulations. This review was performed by Kevin Frank, SRF Project Engineer, and completed on July 28, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 11-283

R360 Niobrara Silo Fields Expansion – Phase I
Commercial Oilfield Wastewater Evaporation Pond

This permit hereby authorizes the applicant:

R360 Niobrara, Inc
Greenspoint Plaza #4, 16945 Northchase Drive
Houston, TX 77060

to construct, install or modify up to ten (10) evaporative pond cells for disposal of oilfield exploration and production wastewaters, according to the procedures and conditions of the application number 11-283. The facility is located in a portion of the northeast quarter of Section 12, Township 15 North, Range 65 West, in the county of Laramie, in the State of Wyoming. The facility is located approximately 15 miles northeast of Cheyenne, Wyoming. All construction, installation, or modification allowed by this permit shall be completed by July 1, 2016.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 11 The applicant will notify the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, Phone 307-473-3465, FAX 307-473-3458 of the date construction will begin and the estimated completion date.
- 2 of 11 The applicant will provide the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, the name of the type and brand of the primary and secondary liner, the liner manufacturer(s), the liner installation contractor(s), and all other required documentation related to the liners, at least two weeks prior to beginning construction. The manufacturer(s) will need to submit recommended installation methods that include cold weather installation. At a minimum, installation should be conducted in accordance with "Cold Weather Seaming of Geomembranes", Geosynthetic Institute, GRI Test Method GM9 or a comparable method.
- 3 of 11 The applicant will provide immediate oral or written notice to the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, Phone 307-473-3465, FAX 307-473-3458, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 4 of 11 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 5 of 11 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".
- 6 of 11 Measurement of depth to groundwater and testing of groundwater is to be performed prior to filling any ponds at this facility. Groundwater monitoring will be conducted on a quarterly basis and results reported to DEQ within a month after receiving laboratory analytical reports. Samples will be submitted for the following analysis:
 - a) electrical conductivity

- b) pH
- c) chloride
- d) sodium
- e) alkalinity
- f) sulfate
- g) total dissolved solids

The analyte list and monitoring frequency are subject to revision as needed by CBM / Oil and Gas Group, Water Quality Division.

- 7 of 11 The leak detection system is to be checked weekly for the first month following filling of a pond and monthly thereafter with a log kept of the inspection results. As new ponds are constructed, the leak detection system is to be checked weekly for the first month. If fluid is found, the DEQ CBM / Oil and Gas Group is to be notified immediately, and samples are to be pulled from the inspection pipes and tested for total petroleum hydrocarbons (TPH) by EPA Method 8015 (modified), chlorides, total dissolved solids (TDS) and sulfates. Results are to be reported to DEQ as soon as they are available. Testing requirements are subject to revision as needed.

If a leak is confirmed, the pond(s) will be pumped dry of all wastewater. No additional wastewater will be placed into the pond(s) until a complete inspection and test of the liner is completed.

- 8 of 11 Fluids in the ponds are to be checked annually for the following constituents. Each pond will be sampled and analyzed separately in accordance with the following list:

- a) electrical conductivity
- b) pH
- c) chloride
- d) sodium
- e) alkalinity
- f) sulfate
- g) barium
- h) total dissolved solids

The results of the pond analyses are to be reported to DEQ within one month after receiving laboratory analytical reports. The analyte list and monitoring frequency are subject to revision by CBM / Oil and Gas Group, Water Quality Division.

- 9 of 11 The facility is authorized to receive oilfield exploration and production waste (production water, produced water, frac water, and CBM produced water only), exempt from RCRA regulations by EPA. Drill cuttings are **not** authorized for disposal at this facility. Any other waste must be approved on a case by case basis by the DEQ and the owner. Prior to approval for disposal by DEQ/WQD, all other waste will be subject to rules, regulations, policies, and/or procedures related to hazardous waste determination and disposal, as issued or promulgated by DEQ/Solid and Hazardous Waste Division (SHWD).

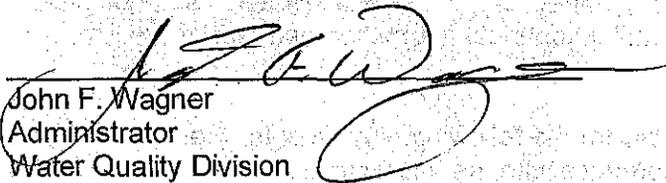
- 10 of 11 **This permit is for the construction of the evaporation ponds only.** No treatment and/or phase separation facilities have been authorized under this permit. Further, until a permitted treatment system and/or phase separation facility has been constructed, the evaporation ponds may not be used.

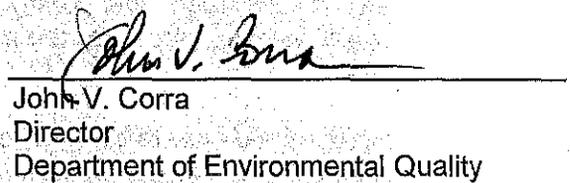
The validity of this permit is subject to the owner maintaining a bond acceptable to the State of Wyoming, DEQ/WQD for the amount of the facility closure and post-closure costs. The

bonding amount is subject to review on an annual basis. The bond amount may be "phased-in", in accordance to the facility construction. However, prior to construction of any pond, financial assurance must be in place which covers the next construction phase. This additional bonding must be acceptable to the State of Wyoming prior to any construction related to that phase.

11 of 11 An annual report will be submitted to DEQ CBM / Oil and Gas Group by April 1 of each year. The annual report will include relevant details of the construction, modification, and operation details of the facility from the previous year, any anticipated construction, modification and/or operational changes for the upcoming year. The report will include a discussion and analysis of the groundwater monitoring, leak detection monitoring and pond analysis. A listing of all non exploration and production wastes accepted by the facility will also be included in the annual report. This listing shall include generator, type of waste, amount and date of disposal. The annual report will also include a review of the closure and post closure requirements, including financial costs. A renewal of the bond will be required as part of the annual report. Reporting requirements are subject to modification by DEQ.

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

9-16-11
Date of Issuance

JDL/KJM/rm/11-0844

cc: Neil Nowak, Weaver Boos Consultants, LLC, 5675 DTC Blvd, Suite 210, Greenwood Village, CO 80111

STATEMENT OF BASIS

1. Permit Number: **11-283**
2. Application reviewed for compliance with the following applicable regulations :

Chapters 3 and 11 of the Wyoming Water Quality Rules and Regulations

3. Does the permit comply with all applicable regulations identified above?

YES

4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.

- a. The permit includes approval to deviate from the following regulatory requirements:

Chapter 11, Part C

- b. Briefly state the basis for the deviation.

The facility is to be constructed without approved treatment and/or phase separation facilities. This is to allow construction of the evaporation ponds during suitable weather conditions. The applicant is aware that the ponds may not be used until an approved treatment and/or phase separation facility is permitted and constructed.

- c. Permit approval is based upon deviation from applicable regulations in accordance with approved policy statement.

Not applicable

5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was required.
6. If Section 17 of Chapter 3 review is required, indicate the basis for determining groundwater will be protected.

The facility will not allow a discharge to groundwater.

Each pond will have a primary liner of 60 mil high density polyethylene with a 40 mil high density polyethylene secondary liner. A compacted clay subgrade will be installed under the secondary liner. A leak detection system will be installed between the two liners. Groundwater monitoring wells will also be installed at the facility to monitor groundwater on a quarterly basis.

Quality of wastewater is such that it will not cause a violation of groundwater standards.

Not applicable

Existing soils or geology will not allow a discharge to groundwater.

Not applicable

The facility is designed and will be operated so that it will not to violate groundwater standards.

Not applicable

Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

Not applicable

If any groundwater quality standards are to be exceeded, briefly describe how any users of the affected aquifer will be protected. The description should include the water quality standard affected, the anticipated maximum concentration, the property boundaries, places of groundwater withdrawal and any other relevant information.

Not applicable

Briefly describe monitoring plan. The groundwater monitoring plan includes the monitoring wells or other sampling points, the parameters to be analyzed, the sampling frequency and reporting methods.

The leak detection system will be checked weekly for the first month after the ponds are filled. A log will be kept of the inspection results. The leak detection system is also monitored by a high level alarm system. If fluid is found, DEQ will be notified immediately. If a leak is confirmed, the pond(s) will be pumped dry of all wastewater. No additional wastewater will be placed into the pond(s) until a complete inspection and test of the liner is completed.

Measurement of depth to groundwater and testing of groundwater is to be performed prior to filling any ponds at this facility. Groundwater monitoring will be conducted on a quarterly basis and results reported to DEQ within a month after receiving laboratory analytical reports. If groundwater monitoring indicates a release to groundwater, a plan to investigate the extent of the release will be submitted to DEQ within 30 days after confirming the release for DEQ's approval. Following approval, the plan will be implemented.

Fluids in the pond are to be checked annually for hazardous constituents by collecting a sample from each pond in operation.

Operational concerns will be identified in an annual report to be submitted to DEQ by April 1 of each year. Any changes in operations, a discussion of groundwater monitoring, leak detection system operation, and pond characterization is to be included in the annual report.

The permit should clearly state the parameters to be utilized for determining compliance and what occurrences constitute a violation. The permit should identify the corrective actions to be taken in the event of a violation of a groundwater standard.

Documentation of Statement of Basis.

The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Kim Medina and Dennis Lamb, CBM / Oil and Gas Group and completed on August 16, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



Department of Environmental Quality

To protect, conserve, and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

August 24, 2011

Reginald Standfield
M-I SWACO
302 East Park Avenue
Riverton, WY 82501

RE: MI SWACO – 4" Water Service, Mills, WY, WDEQ #11-284

Mr. Standfield:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems in accordance with Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the facility(ies) in accordance with the general permits and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage,

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

This permit is valid until August 31, 2012.

If you have any questions, please contact me at 307-473-3478.

Sincerely,

Karen L. Farley, P.E.
Northeast District Engineer, Water Quality Division

Enclosures: Certificate of Completion

cc: Richard E. O'Quinn, 113 S. Lincoln, Casper, WY 82601
Shawn Gustafson, P.E., WLC, 200 Pronghorn, Casper, WY 82601
Lewis James, P.E., JKC Engineering, Inc., 5830 East 2nd Street, Casper, WY 82609
IPS
WDEQ Casper File





Department of Environmental Quality

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environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

August 5, 2011

K.C. and Mary Ann Miller
904 E. 9th Street, Lot 51
Gillette, WY 82716

RE: Miller Residential Small Wastewater System, Crook County
Location: SE ¼ NE ¼ & NW ¼ SE ¼, Section 15, Township 50 North, Range 62 West, Permit # 11-285

Dear Mr. and Mrs. Miller:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage, http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater, both horizontal and vertical. This requirement includes both the pipeline from the house to the septic tank and from the septic tank to the leachfield.
2. Either a 6-inch diameter clean-out riser or a manway from each compartment of the septic tank must be extended to the ground surface from all septic tanks.

Please be advised that Crook County inspects all small wastewater systems permitted through WDEQ. Please contact Crook County Growth and Development at 307.283.4548 to arrange an inspection of the system. **Septic systems shall not be installed during adverse weather. This includes rain, snow, severely cold temperatures, or excessively moist soils.** Please contact me with questions at 307-473-3478.

Sincerely,

Karen L. Farley, P.E.
WDEQ/WQD

Enc. Certificate of Completion

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development



STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND INJECTION CONTROL PERMIT ISSUED UNDER
WYOMING WATER QUALITY RULES AND REGULATIONS
CHAPTER 16

CLASS V INJECTION WELL

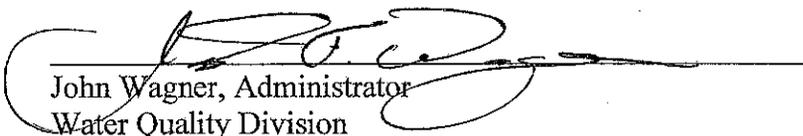
- () New Permit Number **11-286**
Previous Permit Number(s) UIC 01-016,
WQD 84-145
- (X) Modified (Renewal) Facility Number WYS-029-067
State Subclass: 5E3

In compliance with the Wyoming Environmental Quality act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a)(iv), Laws 1973, Ch. 250, Section 1) and Wyoming Water Quality Rules and Regulations, Chapter 16.

Applicant: Painter Estates Homeowners Association
Attn: Mr. Doc Asay
P.O. Box 1314
Cody, WY 82414
(307) 258-0580

Painter Estates Homeowners Association, hereafter referred to as the permittee, is authorized to continue operating the septic systems located in the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 4 Township 56 North, Range 106 West, of the 6th Principal Meridian, Park County. The permittee is allowed to operate the facility according to the procedures, conditions, and requirements of this permit.

This permit shall become effective on date of issuance.


John Wagner, Administrator
Water Quality Division
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002
(307)-777-7781

9/30/11
Date


John V. Corra, Director
Department of Environmental Quality
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002

10/3/11
Date

CAT/rm/11-0899

Table of Contents

A.	Discharge Zone.....	3
C.	Groundwater Classification.....	3
D.	Authorized Operations.....	3
E.	Hazardous Waste.....	4
F.	Proper Operation and Maintenance.....	4
G.	Entry and Inspection.....	4
H.	Environmental Monitoring Program for Groundwaters of the State.....	4
I.	Requirements for Monitoring the Discharge.....	6
J.	Test Procedures.....	6
K.	Records and Reports.....	7
L.	Permit Actions.....	7
M.	Abandonment.....	8
N.	Duties of the Permittee.....	8
O.	Signatories Requirement.....	8
P.	Noncompliance.....	9
Q.	Permit Transfer.....	9
R.	Property Rights.....	10
S.	Severability.....	10

A. Discharge Zone

The septic system is authorized to inject 7,000 gallons per day maximum. The primary treated wastewater is injected into the Alluvial Aquifer along the Clark Fork of the Yellowstone River. Distance to groundwater in the area of discharge is approximately 43 feet below land surface.

B. Well and Area of Review

The injection well authorized by this permit is located as follows:

NW¼ of the NW¼ of Section 4, Township 56 North, Range 106 West, of the 6th Principal Meridian, Park County

The Area of Review is defined as a circular area of 360 acres with the injection facility located near its center.

The Area of Review is based upon the following assumptions:

Table 1 (Area of Review Inputs)

Description	Inputs	Units
Permit Duration	10	Years
Porosity	20	Percent
Maximum Injection Rate	7,000	GPD
Thickness of Receiver	34	Feet
Area of Review	360	Acres
Hydraulic Conductivity	24	Feet/Day

C. Groundwater Classification

The groundwater in the Alluvial Aquifer along the Clark’s Fork of the Yellowstone River is classified as Class I according to Wyoming Water Quality Rules and Regulations, Chapter 8. This classification is made because the groundwater in this formation is currently being used for domestic purposes at several nearby points of withdrawal. Ground water of Class I shall not be degraded to make it unusable as a source of water for this purpose. An aquifer that contains less than 10,000 mg/L total dissolved solids (and is not exempted) can be considered an underground source of drinking water.

D. Authorized Operations

The permittee is authorized to inject 7,000 gallons per day maximum and 4,200 gallons per day average. The wastewater is produced from a residential development containing 20 residential lots with 19 modular homes and 1 permanent residence and consists of primarily treated domestic wastewater. Two separate septic systems serve the development. The east system serves 7 homes and is a conventional, gravity fed system consisting of a 2,000 gallon concrete tank and a 1,500 gallon concrete tank. The maximum injection rate for the east system is 2,800 gallons/day. The west system serves 13 homes and is also a conventional, gravity fed system composed of 3 concrete tanks in parallel; 2-3,000 gallon tanks followed by a 1,000 gallon tank. The maximum injection rate for the west system is 4,200 gallons/day. The wastewater is

injected into the Alluvial Aquifer and described as primary treated domestic sewage from septic tanks.

If additional sewage flows are added beyond those identified in the permit application, the leach field and/or treatment system may need to be enlarged in which case the permittee must submit a revised application and receive a new permit prior to modification of the leach field or treatment system.

E. Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined in 40 CFR 261.3 and in Wyoming Solid Waste Management Rules and Regulations, Chapter 2. Injection of any substance defined as a hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

F. Proper Operation and Maintenance

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. The permittee shall operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes: effective performance, adequate funding, operator staffing and training, and laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit. The injection wells covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapters 11, 16, and 25.

The permittee is required to operate in accordance with statements, representations and procedures presented in the complete permit application and supporting documents as accepted and approved by the Administrator. Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued. Injection into a well may not begin until construction is complete and the permit is approved.

G. Entry and Inspection

The permittee shall allow the Administrator (upon presentation of credentials and during normal working hours) to enter the premises where a regulated facility is located, or where records are kept under the conditions of this permit and inspect and photograph the discharge and related facilities, review and copy reports and records required by this permit, collect fluid samples for analysis, measure and record water levels, and perform any other function authorized by law or regulation.

H. Environmental Monitoring Program for Groundwaters of the State

General Requirements:

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. The permittee shall retain records of all monitoring information including all calibration and maintenance records, copies of the reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample measurement, report, or application. This period may be extended by request of the Administrator at any time.
3. The permittee shall use electronic data deliverable (EDD) reporting when required by the Administrator.
4. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The initials or name(s) of the individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. The time(s) analyses were initiated;
 - e. The initials or name(s) of the individual(s) who performed the analyses;
 - f. References and written procedures for the analytical techniques or methods used;
 - g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.
5. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
6. The permittee shall retain all records concerning the nature and composition of injected fluids until five (5) years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
7. The permittee shall report any noncompliance which may endanger health or the environment within 24 hours from the time the operator becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state;
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable ground waters of the state;
 - c. A written submission shall be provided within 5 days of the time the operator becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

8. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted.
9. The monitoring reports shall be submitted on forms provided by the Department. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 45 days following each schedule date.

I. Requirements for Monitoring the Discharge

The groundwater in the receiving formation shall be sampled and the following parameters analyzed according to the schedule identified in **Table 2**. The following parameters shall be analyzed semi-annually and reported annually:

Table 2 (Annual Groundwater Monitoring Schedule)

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT OR UCL
Monitoring Wells MW-1 MW-2	Semi-Annually (January – June and July-December)	EPA A 4500 NH ₃ G	Ammonia as N	0.50 mg/L
		EPA 300.0	Chloride	250 mg/L
		EPA 353.2	Nitrate as N	10 mg/L
		Casing elevation must be surveyed	Top of casing elevation (ft)	Not applicable
		Steel tape with chalk or electronic tape	Depth to Static Water (ft)	Not applicable
Septic Tanks	Annually, at end of summer season	Visual	Inspection of sludge depth in tank	15 inches

*All applicable chemical concentrations in this permit are expressed as total (not dissolved) in mg/l unless otherwise noted.

The septic tanks serving the development are to be inspected annually at a minimum, and must be pumped as necessary. A copy of the invoice for pumping the tanks is to be included with the annual report. All annual reports are to be reported within forty-five (45) days of the last day of the year (February 14th).

The above upper control limit (UCL) cannot be exceeded in any sample. Exceedance of this value is a violation of this permit and shall require notification under **Section K** of this permit. If the UCL is exceeded in a sample, additional monitoring wells may be required to determine whether groundwater has been impacted and to delineate the nature and extent of any contamination resulting from operation of the permitted facility.

J. Test Procedures

All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. All samples taken shall include a trip blank of distilled water for each

sampling date and a duplicate sample at least once per year. All required analyses shall be conducted in compliance with Wyoming Water Quality Rules and Regulations, Chapter 8, Section 7.

K. Records and Reports

The permittee shall furnish to the Administrator within a specified time any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit. The permittee shall retain copies of all records and reports required by this permit for a period of three (3) years following permanent well abandonment. After that time, those records shall be delivered to the Administrator for disposal or archive at his discretion. Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator within twenty-four (24) hours, and a written submission (via certified mail) shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written submission shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance. Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above. The permittee shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion, or abandonment of the well covered by this permit.

L. Permit Actions

This permit is authorized for a period of ten (10) years. If the permittee wishes to continue injection after the expiration date of this permit he shall apply to the Administrator and obtain a new permit. The application should be submitted at least 180 days before the expiration date of this permit. Under this permit, the Department may consider injection after the expiration date a violation of the permit.

It shall not be a defense for the permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to any of the following:

1. Violation of this permit; or
2. Obtaining a permit by misrepresentation of facts in the application.

This permit will be reviewed at least once every five (5) years, and may be reviewed more frequently. A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit was issued. A permit may

be modified in whole or part in order to apply more or less stringent standards; or prohibitions for toxic or other substances present in the permittees discharge as may be ordered by the Environmental Quality Council.

M. Abandonment

General Requirements:

1. The permittee shall notify the administrator at least thirty (30) days prior to abandonment of the facility.
2. An abandonment report, detailing the compliance with abandonment procedures outlined in the original application for coverage under this permit, or describing any deviations from the original plan, shall be submitted as soon as practicable after abandonment. The abandonment shall include reclamation of the well site.
3. Injection wells covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 16, Section 12.

N. Duties of the Permittee

The permittee shall give advance notice to the Administrator as soon as possible of any planned physical alteration or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alternation or addition. The permittee shall furnish the Administrator within a reasonable time any information which the Administrator may request to determine whether cause exists for modifying, revoking, or reissuing, or terminating this permit, or to determine compliance with this permit; and to furnish to the Administrator upon request, copies of records required to be kept by this permit. Any modification which may result in a violation of a permit condition shall be reported to the Administrator, and any modification that will result in a violation of any permit conditions shall be reported to the Administrator through the submission of a new or amended permit application. The permittee shall report all instances where he becomes aware that he failed to submit any relevant facts in the permit application, or where he submitted incorrect information in a permit application or in any report to the Administrator, and shall promptly submit such facts or information.

If any cultural materials are discovered during construction, work in the area should halt immediately. The Administrator and the Wyoming State Historic Preservation Office shall be contacted (777-7697) and the materials shall be evaluated by an archaeologist or historian meeting the Secretary of the Interior's Professional Qualification Standards (48 FR 22716, Sept. 1983).

O. Signatories Requirement

All reports filed in conjunction with this permit shall contain the following certification:

"I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or

persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

All reports required by this permit and other requested information shall be signed as follows:

For a corporation – by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship – by a general partner or the proprietor, respectively;

For a municipality, state, federal, or other public agency – by either a principal executive officer or ranking elected official; or

By a duly authorized representative for any of the above. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the prescribed principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
3. The written authorization is submitted to the Administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Administrator prior to or together with any reports or information, to be signed by the new authorized representative.

P. Noncompliance

The permittee shall comply with all conditions of the permit. Any permit noncompliance constitutes a violation of Wyoming Water Quality Rules and Regulations, Chapter 16 and is grounds for enforcement action, permit termination, revocation, or modification. Confirmed noncompliance resulting in an excursion shall be reported to the Administrator orally within twenty-four (24) hours, and a written submission shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written report shall contain the sections specified in Section K of this permit. Any permit noncompliance constitutes a violation of this permit.

The filing of any request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

Q. Permit Transfer

Any transfer of this permit shall be accomplished by the submission of the proper forms for permit transfer to the Administrator. Transfer of this permit must first be approved by the

Administrator and the Director. No transfer shall be approved unless the proposed permittee agrees to bring any and all noncompliance issues into compliance with this permit. The permittee is alone responsible for the operation of the facility covered by this permit. Sale of the facility and subsequent operation of this facility by another is a violation of this permit unless a transfer of this permit has first been accomplished.

R. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege. This permit does not authorize injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

S. Severability

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

- A. UIC Permit Number: **11-286**
-
- B. Facilities Covered: Painter Estates Homeowners Association
- C. Class of Facility: Class V (Wyoming Water Quality Rules and Regulations, Chapter 16)

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section)

- | | | | |
|---------------|-----|---------------|-----|
| A. Chapter 8 | Yes | D. Chapter 12 | No |
| B. Chapter 9 | No | E. Chapter 13 | No |
| C. Chapter 11 | Yes | F. Chapter 16 | Yes |

III. Basis for issuing permit (Indicate yes or no for each section).

- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

Yes

- B. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation).

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Wyoming Water Quality Rules and Regulations, Chapter 3, Section 17. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 17. (Indicate either applicable or not applicable. If not applicable delete all of section VI from the Statement of Basis).

Applicable. A groundwater review has been conducted to insure that no groundwater will be impacted by this system.

VI. Documentation of Statement of Basis.

- A. The archive file for this permit will include adequate documentation of all sections of this Statement of Basis.

VII. Applicant and Public Participation

- A. The applicant has been provided with a draft permit prior to the permit being issued.

- B. A Public Notice has been issued with a public notice period starting August 17, 2011 and ending on September 29, 2011 (30 day notice as required by Wyoming Water Quality Rules and Regulations, Chapter 16). This notice was published in the Cody Enterprise on or before the start of the public comment period.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Wyoming Water Quality Rules and Regulations, Chapter 16, Section 6. This review was performed by Charis Tuers, Environmental Engineer, completed on August 4, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis".



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

John Corra, Director

September 30, 2011

Painter Estates Homeowners Association
Attn: Mr. Doc Asay
P.O. Box 1314
Cody, WY 82414

RE: Painter Estates Homeowners Association
Final Permit **11-286**, Class V Septic System
Park County, Wyoming

Dear Ms. Asay:

Attached please find one copy of the Class V permit and corresponding reporting forms for the above referenced facility. This permit requires sampling on a semi-annual basis and reporting on an annual basis within 45 days of the end of each calendar year.

The permit application, draft permit, final permit, public notice, and report forms are available for review on the GEM website <https://gem.trihydro.com>. Additionally, you may report using the GEM database on-line, however, we still require you to mail the lab copies to us.

The underground injection control program was promulgated to prevent serious problems caused by direct discharges to the groundwater. Those problems included groundwater pollution leading to contamination in domestic water wells and serious health affects caused by exposures to toxic substances and water borne pathogens. Your cooperation with our program is sincerely appreciated.

If you have any questions please do not hesitate to contact me at (307) 777-8580 or by email at charis.tuers@wyo.gov

Sincerely,

Charis A. Tuers
Environmental Engineer
Underground Injection Control Program
Wyoming Department of Environmental Quality

CAT/rm/11-0899

Enclosures: Report Forms
Permit

cc: Kevin Frederick, WDEQ
John Passehl, WDEQ





Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

August 12, 2011

Ken Webber, President
Reach Foundation
P.O. Box 846
Riverton, WY 82501

RE: Sertoma Water and Sewer Lines, Permit Number: 11-287, SE 1/4, Section 28, T. 1 N., R. 4 E., Fremont County

Dear Mr. Webber:

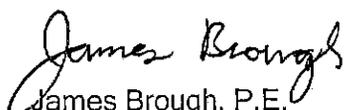
This project involves the installation of about 915 linear feet of 8-inch sewer line, 985 linear feet of 8-inch water line, 75 linear feet of 6-inch waterline and appurtenances to serve 16 duplex units and 2 single housing units. This application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct the facilities in accordance with the general permits and materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit which can be downloaded from the Wyoming Department of Environmental Quality webpage at:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

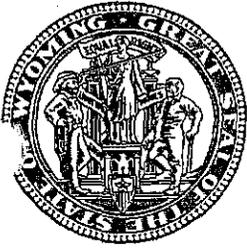
If you have any questions, please contact me at 307-335-6961.

Sincerely,

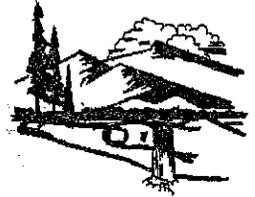

James Brough, P.E.
Northwest District Engineer
Water Quality Division

xc: Terry Zenk, P.E., Apex Surveying, Inc., P.O. Box 1751, Riverton, WY 82501
Dawn Willhelm, P.E., City of Riverton, 816 N. Federal Blvd., Riverton, WY 82501
IPS, Cheyenne





Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 28, 2011

Paul McKnight
PLM Boulder
1667 Gateway Circle
Grove City, Ohio 43123

RE: PLM Boulder - Sand Draw Industrial Park Subdivision, Lot 42 - Small Waste Water System - Permit Number 11-288, SW ¼ Section 5, T30N, R107W, Sublette County

Dear Mr. McKnight:

The above application for coverage under General Permit to Construct for a small wastewater treatment systems consisting of a 1000 gallon septic tank and a 16 chamber leach field to serve a commercial facility in accordance with Chapter 3, Section 7 and Chapter 11, Part D of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

xc: IPS, Cheyenne
Keith Raney, Sublette County Environmental Health, P.O. Box 722, Pinedale, WY 82941
Mark Eatinger, P.E., Rio Verde Engineering, P.O. Box 642, Pinedale, WY 82941
Eric Fairbanks, P.O. Box 996, Stanley, ND 58769



STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND INJECTION CONTROL PERMIT ISSUED UNDER
WYOMING WATER QUALITY RULES AND REGULATIONS
CHAPTER 13

CLASS I INJECTION WELL

(X) New
() Modified
County: Sweetwater

Permit Number: **11-289**
Previous Permits: none
UIC Facility Number: WYS-037-00133

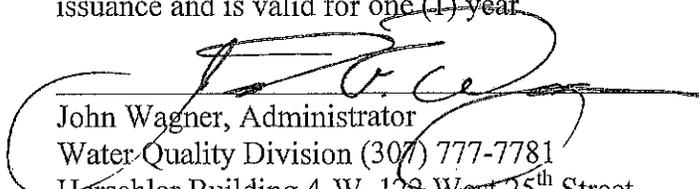
In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a)(iv), Laws 1973, Ch. 250, Section 1) and Wyoming Water Quality Rules and Regulations (WQRR) Chapter 13 (Ch13).

Applicant:

University of Wyoming (Carbon Management Institute)
Department 4302
1000 East University Avenue
Laramie, WY 82071
(307) 766-6810

The University of Wyoming, hereafter referred as the permittee, is authorized to construct and operate well RSU #1 for the purpose of completing a carbon dioxide injectivity test according to the procedures and conditions of application **11-289** and to the requirements and other conditions of this permit. Issuance of this permit does not obligate the Department of Environmental Quality to approve injection if doing so would endanger human health or the environment or if the well does not comply with all the terms and conditions of this permit (Ch13, Sec 8(e)).

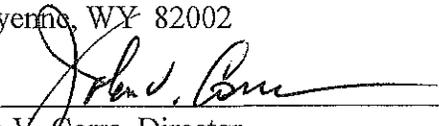
This is an individual permit for well RSU #1. This permit shall become effective on the date of issuance and is valid for one (1) year.



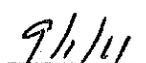
John Wagner, Administrator
Water Quality Division (307) 777-7781
Herschler Building 4-W, 122 West 25th Street
Cheyenne, WY 82002



Date



John V. Corra, Director
Department of Environmental Quality
Herschler Building 4-W, 122 West 25th Street
Cheyenne, WY 82002



Date

JP/rm/11-0804

Table of Contents

A.	Discharge Zones	2
B.	Well Locations and Areas of Review	3
C.	Groundwater Classification	3
D.	Authorized Operations.....	4
E.	Prohibitions.....	6
F.	Operation and Maintenance.....	7
G.	Entry and Inspection.....	7
H.	Environmental Monitoring Program for Groundwaters of the State.....	8
I.	Monitoring Requirements.....	8
J.	Sampling and Test Procedures	10
K.	Records and Reports	10
L.	Permit Conditions	12
M.	Mechanical Integrity.....	13
N.	Plugging and Abandonment	14
O.	Duties of the Permittee	15
P.	Financial Responsibility	16
Q.	Special Permit Conditions	16
R.	Signatories Requirement.....	16
S.	Noncompliance.....	17
T.	Permit Transfer	17
U.	Property Rights.....	17
V.	Severability	18

A. Discharge Zones

The disposal well RSU #1 is authorized to inject into the Weber and Madison formations within the intervals specified in **Table 1**:

Table 1. Discharge Zone(s)

Formation Names	Surface Elevation	Depth to Top of Discharge Zone	Depth to Bottom of Discharge Zone	Gross Discharge Zone Thickness	Well Depth
Weber	6,841 ft	11,155 ft	11,803 ft	648 ft	12,810 ft
Madison		12,225 ft	12,652 ft	427 ft	12,810 ft

Additional perforations in addition to those listed in the application may be installed within the intervals given above. Perforations above or below the intervals in **Table 1** require the prior written approval of the Administrator.

The confining zone immediately above the discharge zone consists of approximately 325 feet of shale and anhydrite in the Dinwoody formation.

B. Well Locations and Areas of Review

The well authorized by this permit is located as shown in **Table 2**:

Table 2. Well Location(s)

Well Name	Legal Description	Latitude*	Longitude*
RSU #1	S16; T20N; R101W	41.7126	-108.7948

*NAD83 (meters)

One section included in the Area of Review (Ch13, Sec 5(b)(iv)(E)) is listed in **Table 3**. Results of the area of review calculations (Ch13, Sec 5(b)(iv)) are shown in **Table 4** (12 days of injection). The area of review is based on the larger of: the radius of a pure waste cylinder, the radius of the cone of influence, or the minimum radius (Ch13, Sec 5(b)(iv)).

Table 3. Legal Description(s) of the Area(s) of Review

Well Name	Quarter-Quarters	Section	Township	Range
RSU #1	NE ¼, SE ¼	16	20N	101W

Table 4. Area of Review

	RSU #1
Radius of a Pure Waste Cylinder (ft)	660
Radius of the Cone of Influence (ft)	0*
Minimum Radius of Area of Review (ft)	1,320

There are no wells which penetrate the confining units of the proposed injection well within the Area of Review. There are no deep wells which are within the Areas of Review but do not penetrate the confining units. The Erickson Sandstone formation is the lowermost USDW.

C. Groundwater Classification

The groundwater in the Weber and Madison formations within 1,320 feet of the disposal well and with upper and lower boundaries defined by the discharge zone in **Table 1** are classified as Class VI according to WQRR, Chapter 8. This classification was made for the following reason(s):

- The Weber formation has Total Dissolved Solids in excess of 35,000 mg/L and the Madison formation has Total Dissolved Solids in excess of 50,000 mg/L.

The actual water quality of these formations will be documented prior to injection.

Precambrian igneous rocks exists below the Madison formation and effectively act as the lower confining unit.

D. Authorized Operations

Well Design – Injection shall be conducted through tubing which has been secured by a packer set within 500 feet of a seal assembly within the top of the 3.5 inch chrome liner and within a zone of good quality cement bond (Ch13, Sec 9(d)(xxv)). The tubing shall be isolated from the long string casing by an annulus filled with corrosion-inhibiting fluid.

Injection Rates - The well is allowed the maximum instantaneous injection rate shown in **Table 7** provided that the surface pressure limitations are not exceeded. The permittee shall set an alarm or kill switch to prevent injection above the permitted rate.

Permitted Injectate - Injectate is described as follows:

- 5,000 tonnes of supercritical (liquid) carbon dioxide (99.99% pure).

North American Industry Classification System (NAICS) – 32512

The expected concentrations for selected chemical species in the waste are listed in **Table 6**.

Table 6. Estimated Quality of Discharge Source*

Impurities	Concentration	Units
Carbon Dioxide	99.99	%
Methane	481	ppm*
Ethane	51	ppm
Propane	12.5	ppm
Isobutane	2.6	ppm
n-Butane	3.5	ppm
Isopentane	0.1	ppm
Benzene	0.338	ppm
Toluene	0.270	ppm
p-Xylene	0.011	ppm
m-Xylene	0.077	ppm
Hydrogen Sulfide	0.44	ppm
Carbonyl Sulfide	839	ppm
Oxygen	3.7	ppm
Nitrogen	14.3	ppm
Moisture	2.8	ppm

ppm -Parts per million. *Data obtained from Praxair Chicago Center

Permission to discharge other non-hazardous waste may be authorized through a minor permit modification (Ch13, Sec 8(d)(v)). Additional monitoring may be required for additional waste types.

Permitted Corrosion Inhibitors, Anti-Scalants, and Biocides – Corrosion inhibitors, anti-scalants, and biocides may be added to the waste stream with the prior written approval of the Administrator.

Injection Pressure - The injection pressure shall be limited to the fracture pressure of the receiver except as necessary during well stimulation approved by the Administrator (Ch13, Sec 9(d)(ii)). Temporary limits for the proposed well are listed in **Table 7**. The temporary limit applies until recalculation of the parameters in **Table 7** following completion of well testing. Exceeding the limiting surface injection pressure (LSIP) in **Table 7** or creating or propagating fractures within the receiver or confining zone once injection has commenced are violations of this permit and shall be reported pursuant to Section K of this permit. A kill switch shall be installed on the injection tubing and set to preclude violations of LSIP limits.

For the proposed well, the permittee shall conduct a step-rate injection test within one year of permit issuance to determine the actual fracture pressure of the receiver(s) (Ch13, Sec 9(d)(ii)) unless an equivalent or better well test analysis is accepted by the Administrator. Such tests shall be conducted using both surface and down hole pressure gauges or transducers. For a conclusive result, at least three of the injection rate steps below the fracture threshold will be colinear. Upon completion of the test, the permittee shall recalculate the maximum surface injection pressure (MSIP) and LSIP.

If the recalculated LSIP is greater than the temporary LSIP in **Table 7**, the permittee must obtain the approval of the Administrator before operating the well at a pressure above the temporary LSIP. If the recalculated LSIP is less than the temporary LSIP in **Table 7**, the permittee must cease injection and not restart discharge until the wellhead pressure can be maintained below the recalculated LSIP. The permittee may conduct additional step-rate injection tests at its discretion to refine estimates of MSIP as injection continues. Step-rate or equivalent test data, analyses, and interpretations shall be submitted to the Administrator within thirty days of completion of the test or with the next quarterly report, whichever is later.

Annulus Pressure – The annulus between the injection tubing and the long string casing shall be filled with a corrosion-inhibiting fluid and be monitored and maintained in a way that allows reliable leak detection. The annulus pressure shall be maintained within the limits set in **Table 7**. During periods of continuous injection, the annulus pressure should be reasonably constant but large variations in pressure are permissible during startup and shutdown. The permittee shall set alarms or use daily observations to detect increases or decreases in annulus pressure and shall cease injection and shut the well in if a pressure change indicates the possibility of a loss of mechanical integrity. Interpretations of pressure changes shall take into account annulus pressure changes due to variations in temperature of the injected and annulus fluid.

New Well Construction - Any well stimulation activities after the commencement of injection require prior approval by the Administrator. The packer at the bottom of the tubing shall be set within 500 feet of a seal assembly within the top of the 3.5 inch chrome liner and within a zone of good quality cement bond as shown by a cement bond log.

Table 7. Maximum and Limiting Surface Injection Pressures (MSIP, LSIP)

	RSU #1
Maximum Injection Rate (ft ³ /day)	23,400
Maximum Annulus Pressure (psig)	800
Minimum Annulus Pressure (psig)	200
Assumed Fracture Gradient, F_r (psi/ft)	0.68
Depth to Top of Perforations, D_p (ft)	11,155
Fracture Pressure, P_f (psig) = $F_r \cdot D_p$	7,585
Estimated BH Temperature (°F)	216
Estimated Mid-perforation Temperature (°F)	189
Estimated TDS of Formation (mg/L)	35,000-50,000
Estimated Maximum TDS of Injectate (mg/L)	N/A
Density of Injectate, ρ_j (g/cm ³)	1.00
Injectate Fluid Gradient (psi/ft)	N/A
$grad_j = \rho_j \cdot 12 \frac{in}{ft} \cdot 16.387 \frac{cm^3}{in^3} / 453.592 \frac{g}{lb}$	
$MSIP = (D_p \cdot F_r) - (D_p \cdot grad_j)$ (psig)	1,200
$LSIP = 0.9 \cdot MSIP$ (psig)	1,200

Injection into a well may not begin until:

1. Well construction is complete (Ch13, Sec 9(d)(xxix)); and
2. The permittee has submitted a well completion and testing report and the "Notification of Construction Completion of Injection Well" (available on the WQD - UIC Program web site - <http://deq.state.wy.us/wqd/groundwater/uicprogram/index.asp> for a newly constructed or modified well; and
3. The permittee has provided the Administrator with sufficient notice to allow for inspection of the well (Ch13, Sec 9(d)(xxiv)); and
4. Mechanical integrity of the well and cement bonding of the long string casing have been proven or demonstrated to the satisfaction of the Administrator; and
5. The permittee has demonstrated financial assurance (Ch13, Sec 17(a));
6. An analysis of the carbon dioxide to be used for the injectivity test from each storage tank has been provided to the Administrator, and;
7. The permittee has received written approval from the Administrator to begin injection.
8. If the total dissolved solids concentration of any portion of the proposed discharge zone is less than 10,000 mg/L, as determined by baseline groundwater quality testing, injection will not be allowed until authorized in writing by the Administrator.

E. Prohibitions

This permit does not allow for the injection of any hazardous waste as defined in 40 CFR 261.3 or in Wyoming Solid Waste Management Rules and Regulations, Chapter 2. Injection of

any substance defined as a hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

No person shall conduct any authorized injection activity in a manner that results in a violation of any permit condition or representations made in the application (Ch13, Sec 18(b)(i)).

No person shall conduct any authorized injection activity in a manner that results in a movement of fluids out of the receiver (Ch13, Sec 18(b)(ii)).

No zone or interval other than the discharge zone shall be used as a receiver for the discharge (Ch13, Sec 18(b)(ii)(A)).

No uncased hole may be used as a conduit for the discharge, excepting that portion of a hole in the discharge zone (Ch13, Sec 18(b)(ii)(B)).

No annular space between the wall of the hole and casing in the hole may be used as a conduit for discharge, excepting in that portion of a hole in the discharge zone (Ch13, Sec 18(b)(ii)(C)). The annular space may receive fluids used in cementing casing during the cementing process.

No person shall construct, install, modify, or improve an authorized injection facility except in compliance with this permit (Ch13, Sec 18(b)(iii)).

F. Operation and Maintenance

Each injection well shall be constructed, operated, and maintained to prevent movement of fluid from the well into any USDW (Ch13, Sec 11(a)).

The permittee shall operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes mechanical integrity of the well, effective performance, adequate funding, operator staffing and training, and laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit (Ch13, Sec 9(d)(vi)).

The permittee is required to operate in accordance with statements, representations, and procedures presented in the complete permit application and supporting documents as accepted and approved by the Administrator. If such procedures conflict with those in this permit, the conditions in this permit shall take precedence (Ch13, Sec 18(b)(i)).

Measuring and recording devices shall be tested and calibrated at a frequency sufficient to ensure accurate and precise measurements. A record of the date of the most recent calibration or maintenance shall be retained at the well site.

G. Entry and Inspection

The permittee shall allow the Administrator, or an authorized representative of the Administrator (upon presentation of credentials and during normal working hours) to enter the premises where a regulated facility is located, or where records are kept under the conditions of this permit; to inspect and photograph the discharge and related facilities and equipment; to review and copy reports and records required by this permit; to collect fluid samples for analysis; to measure and

record pressures and water levels; to observe and record data from monitoring equipment; and to perform any other function authorized by law or regulation (Ch13, Sec 9(d)(xii)).

Inspectors shall not be required by the permittee to sign any waiver of liability.

H. Environmental Monitoring Program for Groundwaters of the State

The permittee shall furnish the Administrator any information necessary to establish a monitoring program if requested to do so (Ch13, Sec 9(d)(xiii)).

No groundwater monitoring program under this permit, other than that described in Section I, is required because of the reduction in risk of pollution due to the depth and confinement of the receiver (Ch13, Sec 13(a)(ii)).

I. Monitoring Requirements

1. The permittee shall retain records of all monitoring information (Ch13, Sec 9(d)(xiv)) including all calibration and maintenance records and all original chart recordings for a period of three years after closure of the facility (Ch13, Sec 15(g)), at which time the permittee shall notify the Administrator and either deliver the records to WQD or discard them as directed by the Administrator.
2. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The name(s) of individual(s) who performed the sampling or measurements;
 - c. The types of sample containers used, methods of preservation, and holding times;
 - d. The date(s) analyses were performed;
 - e. The name(s) of individual(s) who performed the analyses;
 - f. The analytical techniques or methods used;
 - g. The results and precision of such analyses.
3. For any new well or newly perforated zone within an existing well, the permittee shall collect a baseline groundwater quality sample from each aquifer or formation within the new discharge zone(s) (Ch13, Sec 13(a)) and submit results for all the analytes and parameters in WDEQ-WQRR Chapter 8, Table 1 and for the entire suite of volatile organic compounds listed for EPA Method 624 or other method acceptable to the Administrator prior to injection. The methods and procedures for sample collection and analysis must be approved by the Water Quality Division prior to sampling.
4. The permittee shall collect at least two measurements of hydraulic head (or fluid density and pressure) within the sandstone of the Weber formation and the limestone of the Madison formation.
5. Operational Monitoring (Ch13, Sec 13(b)(ii)):

Injection Pressure - The permittee shall measure the injection pressure continuously and record the readings on a strip chart recorder, a circular chart recorder, or electronically (Ch13, Sec 13(i)).

Injection Rate and Volume - The permittee shall measure the injection rate and volume continuously and record both on a strip chart recorder, circular chart recorder, or electronically (Ch13, Sec 13(i)).

Annulus Pressure - The permittee shall measure the pressure of the casing - tubing annulus continuously and record the pressures on a strip chart recorder, a circular chart recorder, or electronically (Ch13, Sec 13(i)).

Discharge Zone Reservoir Pressure, Reservoir Boundaries or Anomalies, Permeability, and Skin Factor - The Administrator may require the permittee to shut-in the completed well covered by this permit one-time for a period of time long enough to observe a valid pressure fall-off curve (Ch13, Sec 13(e)). For the first test, the minimum duration of injection and fall-off shall be calculated according to the equations on page A-4 of the "UIC Pressure Falloff Testing Guideline" (USEPA Region 6, August 2002), or the equivalent equations in subsequent editions. Tests shall be analyzed by the permittee using commonly accepted methods to obtain transmissivity, permeability, and skin factor and to identify reservoir boundaries (including flow in fractures) and other anomalies such as partial penetration or layering. The test method chosen should be justified by a review of relevant assumptions and actual well and aquifer conditions. Along with the analysis and interpretation, the permittee shall submit plots of injection rate, pressure, and the pressure derivative versus time on appropriate graphs. If the method used differs from previous methods used for the same well, the analyst should discuss the comparability of the results.

Digital data, results, analyses, and interpretations for the fall-off test shall be submitted to the Administrator at the address in paragraph K.6 within one month or with the next quarterly report after the test is done, whichever is later (Ch13, Sec 15(f)). These data shall include pressures starting with the introduction of the pressure-measuring device into the well (or for at least one hour prior to test start for a permanently installed down hole device); and injection rates starting at least twice the fall-off period before the start of the fall-off test.

Radius of Influence - The results of each pressure fall-off or equivalent test acceptable to the Administrator shall be used to update the radius of influence calculation for each discharge zone (**Table 1**). The permittee shall provide a map showing the updated radius of influence and all wells which penetrate the confining zone within the old and new radii of influence.

If the updated radius of influence encompasses wells not previously identified as within the area of review, construction and plugging and abandonment records for those wells shall be submitted to the Administrator.

Radius of influence calculations, figures, and interpretations shall be submitted to the Administrator at the address in paragraph K.6 within thirty (30) days of the test or with the next quarterly report after the test is done, whichever is later (Ch13, Sec 15(f)).

Physical and Chemical Properties of the Injectate - The permittee shall measure the quality of the injectate prior to injection (Ch13, Sec 15(c)(v)). The samples must be representative of the waste as it enters the disposal well and include any anti-scalants, biocides, or other additives. **Table 6** lists the analytes and parameters to be determined prior to injection.

Limiting Concentrations of Injectate - Upper control limits for this permit are listed in **Table 8**. Exceedances of these values are a violation of this permit and require notification under Section K of this permit.

Table 8. Control Limits for Injected Waste

Analyte or Parameter	Upper Control Limit
pH	> 2.00 pH < 11.00 s.u.

J. Sampling and Test Procedures

The following units are to be used where applicable: pounds (mass) per square inch for pressure with gage or absolute pressure noted (psig or psia); standard oil field barrels (bbl, equivalent to 42 gallons) for fluid volume; standard oil field barrels per day (bbl/day) for fluid flow rates; milligrams per liter (mg/L) for analyte concentrations other than pH in standard logarithmic units (s.u.) or radium, radioactive strontium isotopes, and gross alpha particle radioactivity in picoCuries per liter (pCi/L). Carbon dioxide injection shall be reported in ft³/day and tonnes/day. The permittee may report equivalent quantities in other units in addition to those above.

Procedures and methods for sample collection and analyses shall be implemented by the permittee to ensure that the samples are representative of the groundwater, water, or wastes being sampled (Ch13, Sec 14(a)).

A trip blank of distilled water shall be collected for each sampling date and a duplicate sample shall be collected at least once per year. Blank and duplicate results and chain-of-custody forms shall be included in the quarterly reports.

Procedures for mechanical integrity tests are described in Section M.

Procedures for pressure fall-off tests are described under Operational Monitoring in Section I.

Procedures for step-rate injection tests are described under Injection Pressure in Section D.

K. Records and Reports

1. Record Retention - The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit until the permit expires. As described in Section I.2, monitoring records shall be retained for three (3) years after well closure (Ch13, Sec 15(g)).
2. Electronic Data Deliverable (EDD) Reporting - The permittee shall use EDD reporting if required by the Administrator.
3. Compliance Schedule Reports - If a compliance schedule is required by the Administrator, reports of compliance or noncompliance with, or any progress reports on,

interim and final requirements contained in any such schedule shall be submitted no later than thirty days following each schedule date (Ch13, Sec 9(d)(xx)).

4. Noncompliance Event Reports – See Section S.
5. Other Noncompliance Reports - The permittee shall report all instances of noncompliance not reported otherwise and submit the information listed for the written report in Section S with the next quarterly report (Ch13, Sec 9(d)(xxii)).
6. Reports - Reports shall be submitted to the Administrator no later than 30 days after the end of each calendar quarter ((Ch13, Sec 15(a) and 15(c)). The mailing address is: UIC Program Supervisor, DEQ – Water Quality Division, Herschler Building – 4W, 122 W. 25th St., Cheyenne, WY 82002. The quarterly results shall also be submitted online at <https://gem.trihydro.com> within 45 days of the end of quarter. The written quarterly report for each well shall include the following information:
 - a. The minimum, average, and maximum instantaneous injection rates for each month of the quarter. The page showing the maximum injection rates shall also show the maximum permitted injection rate for comparison.
 - b. The minimum, average, and maximum daily injection pressures for each month of the quarter (Ch13, Sec 15(c)(i)). The table or graph showing the maximum injection pressures shall also show the maximum permitted injection pressure for comparison and the pressures at which any alarms or kill switches are activated.
 - c. The total injection volume in barrels for each month of the quarter, the total for the quarter, and the total cumulative volume of waste injected to date (Ch13, Sec 15(c)(iv)).
 - d. The maximum and minimum annulus pressures for each month of the quarter. The table or graph showing the annulus pressures shall also show the pressures at which any alarms or kill switches are activated.
 - e. Any analytical results required by Section I of this permit (Ch13, Sec 15(c)(v)). Sample collection dates should allow ample time to receive analytical results prior to reporting deadlines.
 - f. Copies of customer water quality reports and a comparison with the permittee's quarterly samples as described under "Physical and Chemical Properties of the Injectate" in Section I.
 - f. Any permit exceedances within the quarter.
 - g. Any events that triggered alarms or shutdowns and the responses taken during the quarter shall be fully described (Ch13, Sec 15(c)(iii)).
 - h. Any well tests conducted more than thirty days before the end of the quarter (e.g., mechanical integrity, pressure fall-off, or step-rate injection) (Ch13, Sec 15(f)) and reports of well workovers (Ch13, Sec (c)(vi)). See also item K.8.

7. Annual Reports - Annual reports shall be submitted to the Administrator at the same address as the quarterly reports. They are due no later than thirty days after the end of each calendar year (Ch13, Sec 15((c)). The annual report for each well shall include the following information in addition to that required for the quarterly report:
 - a. A graphical representation of the injection pressures and volumes for the previous five (5) year's operation and a digital file (e.g., .csv, .txt., .xls, .xlsx) containing these data. The graph shall have calendar dates as the abscissa and pressure and volume as the ordinates.
 - b. Graphical representations of the quality of the injected waste over time and a digital file (e.g., .csv, .txt., .xls, .xlsx) containing these data. The graphs shall show the injectate quality for the previous five year's operation and shall be prepared on scales appropriate to the variation observed.
8. Well Tests – Reports of well tests conducted less than thirty days before the end of a calendar quarter shall be submitted within thirty (30) days of test completion (Ch13, Sec 15(f)).
9. Reports for Aborted Operations - A comprehensive report for any aborted or curtailed operation, which results in the complete termination of discharge or associated activity, shall be submitted to the Administrator within thirty (30) days of termination in lieu of an annual report (Ch13, Sec 15(d)).
10. Reports of Plugging and Abandonment – A report of plugging and abandonment (Section N) shall be submitted as soon as practicable after a well is plugged (Ch13, Sec 9(d)(xxvii)).
11. Well Completion Report – A report of well construction, completion, and testing and “Notification of Construction Completion of Injection Well” shall be submitted prior to injection into a new or modified well (see New Well Construction in Section D).
12. Step-rate Injection Test Report - A step-rate injection or equivalent test acceptable to the Administrator is required within one year of permit issuance (Ch13, Sec9(d)(ii)) or at the time of well completion and prior to injection.

L. Permit Conditions

This permit is issued for a period of one (1) year. If the permittee wishes to continue injection after the expiration date of this permit, he shall apply to the Administrator at least four months prior to the expiration date of this permit (Ch13, Sec 9(d)(iii)).

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit (Ch13, Sec 9(d)(iv)).

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation.

The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, or termination, or the notification of planned changes or anticipated noncompliance shall not stay any condition of this permit (Ch13, Sec 9(d)(ix)).

After notice and opportunity for a hearing, the Administrator may modify or revoke a permit, in whole or in part, during its term for cause. Causes include, but are not limited to, the following:

1. Noncompliance with terms or conditions of this permit (Ch13, Sec 8(e)(i));
2. Failure in the application or during the issuance process to disclose fully all relevant facts, or misrepresenting any relevant facts at any time (Ch13, Sec 8(e)(ii)); or
3. Failure of the casing, cement, or the confining layer; or
4. A determination that the activity endangers human health or the environment and can only be regulated to acceptable levels by a permit modification or termination (Ch13, Sec 8(e)(iii)).

Permits will be automatically terminated after closure and release of financial responsibility by the Administrator (Ch13, Sec 8(i)).

This permit will be reviewed by WQD at least once every five (5) years, and may be reviewed more frequently (Ch13, Sec 9(b)). Permits that do not satisfy the review criteria are subject to modification, revocation and reissuance, or termination (Ch13, Sec 9(c)).

The conditions in this permit supersede any application content (Ch13, Sec 18(b)(i)).

M. Mechanical Integrity

Mechanical integrity shall be maintained continuously and tested at intervals of no longer than five years. The test used to determine mechanical integrity shall be a two part test approved by the Administrator (Ch13, Sec 9(d)(vii)). The two parts shall be conducted no more than three months apart unless prior approval is obtained from the Administrator.

Part I of the mechanical integrity test shall demonstrate the absence of leaks through the packer, tubing, casing, and wellhead (Ch13, Sec 9(d)(vii)(A)). Prior to operational injection and at least once every five (5) years the casing-tubing annulus of each well shall be pressure tested to 0.25 psi/foot times the true vertical depth to the top of the packer and the inner casing for each well. A pressure change of less than 10% after thirty (30) minutes shall be considered successful.

Part II of the mechanical integrity test shall demonstrate the absence of fluid movement behind the casing (Ch13, Sec 9(d)(vii)(B)) above the topmost perforation. Prior to the commencement of waste injection and at intervals of no longer than five years thereafter, and more frequently if required by the Administrator, each well shall be logged using a radioactive tracer survey (or oxygen activation log) and a temperature survey. The static temperature log shall start more than two hours, and preferably more than twenty-four (24) hours for an active well, after injection has ceased. An alternative method may be approved by the Administrator.

Other types of logs may be substituted for Part II of the mechanical integrity test if they satisfy Chapter 13, Sec 9. (d) (vii) and are approved by the Administrator.

WQD shall be notified a minimum of 30 days prior to a mechanical integrity test.

Data, results, analyses, and interpretations for the tests shall be submitted to the Administrator at the address in paragraph K.6 within thirty days or with the next quarterly report after the test is done, whichever is later (Ch13, Sec 15(f)).

In the case of a failed mechanical integrity test in a well that has begun injection, the well shall be immediately shut-in (Ch13, Sec 9(d)(viii)). The Administrator shall be notified by telephone at (307) 777-7781 within twenty-four (24) hours of the test and a written report shall be submitted within seven (7) days. Injection shall not resume until the well has been repaired, a complete mechanical integrity test has been passed, and written permission to resume operation has been obtained from the Administrator.

If at any time injection occurs in any zone not within the discharge zone, a permit violation has occurred. The operator shall prepare an estimate of the volume and quality of all wastewaters which were injected outside of the discharge zone. In the case where any aquifer meeting the standards for Class I through IVA under Wyoming Water Quality Rules and Regulations, Chapter 8, has been contaminated due to out of zone injection, the operator shall prepare and implement a plan to recover these solutions. Injection shall not resume until the well has been repaired, a complete mechanical integrity test has been passed, and written permission to resume operation has been obtained from the Administrator.

N. Plugging and Abandonment

Any well under this permit shall be plugged and abandoned within six (6) months after:

- Permit expiration (unless application for a new permit has been made and has not been denied by the Administrator) or termination;
- Final cessation of injection activities; or
- The permittee has removed equipment required for the proper operation and monitoring of the well (except for temporary removal during well maintenance).

The permittee shall notify the Administrator of plans to convert or abandon a well (Ch13, Sec 9(d)(xxvi)) at least ninety (90) days prior to the start of any conversion or abandonment activity. The permittee shall follow the plugging and abandonment procedure described in the application or subsequently prescribed by the Administrator. The procedure shall include well plugging, abandonment, surface reclamation and seeding of the well site, closure of related surge ponds, and removal or purging and plugging of any underground piping. In no case shall the procedure be less stringent than that required by USEPA for Class I non-hazardous waste disposal wells at the time of abandonment (e.g., Title 40 Code of Federal Regulations Part 146.10)

As soon as practicable after plugging and abandonment of any well covered by this permit, the permittee shall submit a plugging and abandonment report describing all activities and detailing any deviations from the original plan (Ch13, Sec 9(d)(xxvii)).

O. Duties of the Permittee

Duty to Comply - The permittee shall comply with all conditions of this permit (Ch13, Sec 9(d)(i)), all rules and regulations of the Department of Environmental Quality, and all applicable state and federal laws. Nothing in this permit relieves the permittee of any duties under applicable regulations.

Duty to Mitigate - The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit (Ch13, Sec 9(d)(v)).

Duty to Give Notice of Changes - The permittee shall give advance notice to the Administrator as soon as possible of any planned physical alteration or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alteration or addition (Ch13, Sec 9(d)(xvi)).

Duty to Warn of Noncompliance - The permittee shall give advance notice to the Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements (Ch13, Sec 9(d)(xvii)).

Duty to Provide Information for Permit Modification - The permittee shall furnish the Administrator within a reasonable time, any information which the Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. (Ch13, Sec 9(d)(xi)).

Duty to Provide Records - The permittee shall furnish the Administrator, upon request, copies of records required to be kept by this permit (Ch13, Sec 9(d)(xi)).

Duty to Amend Permit - Any modification that will result in a violation of any permit condition shall be reported to the Administrator through the submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued (Ch13, Sec 9(d)(xvii)).

Duty to Correct - The permittee shall report all instances where it becomes aware that it failed to submit any relevant facts in the permit application, or where it submitted incorrect information in a permit application or in any report to the Administrator, and shall promptly submit such facts or information (Ch13, Sec 9(d)(xxiii)).

Duty to Monitor - Monitoring results shall be obtained and reported at the intervals specified elsewhere in this permit (Ch13, Sec 9(d)(xix)).

Duty to Test - Test results shall be obtained and reported at the intervals specified elsewhere in this permit.

Duty to Provide Current Contact Information - The permittee shall report any changes to physical or mailing address, phone, or email, and any changes of the personnel responsible for complying with this permit to WQD within one month of the change.

P. Financial Responsibility

The permittee is required to maintain financial assurance, in a form approved by the Administrator, to close, plug, and abandon the injection well operation and to reclaim the surface facilities in a manner approved by the Administrator (Ch13, Sec 17(a)).

The obligation to maintain financial responsibility survives the termination of the permit or the cessation of injection (Ch13, Sec 17(c)).

If the institution issuing the financial instrument files for bankruptcy or loses its authority to issue financial instruments, the permittee shall notify the Administrator within two weeks and obtain other financial assurance within two months. If the permittee is named as debtor in any voluntary or involuntary bankruptcy proceeding, it must notify the Administrator within two weeks.

The permittee has provided an estimate of \$139,500 to plug and abandon the well as identified in the application. Prior to injection into the well, a financial instrument will need to be secured and approved by the Department. Once approved, the financial instrument(s) shall be maintained for as long as the wells are covered by this permit. The financial assurance amount(s) will be adjusted annually to keep pace with inflation,

Q. Special Permit Conditions

In addition to the conditions required of all permits, the Administrator may establish specific conditions so as to prevent the migration of fluids into USDWs (Ch13, Sec 9(e)). The following specific conditions are established for this permit:

- None.

R. Signatories Requirement

All reports filed in conjunction with this permit shall contain the following certification (Ch13, Sec 9(d)(xv)):

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.” (Ch13, Sec 5(c)(xv))

All reports required by this permit and other requested information shall be signed by a responsible officer as described in WQRR Chapter 13, Section 5(b)(xiv));

or

By a duly authorized representative. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the prescribed principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and

3. The written authorization is submitted to the Administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Administrator prior to, or together with, any reports or information to be signed by the new authorized representative.

S. Noncompliance

Any permit noncompliance constitutes a violation of WQRR Chapter 13 and is grounds for enforcement action, permit termination, revocation, or modification (Ch13, Sec 9(d)(i)). Confirmed noncompliance resulting in a migration of injected fluid outside the discharge zone shall be reported to the Administrator at (307) 777-7781 within twenty-four (24) hours from the time the permittee becomes aware of the circumstances and a written report shall be provided within five (5) days (Ch13, Sec 9(d)(xxi)).

The oral report shall include:

- a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a useable groundwater of the state.
- b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between useable groundwaters of the state.

The written report shall include:

- a. A description of the noncompliance and its cause;
- b. The period of noncompliance, including exact dates and times;
- c. If the noncompliance has not been corrected, the anticipated time it is expected to continue; and
- d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance (Ch13, Sec 9(d)(xxi)).

T. Permit Transfer

Any transfer of this permit shall be accomplished by the submission of the proper forms for permit transfer to the Administrator. Transfer of this permit must first be approved by the Administrator and no transfer shall be approved unless the proposed permittee agrees to correct any and all noncompliance issues (Ch13, Sec 9(d)(xviii) and Ch13, Sec 8(k)).

The permittee is alone responsible for the operation of the facility covered by this permit. Operation of this facility by another entity is a violation of this permit unless a transfer of this permit has first been accomplished.

U. Property Rights

This permit does not convey any property rights or any exclusive privileges. This permit does not authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations (Ch13, Sec 9(d)(x)).

The state of Wyoming recently passed Wyoming statute §34-1-152 and amended Wyoming statute §34-1-202 regarding the ownership of pore space within the subsurface. WDEQ recommends that permittees consider how these laws may apply to their injection of material into the subsurface.

V. Severability

The provisions of this permit are severable, and if any provision of the permit, or the application of 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.



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

John Corra, Director

September 1, 2011

CERTIFIED

Mr. Ronald C. Surdam
University of Wyoming (Carbon Management Institute)
Dept 4302
1000 E. University Avenue
Laramie, WY 82071

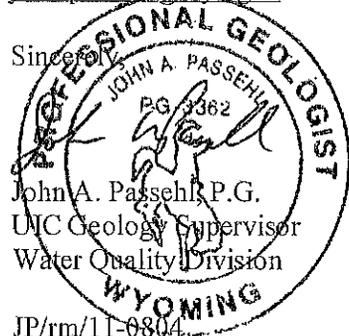
RE: University of Wyoming – RSU #1
Final Permit 11-289, Class I Non-hazardous
Sweetwater County, Wyoming

Dear Mr. Surdam:

Attached please find one copy of the Class I permit. This permit requires the following reports as follows: one-time pressure fall-off test for each formation, one-time step rate test for each formation, notification of construction completion of injection well, and a Part I and Part II mechanical integrity test prior to injection and once every five (5) years. The corresponding report forms can be filled out using our on-line webform (*Monitor Reports* link) at the following site: <https://gem.trihydro.com>

The underground injection control program was promulgated to prevent serious problems caused by direct discharges to the groundwater. Those problems included groundwater pollution leading to contamination in domestic water wells and serious health affects caused by exposures to toxic substances and water borne pathogens. Your cooperation with our program is sincerely appreciated.

If you have any questions please do not hesitate to contact me at (307) 777-5623 or by email at john.passehl@wyo.gov

Sincerely,

 John A. Passehl, P.G.
 UIC Geology Supervisor
 Water Quality Division
 JP/rm/11-0804

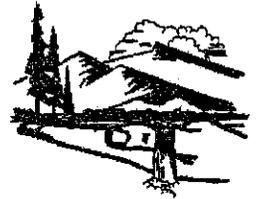
Enclosures: Permit
Monitor Reports

cc: Ms. Lynne Boomgaarden, Belcher & Boomgaarden, 237 Storey Boulevard, Suite 110, Cheyenne, WY 82009
Kevin Frederick, WDEQ





Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

August 1, 2011

Phillip Smith
Town of Big Piney
P.O. Box 70
Big Piney, WY 83113

RE: Big Piney - Milleg Looping Water Line Project - Permit Number 11-290, Section 36, T29N, R112W, Sublette County

Dear Mr. Smith:

The above application for coverage under General Permit to Construct the extension of a public water supply distribution system consisting of about 3700 linear feet (LF) of 10-inch, 20 LF of 8-inch, 420 LF of 6-inch and 60 LF of 4-inch PVC water main in accordance with Chapter 3, Section 7, Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne

D. Shay Smith, P.E., Forsgren Associates, Inc., 849 Front Street, Suite 201, Evanston, WY 82930



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 11-291

Alpine Village Airpark Subdivision Reserve #1 Water System
Subdivision Water System

This permit hereby authorizes the applicant:

William J. Wiemann
Alpine Village Airpark Subdivision
P.O. Box 3309
Alpine, WY 83128

to construct a water supply well, well house and about 750 linear feet of 4-inch PVC water main to serve a 9 lot subdivision according to the procedures and conditions of the application number 11-291. The facility is located at Section 19, T37N, R118W in the county of Lincoln, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by July 29, 2013.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

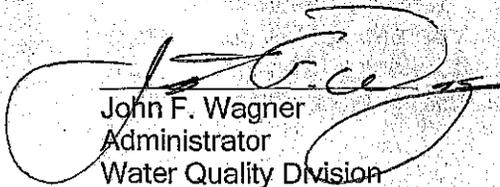
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

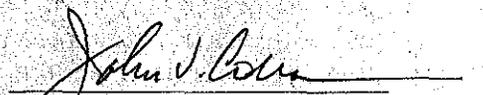
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadow View Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
- a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

8-1-11
Date of Issuance

MDB/rm/11-0704

STATEMENT OF BASIS

1. Permit Number: 11-291
2. Application reviewed for compliance with the following regulations:

Chapters 3 and 12 of the Wyoming Water Quality Rules and Regulations. The proposed Subdivision Water Supply complies with the Water and Wastewater Section, Policy 14.4 - The definition of a Public Water Supply and a Subdivision Water Supply and applicable design standards.

3. If a Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.

Not Required.

4. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

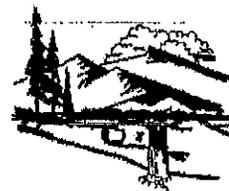
The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., mark.baron@state.wy.us, Southwest District Engineer and completed on July 29, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

cc: Ryan J. Erickson, P.E., Sunrise Engineering, Inc., P.O. Box 609, Afton, WY 83110



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

August 25, 2011

Erik Petersen, Owner
Petersen Subdivision
883 Johnson Ave.
Powell, WY 82435

RE: Petersen No. 1 Water Supply.
DEQ Permit #11-293,
Park County, Latitude 44.7472°, Longitude 108.7444°

Dear Mr. Petersen,

This project consists of the completion of the second phase of the Peterson number one subdivision. Work to be done consists of the installation of the 8 inch treated water line to tie into the existing main, and the tying in of several service laterals.

The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7, and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact Hannes Stueckler at 307-335-6964 or James Brough at 307-335-6961.

Sincerely,

Hannes E. Stueckler, P.E.
Assistant Northwest District Engineer
Water Quality Division

xc: PDF to Cheyenne
Jack L. Morey, Jr., P.E., Melneke Engineering and Land Surveying, LLC, 1527 Rumsey Ave., Cody, WY
82414

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • <http://deq.state.wy.us>

ABANDONED MINES
(307) 332-5085
FAX 332-7726

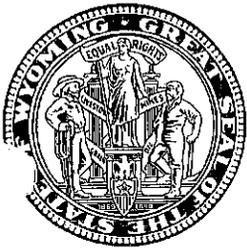
AIR QUALITY
(307) 332-6755
FAX 332-7726

LAND QUALITY
(307) 332-3047
FAX 332-7726

SOLID & HAZARDOUS WASTE
(307) 332-6924
FAX 332-7726

WATER QUALITY
(307) 332-3144
FAX 332-7726





Department of Environmental Quality

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Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 2, 2011

Town of Saratoga
Attn: Chuck Bartlett, Town Engineer
PO Box 486
Saratoga, WY 82331

RE: Saratoga 2011 Water & Sewer Improvements, Application No. **11-294**
Location: SE $\frac{1}{4}$ Sec.11 & SW $\frac{1}{4}$ Sec.12, T12N, R84W, Carbon County

Dear Mr. Bartlett:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems consisting of assorted locations of water main and valve replacements and additions scattered throughout Town and Existing Sewage Collection Systems consisting of an auger bore under Wyoming HWY 130 for a 24 inch steel casing to house an 8 inch sanitary sewer main in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permits, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. Additionally, the following project specific conditions also apply:

1. Additions to Wyoming Public Works Standard Specifications for Waterline Construction:
 - a. Section 2665 E.6 - Water tight plugs shall be maintained in all pipe openings in a trench any time pipe laying is not in progress or the trench is unattended.

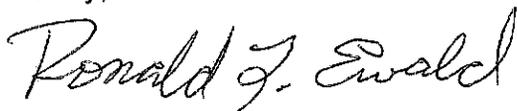


- b. Section 2675 D - Flushing shall achieve minimum velocities of at least 5 feet per second for pipelines 12 inches in diameter or less. Flushing shall be through flush valves and a discharge pipe to the surface. Fire hydrants shall not be flushed until after the water main or distribution line is flushed.
- c. Water mains greater than 12 inches in diameter shall be 100% remote video inspected after completion before first charging with water. If objects greater than 2" in diameter are found, they shall be mechanically removed before water is introduced. If flushing velocities greater than 5 feet per second cannot be achieved, the lines shall be 100% remote video inspected after flushing. Any remaining debris must be removed before the line can be disinfected or placed into service.

The approval granted under this Notification Of Coverage and the General Permit shall expire on September 2, 2013. Please reference Application Number 11-294 in any future correspondence.

If you have any questions, please contact me at either ron.ewald@wyo.gov or (307) 777-6183.

Sincerely,



Ronald L. Ewald
Assistant Southeast District Engineer
Water Quality Division

RLE/rm/11-0811

Enclosures: GENERAL PERMIT - Extensions/Modifications of Existing Public Water
Supply Distribution Systems
GENERAL PERMIT - Extensions/Modifications of Existing Sewage
Collection Systems
Certificate of Completion form

cc: IPS, Cheyenne
Craig Kopasz, PMPC Civil Engineers, PO Box 370, Saratoga, WY 82331

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

~~PERMIT NO. 11-295~~

LANCE CREEK TEST WELL (STATE NO. 1)
PWS WY5600109

This permit hereby authorizes the applicant:

Wyoming Water Development Commission
6920 Yellowtail Road
Cheyenne, WY, 82002

to construct, install or modify one Municipal Test Well for Conversion to one Municipal Water Supply Well according to the procedures and conditions of the application number 11-295. The facility is located in SW ¼ NW ¼; Section 1; T34N R65W; Niobrara County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed August 25, 2013.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

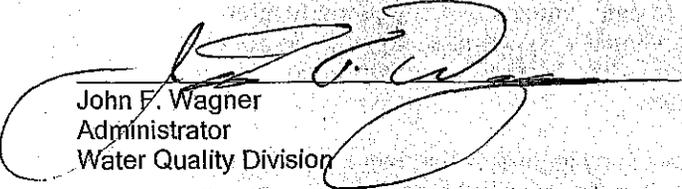
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

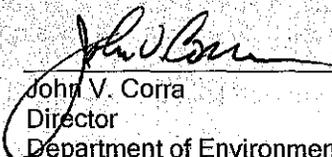
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1. The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7075, FAX 307-777-7610, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
2. Separate permits to construct will be required for the improvements necessary to the well to supply water to a public water system.
3. The casing must extend at least 18 inches above the ground surface.
4. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
 - e. As a part of the certificate of completion, the Engineer must certify that all Test Wells have been plugged and abandoned as required by Chapter 11, WQD Rules and Regulations.
5. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

Date of Issuance 8-29-11

RRC/rm/11-0776

STATEMENT OF BASIS

1. Permit Number: 11-295

2. This application was reviewed for compliance with the applicable regulations ;

Chapters 3, 12

3. Does the permit comply with all applicable regulations identified above?

Yes

4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.

Public water supplies are exempted from review by Chapter 3, Section 17.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Richard Cripe, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on August 26, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

~~PERMIT NO. 11-296~~

LANCE CREEK TEST WELL (STATE NO. 2)
PWS WY5600109

This permit hereby authorizes the applicant:

Wyoming Water Development Commission
6920 Yellowtail Road
Cheyenne, WY, 82002

to construct, install or modify one Municipal Test Well for Conversion to one Municipal Water Supply Well according to the procedures and conditions of the application number 11-296. The facility is located in NW ¼ NW ¼; Section 1; T34N R65W; Niobrara County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed August 25, 2013.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

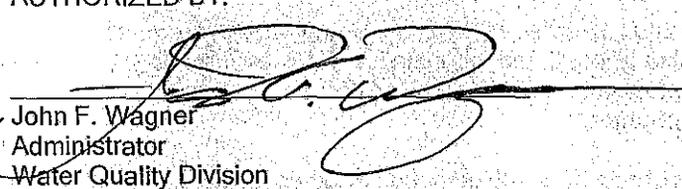
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

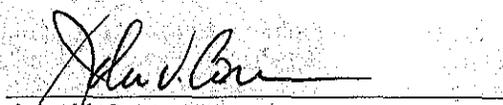
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1. The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7075, FAX 307-777-7610, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
2. Separate permits to construct will be required for the improvements necessary to the well to supply water to a public water system.
3. The casing must extend at least 18 inches above the ground surface.
4. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
 - e. As a part of the certificate of completion, the Engineer must certify that all Test Wells have been plugged and abandoned as required by Chapter 11, WQD Rules and Regulations.
5. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

Date of Issuance 8-29-11

RRC/rm/11-0777

STATEMENT OF BASIS

1. Permit Number: 11-296

2. This application was reviewed for compliance with the applicable regulations ;

Chapters 3, 12

3. Does the permit comply with all applicable regulations identified above?

Yes

4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.

Public water supplies are exempted from review by Chapter 3, Section 17.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Richard Cripe, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on August 26, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matt Mead, Governor

John Corra, Director

August 10, 2011

Roger Strube, P.E.
DOWL HKM
1575 N 4th, Suite 105
Laramie, Wyoming 82072

RE: Permit Application Package for: Application No. **11-297**
Saddle Ridge Subdivision - Phase 2-B Construction

Incomplete Application: NO Action Taken - Application RETURNED

Dear Mr. Strube:

On August 1, 2011 three sets of plans and a "Wyoming Water Quality Application Form" were dropped off at the Wyoming DEQ/Water Quality Division(WQD) offices. There was no cover letter and no "Engineering Design Report(EDR)" included with these plans as required by Section 6 in both Chapters 11 and 12 of the Water Quality Rules and Regulations(WQR&R). Additionally, on the second page of the application a Chapter 23 "Minimum Standards for Subdivision Applications" review is requested, a Chapter 12 Public Water Supply system review is also requested, and not a Chapter 11 sewerage system review. Because the Saddle Ridge Phase 2-B subdivision lies within the city limits of the City of Cheyenne, a Chapter 23 review is not required. However, for water and sewer system extensions, both Chapter 11 & 12 reviews are required.

The minimum information required to be submitted in a WQD Chapter 11 or 12 Permit to Construct application is identified in Chapter 3, Section 6(b)(i) of the WQR&R. This section states that, "Application for a permit to construct, install or modify must be accompanied by three copies of plans, specifications, design data or other pertinent information covering the project, and any additional information required by the administrator." This means an EDR is required.

Section 6 in both Chapter 11 and 12 identifies the type of information that is required to be submitted in an EDR. The EDR is to include information such as, but not limited to; the scope/purpose/problems of the proposed project, technical

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ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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information about system components, pertinent calculations (fire hydrants & system pressures, design flows, etc.), downstream impact, letters of acceptance from the connecting water and sewer providing entity, and so on. Since there is no cover letter or EDR included with this submittal to indicate what it is desired for the WQD to do, this submittal is considered incomplete and is being returned with no action taken.

Additionally, the application form says that the responsible PE for this submittal is Roger Strube with DOWL HKM. However, the plan sheets submitted are all titled as "Aspen-Banner Engineering" with Jim I. Cavalli indicated as the responsible PE. Which is it, DOWL HKM and Strube or Aspen-Banner and Cavalli? Either way the plans as submitted are not acceptable because they are not signed & sealed by any Wyoming Licensed Professional Engineer.

And lastly, the application form is not signed by Mr. William J. Edwards as the Member/Manager for Saddle Ridge, LLC. A signed application form is required before the WQD can accept this application.

To summarize, this application package is considered by the WQD to be incomplete for the many reasons identified above, and is therefore not ready to be reviewed. It is being returned without having been entered into the WQD work line up, and has not undergone any technical review before being returned.

If you should have any questions, please contact me at either (307) 777-6183 or at ron.ewald@wyo.gov.

Sincerely,



Ronald L. Ewald
Assistant Southeast District Engineer
Southeast District, Water Quality Division

RLE/rm/11-0733

cc: William J. Edwards, Saddle Ridge, LLC, 506 Shoshoni Street,
Cheyenne, WY 82009
Herman Noe, City of Cheyenne Board of Public Utilities,
2406 Snyder Avenue, Cheyenne, WY 82001

Enclosure: All Application Materials

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 11-299

REF/PERMIT NO. 82-357, 82-544, 84-521, 02-288

TOWN OF BAGGS
INFILTRATION GALLERY AND INTAKE IMPROVEMENTS
PWS WY5600058

This permit hereby authorizes the applicant:

Town of Baggs
P.O. Box 300
Baggs, WY 82321

to construct, install or modify new infiltration gallery and associated piping, intake structure improvements according to the procedures and conditions of the application number 11-299. The facility is located in the Section 5 and Section 8 T12N R91W; Carbon County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed August 9, 2014.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

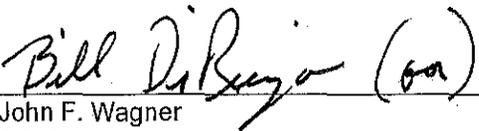
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit.

This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7088, FAX 307-777-5973, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 An operation and maintenance manual for the water system must be submitted to the Southeast District Engineer of the Water Quality Division for approval. The operation and maintenance manual for the water system should meet the requirements of Section 16, Chapter 12, Wyoming Water Quality Rules and Regulations.
- 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



John F. Wagner
Administrator
Water Quality Division



John V. Corra
Director
Department of Environmental Quality

Date of Issuance 8-10-11

STATEMENT OF BASIS

1. Permit Number: 11-299

2. This application was reviewed for compliance with the applicable regulations ;

Chapters 3, 12

3. Does the permit comply with all applicable regulations identified above?

Yes

4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Richard R. Cripe, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on August 9, 2011. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."