



The State
of Wyoming



Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

NOTIFICATION OF COVERAGE

September 16, 2009

Todd Ordahl
EMIT Water Discharge Technology
2665 Aviation Drive
Sheridan, WY 82801

RE: Fluoride Removal Pilot Project, Johnson County, Wyoming
Permit to Construct #09-502

Dear Mr. Ordahl:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Pilot Project in accordance with Section 5, 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 general permit and the materials submitted in your application package. **This permit expires December 1, 2009.**

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit. The following items need to be submitted to WDEQ/WQD CBM Group:

- a. Date that the construction of the treatment facility will begin;
- b. Certification the construction of the treatment facility was done in accordance with the terms and conditions of the permit; or

Certification the construction of the treatment facility was completed with changes or modifications.
- c. A detailed report including on-site and lab analytical data relating to the facility's performance for meeting the discharge requirements, treatment/discharge volumes, any problems with the system and what has been done to correct them, or a notification that the plant has not been operating, will be submitted within 30 days after end of treatment.

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450
Fax: (307) 473-3458

AIR QUALITY DIVISION
(307) 473-3455
Fax: (307) 473-3458

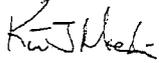
WATER QUALITY DIVISION
(307) 473-3465
Fax: (307) 473-3458



- f. Immediate notification to WDEQ/CBM Group of any violations, exceedences, upsets, or incidents relating to the facility and its operation.

Please notify WDEQ at least one week prior to start-up or initial processing of CBM water. If you have any questions, please contact Dennis Lamb or Kim Medina at 152 North Durbin, Casper, WY, 82601, (307) 473-3465. Thank you.

Sincerely,



Kim J. Medina
Geological Project Analyst
DEQ/WQD

Enclosures: Application for Permit to Construct
Certificate of Completion

cc: WDEQ File
IPS Cheyenne
Tim Kalus, Anadarko Petroleum Corporation, 1400 East Lincoln Street, Gillette, WY 82716 (no enclosures)

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 09-503

City of Laramie Raw Water Transmission Pipeline
PWS WY5600029

This permit hereby authorizes the applicant:

City of Laramie
P.O. Box C
Laramie, WY 82070

to construct, install or modify a raw water transmission pipeline and construct a new intake structure according to the procedures and conditions of the application number 09-503. The facility is located in the SE ¼ SW ¼ Section 36 T14N R77W; Albany County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed October 30, 2012.

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.

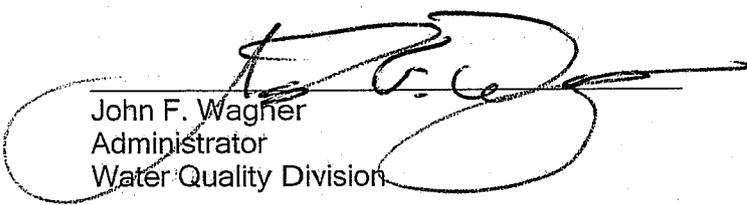
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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 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 11-2-09

RRC/rm/9-0984

STATEMENT OF BASIS

1. Permit Number: **09-503**

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 October 30, 2009. 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



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 15, 2009

Cheyenne Board of Public Utilities
2100 Pioneer Avenue
Cheyenne WY 82001

RE: Frontier Refining Barrier Wall Cheyenne BOPU Sewer Line Crossing Linings, Application No. **09-504**, Laramie County

Dear People:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of an Existing Sewage Collection System described as sewer line liners, located in SW ¼ NE ¼ Section 5 and NE ¼ NW ¼ Section 4 T13N R66W 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 sewage collection system in accordance with Chapter 11, Section 9 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 November 21, 2011.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **09-504** in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Louis B. Harmon PE-PG
Southeast District Engineer
Water Quality Division

LBH/rm/9-0821

cc: IPS, Cheyenne
Jeremy Sell, Trihydro Corp., 1252 Commerce Drive, Laramie, WY 82070

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	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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NOTIFICATION OF COVERAGE

October 14, 2009

Linda Ahlers and Tom Mohnen
PO Box 727
Newcastle, WY 82710

RE: Ahlers-Mohnen Small Residential Wastewater System, Weston County
Location: NENW ¼, S29, T48N, R61W; Permit # 09-505

Dear Mrs. Ahlers and Mr. Mohnen:

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 conditions apply:

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. If you have any questions, please contact me at (307) 777-6941.

Sincerely,

Suzanne Engels

Suzanne Engels
WDEQ/WQD

SE/rm/9-0908

cc: IPS, Cheyenne
WYDEQ Casper File
Ted Rosencranz, PO Box 263, Beulah, WY 82712

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ADMIN/OUTREACH
(307) 777-7937
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FAX 777-6462

AIR QUALITY
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FAX 777-5616

INDUSTRIAL SITING
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FAX 777-5973

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



**REVIEW OF PLANS & SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION**

PROJECT: Ahlers-Mohnen Small Residential Septic System

ENGINEER/ CONSULTANT: None

APPLICANT: Linda Ahlers and Tom Mohnen, PO Box 727, Newcastle, WY 82710

INSTALLER: Jimmy Mattson, M-S Construction, PO BOX 113, Deadwood, SD 57732

WATER QUALITY DIVISION APPLICATION NUMBER: 09-505

REVIEWING ENGINEER: Suzanne Engels 307.777.6941 or spagor@wyo.gov 

DATE OF REVIEW: September 18, 2009

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. In accordance with Section 12(a), Chapter 3, Wyoming Water Quality Rules and Regulations (WWQRR), this application is **not granted**. 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 of Chapter 3 of the WWQRR. If the applicant fails to provide the requested information within one month, the incomplete application shall be returned.

1. As required on the Wyoming Water Quality Application Form, please provide the State Engineer's Office permit number for the water well.
2. Please provide the ground slope at the location of the leachfield.
3. Based on the wastewater volume and the loading rate, the minimum required infiltrative surface area is 1875 sf and not 1800 sf. Please submit your sizing calculations found on page 4 and 5 of the application packet.
4. Please submit a completed site plan that includes the following:
 - a. North arrow
 - b. Property lines
 - c. Well and water lines
 - d. Location of any surface water
 - e. Driveway access
 - f. Location of the percolation test holes
 - g. Location of the septic system replacement area

The required paperwork can be found online:

<http://deq.state.wy.us/wqd/www/Permitting/Pages/SMWW/SMWW.asp>

Please make the required corrections and return to Wyoming Department of Environmental Quality, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, Wyoming 82601

SE/rm/9-0828



Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 18, 2009

Peggy Moeller
P.O. Box 923
Sundance, WY 82729

RE: Moeller Small Residential Wastewater System, Crook County
Location: SWNW ¼, S14 T53N, R62W; Permit # 09-506

Dear Mrs. Moeller:

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 conditions apply:

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.** If you have any questions, please contact me at (307) 777-6941.

Sincerely,

Suzanne Engels
WDEQ/WQD

SE/rm/9-0829

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development, P.O. Box 848, Sundance, WY 82729
Delbert Shoun, P.O. Box 854, Sundance, WY 82729

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NOTIFICATION OF COVERAGE

September 18, 2009

Martin Nye
3815 NW Creekside Drive
Vancouver, WA 98685

RE: Nye Small Residential Wastewater System, Crook County
Location: SWNW ¼, S24 T55N, R65W; Permit # 09-507

Dear Mr. Nye:

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 conditions apply:

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.** If you have any questions, please contact me at (307) 777-6941.

Sincerely,

Suzanne Engels
WDEQ/WQD

SE/rm/9-0830

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development, P.O. Box 848, Sundance, WY 82729
Russell Stinson, P.O. Box, 23, Hulett, WY, 82720

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John Corra, Director

NOTIFICATION OF COVERAGE

September 18, 2009

Richard Steedley
P.O. Box 112
Sundance, WY 82729

RE: Steedley Small Residential Wastewater System, Crook County
Location: NENW ¼, S25 T50N, R63W; Permit # 09-508

Dear Mr. Steedley:

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 conditions apply:

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.** If you have any questions, please contact me at (307) 777-6941.

Sincerely,

Suzanne Engels
Suzanne Engels
WDEQ/WQD

SE/rm/9-0833

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development, P.O. Box 848, Sundance, WY 82729
Gerald McInnery, PO Box 124, Sundance, WY 82729

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ADMIN/OUTREACH
(307) 777-7937
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John Corra, Director

NOTIFICATION OF COVERAGE

September 18, 2009

Dale Skidmore
1890 Highway 394
Craig, Colorado 81625

RE: Skidmore Outhouse – **AS-BUILT**,
Location: Parts of Sections 25/26 T14N, R86W,

Application No. **09-509**
Carbon County

Dear Mr. Skidmore:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **privy (outhouse)** 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 have constructed the privy facility in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the materials submitted in your application package, and the additional conditions listed below:

1. **Limited Usage Restriction** - since the outhouse as it has already been built does not actually meet two important requirements; #1- vault capacity only about 165 gallons whereas 500 gallons is required, and #2- no clean-out manhole provided; the property **SHALL NOT be used more than 120 days per year**. If and when the property is used more than 120 days per year a "Permit to Construct" **SHALL BE OBTAINED** to modify the privy to meet all of the applicable requirements. A copy of the current minimum privy requirements is included with this notification of coverage for your information and records. Also, a sketch of a suggested possible future upgrade solution is included for your review.
2. **No Chemical or Biological Additives Allowed** - Since this outhouse has been constructed with an unlined vault bottom exposed directly to the soil, no chemical or biological additives are to be added to the vault.

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FAX 777-3610

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FAX 777-6462

AIR QUALITY
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FAX 777-5616

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FAX 777-5864

SOLID & HAZ. WASTE
(307) 777-7752
FAX 777-5973

WATER QUALITY
(307) 777-7781
FAX 777-5973



If you have any questions, please contact me at (307) 777-6183.

Sincerely,

A handwritten signature in cursive script that reads "Ronald L. Ewald".

Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/9-0827

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Chapter 11, Part D, Section 44, of the WQR&R
Sketch of Suggested Possible Future Upgrade (if needed)

cc: IPS, Cheyenne
Jeff Snyder, Nelson Engineering, 30 N 1st Street, Driggs, Idaho 83422
Michael Jones, Carbon County Planning Director, Carbon Building, 215 West
Buffalo Street, Suite 336, Rawlins, Wyoming 82301



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 30, 2009

Jeff Sheridan
TRJ Ventures LLC
925 E. Washington St.
Powell, WY 82435

RE: Water Tower West, 3rd Addition. DEQ Permit #09-510R, Park County, Tract 1, Lot 63
Resurvey, T55N, R99W

Dear Mr. Sheridan,

This project consists of the construction of sewer collection and treated water mains for the Water Tower West, 3rd Addition (Avenue C).

The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Part B; 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
Assistant Northwest District Engineer
Water Quality Division

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

xc: PDF to Cheyenne
Jeremy A. Easum P.E., Sage Civil Engineering, 2824 Big Horn 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



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 09-511

Basin Water Tank 1.0 MG Storage Tank
PWS #560004

This permit hereby authorizes the applicant:

Mike Lewis, Acting Mayor
Town of Basin
P.O. Box 599
Basin, WY 82410

to construct a glass-fused-to-steel storage tank; according to the procedures and conditions of the application number 09-511. The new storage tank is sized at 1.0 million gallons and replaces two existing, smaller tanks. The tank will provide enough storage volume for about five days of average day demand. The facility is located west of the Town of Basin within Lot 2, Section 20, Township 51 North and Range 93 West in the county of Big Horn, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by October 1, 2011.

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.

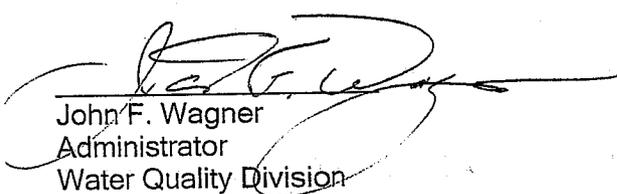
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not

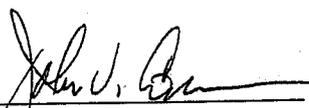
relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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 4 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 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 4 Please ensure that the overflow is properly fitted with an appropriate screen (e.g., number 4 mesh screen) to preclude the entry of small animals.
- 3 of 4 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.
- 4 of 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

9-24-09
Date of Issuance

JSB/rm/9-0843

STATEMENT OF BASIS

1. Permit Number: 09-511
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. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.
Public water supply wells are exempted from review by Chapter 3, Section 17
6. 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 S. Brough, jbroug@state.wy.us, Northwest District Engineer and completed on September 22, 2009. 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: Sherman Allred, P.E., Donnell & Allred, Inc., P.O. Box 638, Worland, WY 82401
C. Wade Verplancke, P.E., Wyoming Water Development Office, 6920 Yellowtail Rd., Cheyenne, WY 82002
Brian Mark, P.E., DEQ Cheyenne Office (PDF)
Kevin Frank, P.E., DEQ Casper Office (PDF)



Department of Environmental Quality

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



Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 18, 2009

Kreg Lombard, Mayor
City of Worland
P.O. Box 226
Worland, WY 82401

RE: 2009 Sewer and Water Main Replacement Projects, Permit Number: 09-512, Sec. 25, T. 47 N., R. 93 W., Washakie County

Dear Mayor Lombard:

This project involves the installation of approximately 1,900 linear feet of 8-inch SDR35 PVC sewer line replacements and 2,080 linear feet of 6-inch C900 PVC water line to replace old dilapidated sewer and water mains within Cloud Peak Addition, Evans Addition, Hampton Addition, and Original Town. The above application for coverage under General Permit has been reviewed in accordance with Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations 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: Mike Donnell, P.E., Donnell & Allred, Inc., P.O. Box 638, Worland, WY 82401
PDF to Cheyenne





Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 22, 2009

Joshua & Robyn Cozzens
P.O. Box 248
Baggs, Wyoming 82321

RE: Cozzens Residential Septic System,
Location: NE¼, Section 9, T12N, R91W,

Application No. **09-514**
Carbon County

Dear Mr. & Mrs. Cozzens:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **3 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 11, Part D of the Water Quality Division Rules and Regulations, the general permit, 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 permit. Additionally, the following project specific conditions also apply:

1. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the septic tank** must be extended to the ground surface.
2. Polyethylene Septic Tank Installation Requirements - To ensure structural integrity, the **manufacturer's instructions** regarding bedding the tank and filling the tank with water during burial **must be followed during installation**. Additionally, immediately after clean-outs, the tank must be refilled with water according to the manufacturer's instructions to maintain structural integrity.

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	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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The approval granted under this Notification Of Coverage and the General Permit shall expire on October 21, 2011. Please reference Application Number **09-514** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

A handwritten signature in cursive script that reads "Ronald L. Ewald".

Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

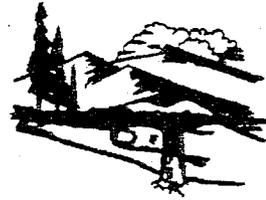
RLE/rm/9-0943

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Kristy Rowan, Carbon County Planning Office, Carbon Building, 215 West
Buffalo Street, Suite 336, Rawlins, Wyoming 82301



Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 23, 2009

Wyoming Military Department
Attn: Colonel Tammy J. Maas, CFMO
5500 Bishop Blvd.
Cheyenne, Wyoming 82009

RE: Camp Guernsey Gray Rocks Main House & Meeting Building Septic System,
Application No. **09-515**
Location: SE¼, Section 24, T26N, R67W,
Platte County

Dear Colonel Maas:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **common system for a 4 bedroom house and a 60 person capacity meeting building** 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 11, Part D of the Water Quality Division Rules and Regulations, the general permit, 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 permit. Additionally, the following project specific conditions also apply:

1. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the septic tank** must be extended to the ground surface.
2. The Bottoms of the Leachfield Chamber Trenches Shall be Undisturbed Soil - the plans specify that the bottoms of the trenches are to be "deeply raked". The bottoms of the trenches **SHALL NOT be raked** at all. The **trench bottoms SHALL BE excavated to be flat and level and the soil below SHALL BE left undisturbed.**

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH
(307) 777-7937
FAX 777-3610

ABANDONED MINES
(307) 777-6145
FAX 777-6462

AIR QUALITY
(307) 777-7391
FAX 777-5616

INDUSTRIAL SITING
(307) 777-7369
FAX 777-5973

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



The approval granted under this Notification Of Coverage and the General Permit shall expire on September 23, 2011. Please reference Application Number 09-515 in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

A handwritten signature in cursive script that reads "Ronald L. Ewald".

Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/9-0849

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Lawrence R. Gallagher, Summit Engineering, LLC, 5907 Townsend Place,
Cheyenne, Wyoming 82009
Platte County Planning Office, Dennis Becker, P.O. Box 728, Wheatland,
Wyoming 82001



Department of Environmental Quality

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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 14, 2009

Ronald E. Buchanan, Manager
DCP Rock Springs, LLC
120 Derby Forest CT
Roswell, GA 30076

RE: FedEx Fire Suppression System Supply Line 09-516R, W1/2NW1/4 Section 4 T18N
R105W, Sweetwater County

Dear Mr. Buchanan:

The above application for coverage under a General Permit to Construct a new water service modification to provide fire flow capability consisting of 218 linear feet of 6 inch PVC C900 main to be constructed 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 facilities 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,

Perry Roberson
Project Engineer
Water Quality Division

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

PDF: Cheyenne
Shawn M. Arnoldi, CESI, 404-N. Street, Suite 201, Rock Springs, WY 82901

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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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 23, 2009

Richard Birkle
15 Brown Road
Wheatland, WY 82201-8911

RE: Birkle Home Addition Residential Septic Sys Enlargement, Application # **09-518**
Location: Section 23, T24N, R68W, Platte County

Dear Mr. Birkle:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility 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 11, Part D of the Water Quality Division Rules and Regulations, the general permit, 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 permit. Additionally, the following project specific conditions also apply:

1. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the septic tank** must be extended to the ground surface.
2. Polyethylene Septic Tank Installation Requirements - To ensure structural integrity, the **manufacturer's instructions** regarding bedding the tank and filling the tank with water during burial **must be followed during installation**. Additionally, immediately after clean-outs, the tank must be refilled with water according to the manufacturer's instructions to maintain structural integrity.

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH
(307) 777-7937
FAX 777-3610

ABANDONED MINES
(307) 777-6145
FAX 777-6462

AIR QUALITY
(307) 777-7391
FAX 777-5616

INDUSTRIAL SITING
(307) 777-7369
FAX 777-5973

LAND QUALITY
(307) 777-7756
FAX 777-5864

SOLID & HAZ. WASTE
(307) 777-7752
FAX 777-5973

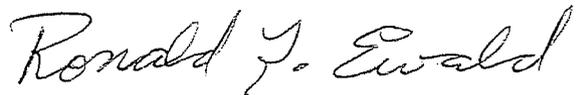
WATER QUALITY
(307) 777-7781
FAX 777-5973



The approval granted under this Notification Of Coverage and the General Permit shall expire on September 23, 2011. Please reference Application Number **09-518** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,



Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/9-0846

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Platte County Planning Office, Dennis Becker, P.O. Box 728, Wheatland,
Wyoming 82001

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 09-517R

PacifiCorp Naughton Power Plant - Flue Gas Desulphurization Effluent Disposal Pond 4

This permit hereby authorizes the applicant:

Richard A. Goff
PacifiCorp
1407 West North Temple
Salt Lake City, Utah 84116

to construct a synthetically and clay lined flue gas desulphurization effluent disposal pond with a secondary geomembrane and leak detection system consisting of a top maximum water surface area of 37 acres and a capacity of 1407 acre - feet with a maximum water depth of 52 feet, plus 5 feet of normal operating freeboard, according to the procedures and conditions of the application number 09-517R. The facility is located about 3.5 miles southwest of the Town of Kemmerer, Wyoming at the Naughton Power Plant in Section 33, T21N, and R116W, and Section 1, T20N, R117W in the county of Lincoln, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by October 29, 2012.

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 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 307-332-7726, 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 11 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 11 This facility is permitted to only receive the following scrubber wastes and pH control chemicals associated with flue gas desulphurization (FGD) effluent from the Naughton Power Plant Units 1, 2 and 3 flue gas scrubbers:
- a. Scrubber process wastes including the FGD waste purge stream from the Units 1 and 2 oxidation tank(s), waste flows from the FGD process water softening systems, scrubber effluent, scrubber area sump products, process spills from reagent receiving areas, and scrubber quench system wastes.
 - b. Sodium carbonate solids and liquids (used for control of pond pH).
- 4 of 11 A completed operation and maintenance manual for this facility must be submitted to the Southwest District Engineer, State of Wyoming, DEQ, Water Quality Division, 510 Meadow View Drive, Lander, WY 82520. This manual must meet the applicable requirements of Chapter 11, Section 24 of the Wyoming Water Quality Rules and Regulations, and be approved by the DEQ/WQD prior to placing this facility in operation.
- 5 of 11 All the leak detection wells are to be checked weekly for the first month operation and monthly thereafter with a log kept of the inspection results. If fluid is found, the

DEQ/WQD Southwest District Engineer is to be notified immediately.

6 of 11

If fluid is found in the leak detection system, and a leak is verified by observation or sampling and testing, the fluid recirculating system shall be activated to minimize the fluid level under the primary pond liner and reduce the chance for migration of the fluid to groundwater, until repairs and/or corrective action can be taken.

7 of 11

If a leak in the primary liner of a cell is confirmed, the following monitoring and reporting actions are required:

1. High level alarms on the recirculating leak detection system sumps shall be continuously monitored.
2. The totalizing hour meters shall be read at least weekly.
3. If the recovery rate exceeds 400 gallons per day per acre (gpd/acre) for any sub-cell as delineated by the recovery system, the permittee shall notify the DEQ/WQD within seven (7) days.
4. If the recovery rate exceeds 800 gpd/acre for any sub-cell as delineated by the recovery system, the DEQ/WQD shall be notified within 48 hours.
5. If the high level alarm level is reached, the DEQ/WQD shall be notified immediately.
6. If fluids are detected in the leak detection system and there is a threat of contamination to groundwater, the DEQ/WQD may require the construction of new groundwater monitoring wells along with periodic sampling and testing of the groundwater monitoring wells. Required sampling and testing parameters and frequency will be determined by the DEQ/WQD.
7. If fluids are detected in the leak detection system and if groundwater is found to be contaminated by the flue gas disposal pond the DEQ/WQD may require the construction of a contaminated groundwater interceptor pump-back system.

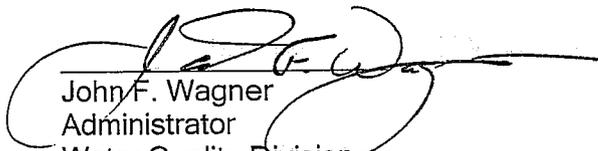
8 of 11

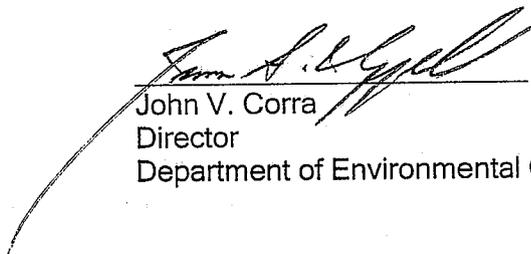
a) A 1 foot thick compacted clay liner with a max permeability of 1×10^{-5} cm/sec under the second high-density polyethylene liner is required.

b) The compacted clay liner shall meet the following criteria: The tests for water content and density shall be taken during the placement of each lift of the liner. A total minimum liner thickness of one (1) foot shall be provided and shall be constructed with maximum lifts of one-half (0.5) foot. Either permeability testing of undisturbed core samples from the in-place seal, or detailed tests such as particle size distribution and Atterburg limits shall be conducted. Detailed tests should confirm that the soil specified was used for liner construction. One (1) test shall be conducted per acre per lift. For core sampling of the in-place liner, one (1) core of the completed liner shall be tested per acre. The permittee shall provide the division written certification by a Wyoming registered professional engineer that the soil liner was constructed according to the permit and that final testing indicated results within the allowable limits established by the permit.

- 9 of 11 The expected minimum life of this disposal pond is seven years. One year before the operations of the disposal pond cease a closure and post closure plan must be submitted to the Southwest District Engineer. The plan must follow Solid Waste Rules and Regulations. Disposal pond closure must be completed within five years of ceasing operations.
- 10 of 11 This facility is required to comply with the Wyoming Air Quality Standards and Regulations Chapter 2 Ambient Standards. Chapter 2, Section 11(a)(i) shall be the minimum basis for determining the adequacy of the proposed procedures and methods for controlling odors. Air Quality Standards are an enforceable condition of this permit.
- 11 of 11 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

12-21-09
Date of Issuance
MDB/rm/9-1093

STATEMENT OF BASIS

1. Permit Number: 09-517R
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?
The approval is based upon following the Chapter 20, Section 35 regulations in accordance with Section 5 of Chapter 11.
4. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.
The disposal pond will be lined with a primary 60-mil high-density polyethylene (HDPE) liner and with a 40-mil HDPE secondary liner installed below a leak detection system. A 1-foot compacted clay liner will also be installed under the secondary liner. If a leak is detected, a recirculation system to return leaking fluids to the pond will be used, thus reducing the hydrostatic head beneath the primary liner, and minimizing the risk of migration of the fluids to groundwater.
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, Southwest District Engineer, mbaron@wyo.gov, and completed on October 29, 2009. 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: Jason M. Stratton, P.E., Tetra Tech, Inc., 605 North Warehouse Road, Casper, WY 82601



Department of Environmental Quality



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

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 1, 2009

Bob Hauber
P.O. Box 515
Hulett, WY 82720

RE: Hauber Small Residential Wastewater System, Crook County
Location: NWSW 1/4, S13, T55N, R67W; Permit # 09-520

Dear Mr. Hauber:

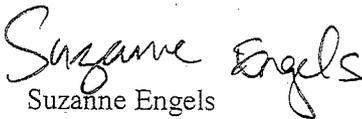
The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or 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 conditions apply:

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 lagoon.
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.** If you have any questions, please contact me at (307) 777-6941.

Sincerely,


Suzanne Engels

WDEQ/WQD

SE/rm/9-0865

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development, P.O. Box 848, Sundance, WY 82729
Russell Stinson, Stinson Backhoe, PO Box 23, Hulett, WY 82720

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH
(307) 777-7937
FAX 777-3610

ABANDONED MINES
(307) 777-6145
FAX 777-6462

AIR QUALITY
(307) 777-7391
FAX 777-5616

INDUSTRIAL SITING
(307) 777-7369
FAX 777-5973

LAND QUALITY
(307) 777-7756
FAX 777-5864

SOLID & HAZ. WASTE
(307) 777-7752
FAX 777-5973

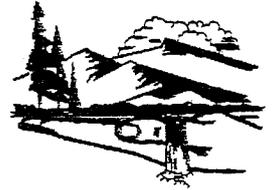
WATER QUALITY
(307) 777-7781
FAX 777-5973





Department of Environmental Quality

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



John Corra, Director

Dave Freudenthal, Governor

NOTIFICATION OF COVERAGE

October 9, 2009

William Malloy, Mayor
Town of Thermopolis
P.O. Box 603
Thermopolis, WY 82443

RE: Johnson Ave. Treated Water Main Replacement. DEQ Permit #09-521, Hot Springs County, S 1/2, Section 35 Original Survey, T43N, R95W

Dear Mayor Malloy,

This project consists of the construction of 685 linear feet of 6-inch and 845 linear feet of 8-inch PVC waterline to replace existing cast iron and asbestos cement waterlines. New HDPE service lines will be installed to the residential property line terminating at a new curbstop, which will be reconnected to the existing service line.

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
Assistant Northwest District Engineer
Water Quality Division

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

xc: PDF to Cheyenne
Heath J Overfield P.E., Engineering Associates, 429 Broadway, Thermopolis, WY 82443

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

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

AIR QUALITY
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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



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 09-522

Squaw Creek Water District 2009 Exploratory Well Drilling & Development
PWS #WY 5600737

This permit hereby authorizes the applicant:

Dick Shuptrine, President
Squaw Creek Water District
P.O. Box 1954
Jackson, WY 83001

to drill, construct, develop and test Squaw Creek Water District 2009 Exploratory Well; according to the procedures and conditions of the application number 09-522. The well is about seven miles south of Jackson and is within SE ¼, NE ¼, Section 2, T39N, R116W in the county of Teton, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by November 1, 2011.

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.

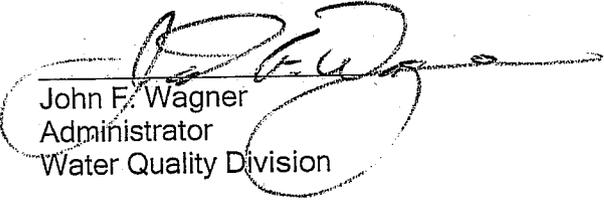
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit.

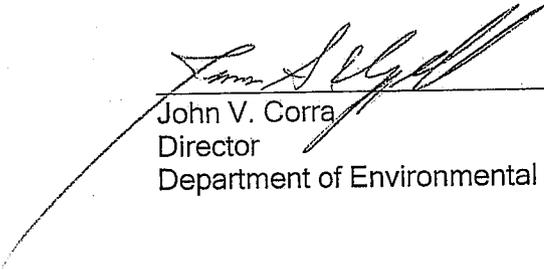
This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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 4 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 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 4 A Chapter 3 Permit to Construction Application along with plans and technical specifications for the equipping of the well and other construction such as installation of discharge piping, construction of a well house, disinfection, etc. must be submitted to the Wyoming Department of Environmental Quality. A Permit to Construct must be obtained prior to construction of the aforementioned items.
- 3 of 4 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.
- 4 of 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

10-2-09
Date of Issuance

JSB/rm/9-0868

STATEMENT OF BASIS

1. Permit Number: 09-522
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. However, subsequent plans and specifications must be submitted for the equipping of the well and other construction such as installation of discharge piping, construction of a well house, disinfection, etc.
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. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.
Public water supply wells are exempted from review by Chapter 3, Section 17
6. 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 S. Brough, james.brough@wyo.gov, Northwest District Engineer and completed on October 1, 2009. 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 Ablondi, P.E., Rendezvous Engineering, P.O. Box 4858, Jackson, WY 83001



Department of Environmental Quality



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

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 29, 2009

Michael Lewis, Mayor
Town of Basin
P.O. Box 599
Basin, WY 82410

RE: Crescent Drive Sewer Project. DEQ Permit #09-523, Big Horn County, NW1/4 SW1/4, NW1/4NE1/4, SE1/4NE1/4, and SW1/4NW1/4, S21, T51N, R93W

Dear Mayor Lewis,

This project consists of the installation of new 8-inch SDR35 PVC Sewer main in the 12th street section, Block 42 section and Crescent drive section of the project. In the G Street section of the project, a new 12-inch DR-17 HDPE pipe will be installed by pipe bursting the existing 10-inch sewer main.

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
Assistant Northwest District Engineer
Water Quality Division

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

xc: PDF to Cheyenne
Sherman B Allred P.E, L.S., Donnel and Allred, Inc. P.O. Box 638, Worland, WY 82401

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

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FAX 332-7726

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FAX 332-7726

LAND QUALITY
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FAX 332-7726

SOLID & HAZARDOUS WASTE
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FAX 332-7726

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



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 09-524R

Kemmerer - Diamondville Joint Powers Board Water Treatment Plant Upgrade

This permit hereby authorizes the applicant:

Truman Julian
Kemmerer - Diamondville Joint Powers Board
220 State Hwy 233
Kemmerer, WY 83101

to construct a 4.6 million gallon per day (max flow) water treatment plant consisting of a screened raw water intake, raw water pumps, strainers, pretreatment mixers, clarifiers, a membrane filtration system and a on-site sodium hypochlorite generation system according to the procedures and conditions of the application number 09-524R. The facility is located about 1.75 miles north of the Town of Kemmerer, within the NW ¼ of Section 12, T21N, R116W in the county of Lincoln, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by January 22, 2012.

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.

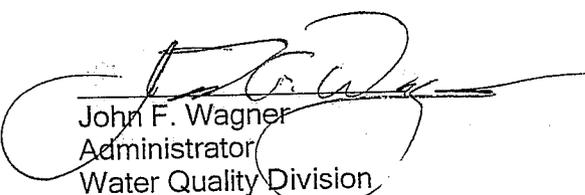
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit.

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), 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 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

1-25-10
Date of Issuance

MDB/rm/10-0069

STATEMENT OF BASIS

- 1. Permit Number: 09-524R
- 2. Application reviewed for compliance with the following regulations:

Chapter 11 and 12.

- 3. Does the permit comply with all applicable regulations identified above? No.

Chapter 12, Section 10 (i) does not list membrane filtration as an approved filtration system. The proposed Siemens Corporation Memcor S10V Ultrafiltration Module was evaluated for the removal of microbial contaminants by NSF International's testing laboratory in Ann Arbor, MI. Based on the EPA's LT2ESWTR requirements log removal values (LRV) for the endospores of the bacteria *Bacillus atrophaeus* and the MS2 coliphage virus were calculated for three different methods. The results are as follows(Sept. 2009, NSF, NSF 09/32/EPADWCTR, EPA/600/R-09/110) :

LRV C-Test for Each Organism			
Challenge Organism	Method 1	Method 2	Method 3
<i>B. atrophaeus</i>	7.10	7.13	6.62
MS2	2.98	3.00	2.57

Since *Bacillus atrophaeus* served as a surrogate for the removal of *Cryptosporidium* which under all methods had a LRV greater than 2.0 a variance is granted for the use membrane filters.

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

Water treatment plants 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, mbaron@wyo.gov, and completed on January 22, 2010. 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:

Jason Broome, P.E., Forsgren Assoc., 370 E. 500 South, Suite 200, Salt lake City, UT 84111
Kevin Frank, P.E., Wyoming Dept. of Environmental Quality, Casper, WY
Wade Verplancke, P.E., Wyoming Water Development Commission, 6920 Yellowtail Road,
Cheyenne, WY 82002



The State
of Wyoming



Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

NOTIFICATION OF COVERAGE

September 24, 2009

Chris Knodel, P.E.
City of Sheridan
P.O. Box 848
Sheridan, WY 82801

RE: Elk Pasture Fire Hydrant Installation Project, WDEQ #09-525
Sheridan, WY

Dear Mr. Knodel:

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 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.
WDEQ/WQD, Northeast District Supervisor

Enclosures: Certificate of Completion

cc: Jeffrey Rosenlund, P.E., DOWL KHM, P.O. Box 7010, Sheridan, WY 82801
WDEQ File
IPS (Cheyenne)





The State
of Wyoming



Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

NOTIFICATION OF COVERAGE

October 9, 2009

Don Meike
Kaycee Senior Housing, Inc.
1916 Sussex Road
Kaycee, WY 82639

RE: Kaycee Senior Apartments, WDEQ #09-526
Kaycee, WY

Dear Mr. Meike:

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 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.
WDEQ/WQD, Northeast District Supervisor

Enclosures: Certificate of Completion

CC: David Engles, P.E., EnTech, Inc. Professional Engineers, 1949 Sugarland Dr., Suite 205, Sheridan, WY 82801
Allen Streeter, Mayor, Town of Kaycee, P.O. Box 265, Kaycee, WY 82639
WDEQ File
IPS (Cheyenne)

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450
Fax: (307) 473-3458

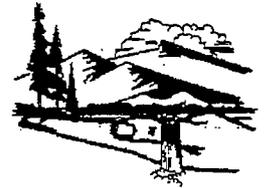
AIR QUALITY DIVISION
(307) 473-3455
Fax: (307) 473-3458

WATER QUALITY DIVISION
(307) 473-3455
Fax: (307) 473-3458





Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 7, 2009

Bill Meckem
26441 Trails Inn
Rio Verde, AZ, 85263

RE: Solitude Mobile Home Park Septic System, Permit Number: 09-527R, E 1/2, NE 1/4, Section 7, T. 41 N., R. 106 W., Fremont County

Dear Mr. Meckem:

This project involves the construction of a two-septic tank and common gravity fed leachfield system to serve five mobile home sites. The peak and average day wastewater flows are estimated to be 1750 and 1050 gallons per day for the five mobile home lots. The above application for coverage under General Permit has been reviewed in accordance with Chapter 11, Part B of the Wyoming Water Quality Rules and Regulations 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
Attn: Ray Price, Fremont County Planning, 450 North 2nd St., Lander, WY 82520

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

ABANDONED MINES
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FAX 332-7726

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(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



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 09-528

Big Horn Regional Joint Powers Board (BHRJPB) Well No. 2 Drilling & Development

This permit hereby authorizes the applicant:

Kevin Boyce, P.G., Project Manager
Wyoming Water Development Commission
6920 Yellowstone Road
Cheyenne, WY 82002

to drill, construct, develop and test BHRJPB Well No. 2; according to the procedures and conditions of the application number 09-528. The facility is located near the Town of Shell and is within NW ¼, SW ¼, Section 6, T52N, R92W in the county of Big Horn, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by November 1, 2011.

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.

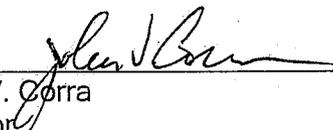
This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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 4 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 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 4 A Chapter 3 Permit to Construction Application along with plans and technical specifications for the equipping of the well and other construction such as installation of discharge piping, construction of a well house, disinfection, etc. must be submitted to the Wyoming Department of Environmental Quality. A Permit to Construct must be obtained prior to construction of the aforementioned items.
- 3 of 4 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.
- 4 of 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

10/12/09
Date of Issuance
JSB/HES/bb/9-0899

STATEMENT OF BASIS

1. Permit Number: 09-528
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?
Chapter 12, Section 9(b)(iii)(B)(IV) requires a 2-inch radial annular grouting space for all permanent casing. A variance was requested from this requirement for the annular space around the 7-inch casing that is designed to extend from about the 760-foot depth to the water bearing aquifer. The variance is hereby granted since the well will be grouted with a 2-inch radial annular space from the ground surface to approximately the 760-foot depth. The design of the well meets the objectives of the referenced regulation.
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. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.
Public water supply wells are exempt from review by Chapter 3, Section 17
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

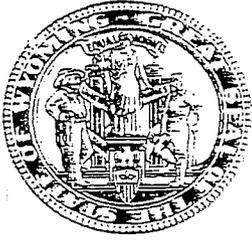
CERTIFICATION

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 Hannes E Stueckler, hstuec@wyo.gov, Assistant Northwest District Engineer and completed on October 8, 2009. 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."

JSB/HES/bb/9-0899

xc: PDF to Cheyenne

Jerry Hunt/Ben Jordan, P.E., Weston Engineering, Inc., 1050 North 3rd Suite E, Laramie, WY 82072
John Joyce, Big Horn Regional Joint Powers Board, P.O. Box 346, Worland, WY 82401



Department of Environmental Quality



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

Dave Freudenthal, Governor

John Corra, Director

November 23, 2009

Debby Dellai-Boese, Chairman
Sweetwater County Board of Commissioners
80 West Flaming Gorge Way
Green River, WY 82935

Subject: Adverse Recommendation - Washam Creek Subdivision
WDEQ / WQD Application No. 09-529

Dear Chairman:

This subdivision application was received in this office on September 24, 2009. Additional information was requested from the developer and the developer's consultants on October 24, 2009. The Department of Environmental Quality is required by law to respond with comments within 60 days after receipt of the application as described in W.S. §18-5-306 (c). The additional information requested has not been received in time to allow an analysis of the safety and adequacy of the proposed water and sewer systems by November 23, 2009. The statute does not allow the extension of the 60 day completion date even with the consent of all parties.

Recommendation:

The Department of Environmental Quality is making an adverse recommendation for the Washam Creek Subdivision, Sweetwater County, Department of Environmental Quality / Water Quality Division Application No. 09-529. This recommendation is provided pursuant to W.S. §18-5-306.

Re-submittal:

If the County Commissioners desire a determination of the safety and adequacy of the proposed water and sewer systems from the Department of Environmental Quality, the developer should re-submit the complete application with the additional information necessary. The submittal will be assigned a new application number with a new 60 day clock.

Sincerely:

Perry Roberson, Project Engineer

Approved by: Mark Baron, P.E., Southwest District Supervisor

Water and Wastewater Program, Wyoming Water Quality Division



PR/pr

cc: Mark Kot, Sweetwater County Planning & Zoning, 80 West Flaming Gorge Way, Green River,

Wyoming 82935

Ed Harbertson, 744 N. 5500 W., Ogden, Utah 84404

Francis G. Anderson, P.E., Reeve & Associates, 4155 South Harrison Blvd, Suite 310,

Ogden, UT

Mr. Mike Ebsen, Water Management Specialist, Wyoming State Engineers Office,
Herschler Building, 4th Floor East, Cheyenne, WY 82002

IPS / Water Quality Division



Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 29, 2009

Sarah Jay and Leon Jay
466 Government Canyon Road
Hulett, WY 82720

RE: Jay Small Residential Wastewater System, Crook County
Location: NW 1/4, S29, T57N, R64W; Permit # 09-530

Dear Sarah and Leon:

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 conditions apply:

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 lagoon.
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.** If you have any questions, please contact me at (307) 777-6941.

Sincerely,

Suzanne Engels
WDEQ/WQD

SE/rm/9-0857

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development, P.O. Box 848, Sundance, WY 82729
Russell Stinson, Stinson Backhoe, PO Box 23, Hulett, WY 82720

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	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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The State
of Wyoming



Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

NOTIFICATION OF COVERAGE

October 21, 2009

Sean Lovelace
Rivers Edge RV and Cabin Resort
2130 West 40th Street,
Casper, WY 82604

RE: River's Edge RV and Cabin Resort Project, WDEQ #09-531
Evansville, WY

Dear Mr. Lovelace:

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

Karen L. Farley, P.E.
WDEQ/WQD, Northeast District Supervisor

Enclosures: Certificate of Completion

cc: Matt Williams, P.E., WLC, 200 Pronghorn Street, Casper, WY 82601
WDEQ File, IPS

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450
Fax: (307) 473-3458

AIR QUALITY DIVISION
(307) 473-3455
Fax: (307) 473-3458

WATER QUALITY DIVISION
(307) 473-3465
Fax: (307) 473-3458



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 09-532

REFERENCE PERMIT NO. WYPDES #0022161

Ranchester Wastewater Lagoons Improvement Project

This permit hereby authorizes the applicant:

Town of Ranchester
P.O. Box 695
Ranchester, WY 82839

to construct, install or modify the Ranchester Wastewater Lagoons Improvement Project, according to the procedures and conditions of the application number **09-532**. The facility is located at Latitude 44.909 and Longitude 107.163, in Sheridan County. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2010.

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 meets applicable operational requirements. Compliance with applicable 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.

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 shall 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 4 The applicant will provide immediate oral or written notice to the Northeast District, Water Quality Division, 152 North Durbin, 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.

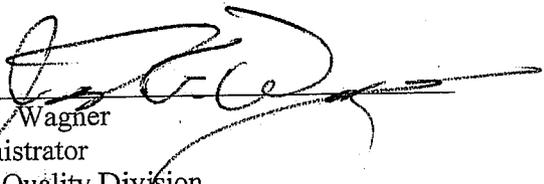
2 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY, 82601 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

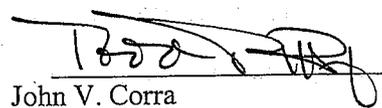
- a. Date that construction of the facility was completed; and
- b. Date that the facility was placed in operation; and
- c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
- d. Certification the facility was completed with changes or modifications. 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.

3 of 4 Within thirty days of completion of construction of the authorized facility, the Engineer of Record will submit two (2) complete copies of the Operation and Maintenance Manuals to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY 82601.

4 of 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

11-2-09
Date of Issuance

KLF/rm/9-0981
cc: Kevin Frank, WDEQ

STATEMENT OF BASIS

1. Permit Number: **09-532**
2. Application reviewed for compliance with the following applicable regulations :
Chapter 3 and Chapter 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.

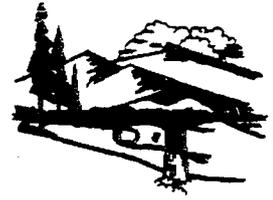
N/A
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 is not required.
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

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 Karen L. Farley, P.E., and completed on October 30, 2009. 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



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 26, 2009

United States Dept. of Agriculture
Attn: Jack A. Morgan, Research Leader
Corps Lab, 1701 Centre Avenue
Fort Collins, Colorado 80526

RE: High Plains Grasslands Research Center – Sewer Collection Line Replacement
(Reference Previous Permit No. 95-220)

Application No. **09-533**
Laramie County

Location: W½, Section 16, T14N, R67W,

Dear Mr. Morgan:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Sewage Collection Systems 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 sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, 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 approval granted under this Notification Of Coverage and the General Permit shall expire on October 26, 2011. Please reference Application Number **09-533** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/9-0959

Enclosures: GENERAL PERMIT - Extensions/Modifications of Existing Sewage Collection Systems
Certificate of Completion Form

cc: IPS, Cheyenne
John Galbreath, Coffey Engineering & Surveying, 903 East Grand Avenue,
Laramie, Wyoming 82070
Dan White, Cheyenne City Attorney, 2101 O'Neil Avenue, Cheyenne, WY 82001

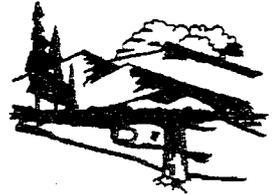
Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	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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Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

December 1, 2009

City of Rawlins
Duane Stolns, Public Works Director
P.O. Box 953
Rawlins, WY 82301

RE: Post and Rail Estates Residential Subdivision,
Application No. **09-534**, Carbon County

Dear Mr. Stolns:

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 installing approximately 2640 ft of 8 inch SDR 35 sanitary sewer main, installing thirteen new manholes, installing approximately 2230 ft of 8 inch PVC C-900 water main, and installing seven new fire hydrants, SE ¼ Section 21, T21N R 87W; Carbon 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 December 1, 2011.

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. **09-534** 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/9-1070

Enclosure: Certificate of Completion

cc: IPS, Cheyenne
Barney T. Horrell, Coyote Engineering, 508 E. Main Street, Salem, Virginia 24153

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ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	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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Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 6, 2009

Kenneth Waldner
Town of Wamsutter
P.O. Box 6
Wamsutter, WY 82336

RE: Town of Wamsutter - Wamsutter Commercial Building Site Development - Sewer Main Extension - Permit Number 09-535, SE ¼ Section 27, T20N, R94W, Sweetwater County

Dear Mr. Waldner:

The above application for coverage under General Permit to Construct the extension of a sewage collection system consisting of about 600 linear feet of 8-inch PVC sewer main in accordance with Chapter 3, Section 7 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 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,

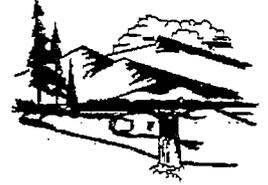
Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne
James W. Johnson, P.E., Johnson Engineering Assoc., 110 Superior Ct, Laramie, WY 82072





Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 5, 2009

James Huspek, President
Rafter J Improvement and Service District
2951 W. Big Trail Drive
Jackson, WY 83001

RE: Rafter J - Cedarwoods Townhouses Sanitary Sewer Mains, Permit Number: 09-536, NE ¼, Section 18, T40N, R116W, Teton County

Dear Mr. Huspek:

This project involves the installation of approximately 1060 linear feet of 8-inch sewer main that will replace existing mains which has infiltration pipe sags, and pipe joint problems. This application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; and Chapter 11, Section 9 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: Matthew Ostdiek, P.E., Rendezvous Engineering, P.O. Box 4858, Jackson, WY 83001
IPS, Cheyenne

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

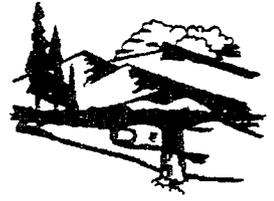
SOLID & HAZARDOUS WASTE
(307) 332-6924
FAX 332-7726

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





Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 30, 2009

Jane Black
Juniper Hills #31
Pine Haven, WY 82721

RE: Black Small Residential Wastewater System, Crook County
Location: NE1/4, SE 1/4, S20, T50N, R66W; Permit # 09-537

Dear Mrs. Black:

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 conditions apply:

- 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.
- 3) As required by the August 27, 2009, Crook County Growth & Development (County) letter, within 30 days of the issuance of this Permit to Construct the following items must be completed:
 - a) A completed Application for Inspection of Small Wastewater Treatment Facility Installation along with the \$200.00 inspection fee must be submitted to the County.
 - b) An inspection of this small wastewater treatment facility must be conducted by County staff.

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.** If you have any questions, please contact me at (307) 777-6941.

Sincerely,


Suzanne Engels
WDEQ/WQD

SE/rm/9-0863

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development, P.O. Box 848, Sundance, WY 82729
Bart Webb, 600 S Garner Lake Road, Gillette, WY 82716

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ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	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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The State
of Wyoming



Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

NOTIFICATION OF COVERAGE

October 12, 2009

Andrew Beamer, P.E.
City of Casper
200 North David Street
Casper, WY 82601

RE: Fort Casper Relief Sewer, WDEQ #09-538,
City of Casper, WY

Dear Mr. Beamer:

The above application 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: Shane M. Porter, P.E., WLC, 200 Pronghorn, Casper, WY 82601
WDEQ File
IPS



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 09-539

REFERENCE PERMITS NO. 08-663, 09-072, 09-119, 09-469, 09-639

Dry Fork Station Waste Water/Water Re-Use Pond

This permit hereby authorizes the applicant:

Basin Electric Power Cooperative
12460 N. Hwy 59
Gillette, WY 82716

to construct, install or modify the Dry Fork Station Waste Water/Water Re-Use Pond, according to the procedures and conditions of the application number **09-539**. The facility is located in the SE ¼ NW ¼ of Section 24, Township 51 North, Range 72 West, Campbell County, approximately 8 miles north of Gillette, Wyoming, east of Wyoming Highway 59. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2011.

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 meets applicable operational requirements. Compliance with applicable 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.

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 shall 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.

STATEMENT OF BASIS

1. Permit Number: **09-539**
2. Application reviewed for compliance with the following applicable regulations :
Chapter 3 and Chapter 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.

N/A
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 is not required.
6. 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 Karen L. Farley, P.E., and completed on January 26, 2010. 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.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 1, 2009

John Wolf
422 HWY 112
Hulett, WY 82720

RE: Wolf Small Residential Wastewater System, Crook County
Location: S26, T55N, R65W; Permit # 09-540

Dear Mr. Wolf:

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 conditions apply:

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 lagoon.
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.** If you have any questions, please contact me at (307) 777-6941.

Sincerely,

Suzanne Engels
Suzanne Engels
WDEQ/WQD

SE/rm/9-0866

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development, P.O. Box 848, Sundance, WY 82729
Russell Stinson, Stinson Backhoe, PO Box 23, Hulett, WY 82720

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH
(307) 777-7937
FAX 777-3610

ABANDONED MINES
(307) 777-6145
FAX 777-6462

AIR QUALITY
(307) 777-7391
FAX 777-5616

INDUSTRIAL SITING
(307) 777-7369
FAX 777-5973

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





Department of Environmental Quality

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



Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 12, 2009

Kirk S. Schmidt, Assistant Superintendent
Fremont County School District No. 1
400 Balwin Creek Rd
Lander, WY 82520

RE: Fremont County North Middle School. DEQ Permit #09-541R, Fremont County, Lat 42.842, Long -108.7385

Dear Mr. Schmidt,

This project consists of the installation of new 6-inch water service line for domestic water supply and fire hydrant, and the installation of 4 and 6-inch sewer lines to service the new Fremont County North Middle School.

The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Part B; 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.

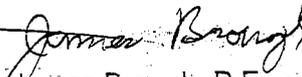
These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

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
Assistant Northwest District Engineer
Water Quality Division


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

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

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





WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 09-542

Squaw Creek POD, Multiple Impoundments

This permit hereby authorizes the applicant:

Pinnacle Gas Resources, Inc.
Attn.: Mr. Terry Webster
1 E. Alger St, Suite 206
Sheridan, WY 82801

to have installed five (5) compliance monitoring wells according to the procedures and conditions of the application number 09-542. The facilities are proximal to coalbed methane produced water impoundments located in Township 55N, Range 73W, Sections 26, 29, 32 and 33, and in Township 55N, Range 74W, Section 24 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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 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 Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, 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 4 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.
- 3 of 4 **Monitoring Requirements:**
 Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on a quarterly basis until further notice and shall include the following information:
 - Measurement of static water level in all monitoring wells: Enlarged Stallion MW-1, Brown Cow MW-1, Prairie Dog MW-1, Shaggy Sheep MW-1, and Leon #1 MW-1;
 - Sampling and analysis of groundwater at down-gradient wells: Enlarged Stallion MW-1, Brown Cow MW-1, Prairie Dog MW-1, Shaggy Sheep MW-1, and Leon #1 MW-1;
 - The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

Enlarged Stallion

Parameter	Enlarged Stallion MW-1 Background Value (mg/L) (5/20/2005)	Class III Water Quality Standards (mg/L)
Arsenic	.048	0.2
Selenium	ND	0.05
Sulfate	2370	3000
TDS	3660	5000
pH	7.9	6.5 – 8.5 (s.u)

Brown Cow

Parameter	Brown Cow MW-1 Background Value (mg/L) (5/20/2005)	Class III Water Quality Standards (mg/L)
Arsenic	.01	0.2
Selenium	ND	0.05
Sulfate	20	3000
TDS	880	5000
pH	8.3	6.5 – 8.5 (s.u)

Prairie Dog

Parameter	Prairie Dog MW-1 Background Value (mg/L) (?)	Class III Water Quality Standards (mg/L)
Arsenic	.025	0.2
Selenium	ND	0.05
Sulfate	1060	3000
TDS	2250	5000
pH	7.7	6.5 – 8.5 (s.u)

Shaggy Sheep

Parameter	Shaggy Sheep MW-1 Background Value (mg/L) (5/20/2005)	Class III Water Quality Standards (mg/L)
Arsenic	.022	0.2
Selenium	ND	0.05
Sulfate	160	3000
TDS	1440	5000
pH	8.2	6.5 – 8.5 (s.u)

Leon #1

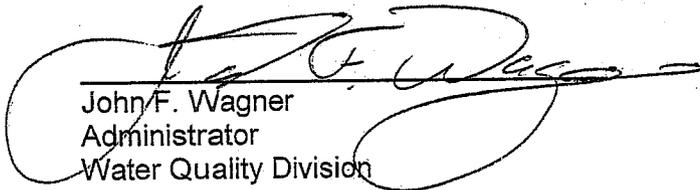
Parameter	Leon #1 MW-1 Background Value (mg/L) (4/17/2006)	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	1320	3000
TDS	2310	5000
pH	7.9	6.5 – 8.5 (s.u)

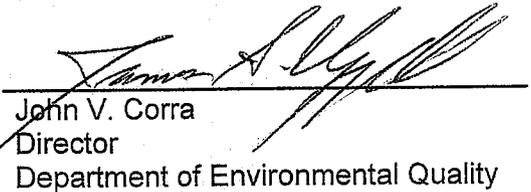
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by January 15th, 2010;
- If the initial discharge into the impoundment has not occurred by the quarterly report date, a groundwater compliance sample is not required for that quarterly period. The operator shall notify the DEQ that discharge has not occurred;

- If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.
- The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: DEQ-CBMGroundwater@WYO.GOV. In addition, the accompanying analytical laboratory reports and field documentation must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

4 of 4 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

10-9-09
Date of Issuance

CBS/rm/9-0894



GROUNDWATER PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1866 South Sheridan Avenue
Sheridan, WY 82801
Phone: 307-672-6457

PERMIT TYPE: CBM: Groundwater Compliance Monitoring Program

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 09-542

SITE (POD) NAME: Squaw Creek POD

APPLICANT: Pinnacle Gas Resources, Inc
Attn.: Mr. Terry Webster
1 E. Alger St, Suite 206
Sheridan, WY 82801

LOCATION: Drainage: Squaw Creek, tributary to Horse Creek,
tributary to Little Powder River, tributary to Powder
River
County: Campbell
Township 55 North; Range 73 and 74 West

WYPDES No: Discharge Permit: WY0053651

DATE ON REPORT: September 24, 2009

REVIEWING OFFICIAL: Carrie Steinhorst, North District Project Geologist

DATE OF THIS REVIEW: October 5, 2009

ACTION: Compliance Monitoring Plan authorized for multiple Reservoirs
pursuant to conditions on permit # 09-542.

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

1.1 Site Description.

Watershed Name: Squaw Creek, tributary to Horse Creek, tributary to Little Powder River, tributary to Powder River

Groundwater Classification:

Class 1 (domestic) _____
Class 2 (agricultural) _____
Class 3 (livestock) 5

Basis for Classification: Laboratory analysis of groundwater indicates ambient water quality meets Water Quality Rules and Regulations Chapter 8 Class III standards and exceeds both Class I and Class II standards for Sulfate, total dissolved solids (TDS) and/or sodium adsorption ratio (SAR) (Table 1- Chapter 8).

Table 1. Basis for Ground Water Classification by impoundment Name covered under Permit 09-542

Impoundment Name	Compliance Monitoring Well	Sulfate (mg/L)	TDS (mg/L)	SAR
Enlarged Stallion	Enlarged Stallion MW-1	2370	3660	1.9
Brown Cow	Brown Cow MW-1	20	880	12.1
Prairie Dog	Prairie Dog MW-1	1060	2250	3.5
Shaggy Sheep	Shaggy Sheep MW-1	160	1440	11.7
Leon #1	Leon #1 MW-1	1320	2310	0.2

Description of Hydrogeology:

The first groundwater occurrence in the monitoring well associated with the Enlarged Stallion impoundment is in oxidized unconsolidated sand, screened from 10 to 20 ft below ground surface (BGS). The shallow aquifer underlying the Enlarged Stallion impoundment exhibits unconfined conditions. Monitoring well Enlarged Stallion MW-1 is therefore considered to be appropriately located to monitor groundwater quality.

The first groundwater occurrences in monitoring wells associated with the Brown Cow, Shaggy Sheep, and Prairie Dog impoundments are in coal ranging in depth from 36 to 102 ft BGS, ranging in thickness from 25 to 35 ft, and exhibiting pressure head ranging from 22 to 76 ft. Groundwater flow direction is approximately N70E, with a gradient of .0085. The Brown Cow and Prairie Dog impoundments have associated monitoring wells that are appropriately located to monitor groundwater quality. The Shaggy Sheep impoundment has only one associated monitoring well, located south of the impoundment. Pinnacle Gas

Resources proposes monitoring the existing well and drilling another well, located northeast of the impoundment, only if changes in groundwater quality are detected in the aquifer underlying the Brown Cow impoundment. The WDEQ/WQD Groundwater Section staff agrees that the likelihood of water infiltrating and reaching groundwater beneath the Brown Cow impoundment is greater than at the Shaggy Sheep impoundment based on depth to the water-bearing zone (36 ft vs. 102 ft) and confining head (22 ft vs. 36 ft), respectively.

The first groundwater occurrence in the monitoring well associated with the Leon #1 impoundment is believed to be in coal, screened from 40 to 60 ft BGS. A well completion form and lithology log are not available for the monitoring well; however the WDEQ/WQD Groundwater Section believes that reasonable assumptions regarding well construction details can be deduced from the driller's record and static water levels. Based on the potentiometric surface of groundwater in multiple wells completed in correlative coal, monitoring well Leon #1 MW-01 is determined to be appropriately placed to monitor groundwater quality.

Table 2. Names of Impoundments covered under Permit 09-542

Impoundment Name	Capacity (acre/ft)	Qtr Qtr	Section	Town.	Range	Down gradient Monitoring Well
Enlarged Stallion	5.34	SENE	32	55	73	Enlarged Stallion MW-1
Brown Cow	36.14	NENE	33	55	73	Brown Cow MW-1
Prairie Dog	4.83	NWNW	29	55	73	Prairie Dog MW-1
Shaggy Sheep	9.95	SESW	26	55	73	Shaggy Sheep MW-1
Leon #1	15.29	SWSW	24	55	74	Leon #1 MW-1

No other domestic, agricultural or livestock wells are noted in the immediate area that will be impacted. No seeps or springs are noted in the immediate area.

2.0 MONITORING AND REPORTING REQUIREMENTS

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water elevation in all monitoring wells: Enlarged Stallion MW-1, Brown Cow MW-1, Prairie Dog MW-1, Shaggy Sheep MW-1, and Leon #1 MW-1;
- Sampling and analysis of groundwater at down-gradient wells: Enlarged Stallion MW-1, Brown Cow MW-1, Prairie Dog MW-1, Shaggy Sheep MW-1, and Leon #1 MW-1;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

Enlarged Stallion

Parameter	Enlarged Stallion MW-1 Background Value (mg/L) (5/20/2005)	Class III Water Quality Standards (mg/L)
Arsenic	.048	0.2
Selenium	ND	0.05
Sulfate	2370	3000
TDS	3660	5000
pH	7.9	6.5 – 8.5 (s.u)

Brown Cow

Parameter	Brown Cow MW-1 Background Value (mg/L) (5/20/2005)	Class III Water Quality Standards (mg/L)
Arsenic	.01	0.2
Selenium	ND	0.05
Sulfate	20	3000
TDS	880	5000
pH	8.3	6.5 – 8.5 (s.u)

Prairie Dog

Parameter	Prairie Dog MW-1 Background Value (mg/L) (?)	Class III Water Quality Standards (mg/L)
Arsenic	.025	0.2
Selenium	ND	0.05
Sulfate	1060	3000
TDS	2250	5000
pH	7.7	6.5 – 8.5 (s.u)

Shaggy Sheep

Parameter	Shaggy Sheep MW-1 Background Value (mg/L) (5/20/2005)	Class III Water Quality Standards (mg/L)
Arsenic	.022	0.2
Selenium	ND	0.05
Sulfate	160	3000
TDS	1440	5000
pH	8.2	6.5 – 8.5 (s.u)

Leon #1

Parameter	Leon #1 MW-1 Background Value (mg/L) (4/17/2006)	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	1320	3000
TDS	2310	5000
pH	7.9	6.5 – 8.5 (s.u)

- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by January 15th, 2010;
- If the initial discharge into the impoundment has not occurred by the quarterly report date, a groundwater compliance sample is not required for that quarterly period. The operator shall notify the DEQ that discharge has not occurred;
- If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.
- The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: DEQ-CBMGroundwater@WYO.GOV. In addition, the accompanying analytical laboratory reports and field documentation must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

END OF REVIEW

CBS/rm/9-0894



The State
of Wyoming



Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

November 27, 2009

Chairman
Sheridan County Commissioners
224 S. Main, Suite B1
Sheridan, WY 82801

RE: Lewallen Minor Subdivision, Sheridan County
WDEQ Application #09-543

Dear Commissioners:

This subdivision application was received in this office on September 30, 2009. The Department of Environmental Quality is required by law to respond with comments within 60 days after receipt of the application as described in W.S. §18-5-306 (c). Due to incomplete and/or missing information, we are unable to make a determination at this time of the safety and adequacy of the proposed water and sewer systems. As a result, the 60-day time statute as defined in W.S. §18-5-306 has expired. The statute does not allow the extension of the 60 day completion date even with the consent of all parties.

Recommendation:

The Department of Environmental Quality is making an adverse recommendation for the Lewallen Minor Subdivision, Sheridan County, Department of Environmental Quality / Water Quality Division Application #09-543. This recommendation is provided pursuant to W.S. §18-5-306.

Re-submittal:

If the County Commissioners desire a determination of the safety and adequacy of the proposed water and sewer systems from the Department of Environmental Quality, the developer should re-submit the **complete** application with the additional information necessary. The submittal will be assigned a new application number with a new 60 day clock.

Please feel free to contact me at (307) 473-3478 should you have any questions related to these comments or the application and review process.

Sincerely,

Karen L. Farley, P.E.
WDEQ/WQD Northeast District Supervisor

cc: Andy and Linda Lewallen, 37 Metz Road, Sheridan, WY 82801
Tom Pilch, P.E./PG., Pilch Engineering, 41 East Burkitt Street, Sheridan, WY 82801
Sheridan County Engineer, 224 S. Main Street, Ste B8, Sheridan, WY 82801
Mike Ebsen, SEO
WDEQ Subdivision file, (IPS) Cheyenne

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450
Fax: (307) 473-3458

AIR QUALITY DIVISION
(307) 473-3455
Fax: (307) 473-3458

WATER QUALITY DIVISION
(307) 473-3465
Fax: (307) 473-3458



WDEQ COMMENTS

Safety and Adequacy of Proposed Sewage System

- 1) Chapter 23, Section 7(a)(ii) – The report states that there is an existing dwelling within the subdivision and the septic system permit is included in the report. The report further states that high groundwater exists in Lot 3, which is where this existing dwelling is located. However, the existing permit information states that groundwater is at 7 feet below ground surface. The permit also states that the soil is “clay”, yet the report states that the entire subdivision is comprised of alluvial deposits. Is the existing system mounded? If so, please provide an evaluation of the existing system for safety and adequacy and impact to groundwater. If not, please discuss why the existing system is not mounded, and how this may have an impact on groundwater and the planning of future proposed systems within the subdivision.
- 2) The submitted report stated that the NRCS soil report had not been completed at the time of the drafting of the report, but would be forwarded under separate cover. Please be advised that we have not received the report as of the date of this review.
- 3) Chapter 23, Section (d)(vii)(C)(I)(1.) – A listing of the existing wells permitted through SEO is provided in the report (many are shown to be permitted in the adjacent Sheri View Subdivision); however, a map “...illustrating well names and locations relative to the proposed subdivision;” was not. Please provide.
- 4) Chapter 23, Section 7(d)(viii)(A) and (B) – The analysis provided in the report shows that the horizontal distance is 90 feet and the vertical travel time is only 7 days. However, the recommendations given did not provide for an this separation to property lines – only 50 feet was stated. Further, it is not clear whether or not groundwater will be protected given the types of soils in the area and the proposed fill material for the mounds (sand). The given percolation rate for the existing septic system on Lot 3 is 9 minutes per inch (mpi), and the native soils are given as 10 mpi; however, the report states that the imported material will have a percolation rate faster than the native soils. It appears that enhanced systems may be a better choice for this area. Please discuss.



Department of Environmental Quality



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

Dave Freudenthal, Governor

John Corra, Director

October 11, 2009

09-545

Thunder Basin Coal Company, LLC.
Coal Creek Mine
P.O. Box 406
Wright, WY 82732
Attn: Ms. Monica Williams

Re: Thunder Basin Coal Company, Coal Creek Mine, Campbell County, Wyoming

Dear Ms. Monica Williams,

The Wyoming Department of Environmental Quality, Water Quality Division, has authorized the installation of additional monitoring wells in response to a diesel fuel spill which occurred during May 2007 at the above referenced facility. Enclosed, please find a "Permit To Construct" and a "Groundwater Pollution Control Review" conducted by the Wyoming Department of Environmental Quality (DEQ), Water Quality Division, Groundwater Pollution Control Program of the remediation and monitoring activities completed at the Coal Creek Mine facility.

Monitoring and Reporting requirements are described on page 10 of the Review. After the plume has been further delineated, additional investigative and remedial activities may be required.

If you have any questions about this review, please contact me or Don Fischer at (307)673-9337.

Sincerely,

Brent Baumann
North District Geologic Project Analyst
Wyoming DEQ/Groundwater Section

Enclosure: GPC Permit & Review
Chron & File

PAZ BONES





WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 09-545

Coal Creek Mine

This permit hereby authorizes the applicant:

Thunder Basin Coal Company, LLC
Coal Creek Mine
Attn.: Ms. Monica Williams
P.O. Box 406
Wright, WY 82732

to install monitoring wells according to the procedures and conditions of the application number 09-545. The facility is located at the Coal Creek Mine facility in the northeast ¼ of Section 17, Township 46N, Range 70W, in the county of Campbell, in the State of Wyoming. All construction, installation, or modification of monitoring wells allowed by this permit shall be completed by November 1, 2011.

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.

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 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:

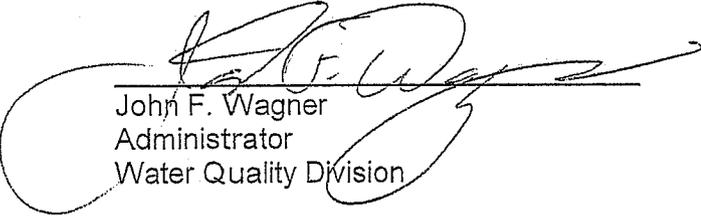
1 of 2: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Wyoming Water Quality Rules and Regulations Chapter 3, Section 11, of any changes or modifications which are not consistent with the terms and conditions of this permit.

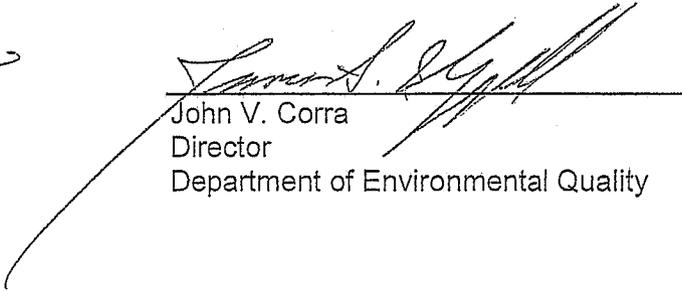
2 of 2: Monitoring and Reporting Requirements:

Monitoring and reporting of the groundwater shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water levels and/or level of free phase hydrocarbons, if present, in all new wells installed under this permit.
- If free phase hydrocarbons are not present in the new wells, analyses for Total Petroleum Hydrocarbons - Diesel Range Organics (TPH-DRO) by EPA Method 8015 Modified.
- Measurement of static water elevation in wells: MW#1, MW #5, DW#1, DW #2 and DW #3.
- Measurement of free phase hydrocarbons in wells: MW#1, MW #5, DW#1, DW #2 and DW #3.
- If free phase hydrocarbons are not present, analyses for Total Petroleum Hydrocarbons, diesel range organics in wells: MW#1, MW #5, DW#1, DW #2 and DW #3.
- Volume of hydrocarbons recovered in wells: DW# 4, DW#5, DW#6, and DW#7.
- Results of quarterly monitoring and sampling shall be submitted to the WDEQ, Sheridan Office, Groundwater Section, by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data under this permit is due by January 15th, 2010.

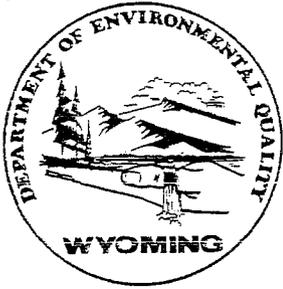
AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

10-9-09
Date of Issuance

WDF/rm/9-0893



GROUNDWATER POLLUTION CONTROL PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1866 SOUTH SHERIDAN AVENUE
Sheridan, WY 82801
307-673-9337

PROJECT: Investigation
FACILITY: Coal Creek Mine Diesel Spill
APPLICANT: Thunder Basin Coal Company, LLC.
Coal Creek Mine
P.O. Box 406
Wright, WY 82732
Attn: Ms. Monica Williams

CONSULTANT: N/A

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 09-545
 EXISTING NEW AS-BUILT

TITLE: Coal Creek Mine Monitoring Well Installation

PLANS SPECS PROPOSAL REPORT

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING OFFICIAL: Don Fischer, District Geologic Supervisor, Groundwater Section

DATE OF THIS REVIEW: October 11, 2009

ACTION: Permit to Construct 09-545 authorized

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY

1.1 Site Description

The Coal Creek Mine is located approximately 25 miles south of Gillette, Wyoming in the NE1/4 Section 17/Township 46 North/Range 70 West (43.50363° North Latitude, -105.16554° West Longitude). Buildings and support facilities include an administration building, warehouse, maintenance shop, mechanical and electrical shop, change house, guard house and utility house. Production facilities include a hopper, primary crusher and dust collector, secondary crusher, train load out building, coal storage silos, coal boiler in utility building, above ground diesel fuel storage tanks and dikes. Sediment control ponds are also located on the property.

1.2 Site History

On May 6, 2007 Coal Creek Mine personnel discovered a leak in the 60-foot underground pipeline running from the above ground diesel storage tanks to the fueling island. The WDEQ was contacted on May 7, 2007. On May 8, 2007, Matheson Drilling was mobilized to the facility to install several wells for investigation and recovery purposes. On May 14, 2007 Mr. Craig Toal, WDEQ/WQD conducted a site visit to review the mine's diesel spill recovery plan.

Nine of thirteen wells were drilled in May 2007 during the initial investigation including: MW-1 through MW-4, and DW-1 through DW-5. Three additional wells were installed during August 2007: DW-6, DW-7 and MW-5. An additional well (DW-8) was installed during November 2008. Free product hydrocarbon (FPH) levels were measured in this well during the November and December 2008 monitoring events. However, this well was apparently abandoned sometime following the December 2008 monitoring event due to collapsing. Two additional monitoring wells, MW-6 and MW-7, were recently installed during April 2009 to determine if FPHs are present in groundwater near the original release site and 1000 feet (ft) west-northwest further downgradient from the release site.

Seven wells are utilized as monitoring wells: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7. Three wells, DW-1, DW-2 and DW-3, are used as dewatering wells. According to the *Coal Creek Mine Diesel Remediation Plan*, these wells were completed to create a cone of depression in the vicinity of the recovery wells. Four recovery wells were installed downgradient of the release site. These wells are identified as DW-4 through DW-7.

2.0 GEOLOGY

Near surface deposits in the vicinity of the Coal Creek Mine generally consist of Quaternary alluvial deposits of unconsolidated clay, silt and sand. Cross-sections of the area also indicate these silty to sandy finer grained near surface deposits are underlain by thin basal gravel deposits. The upper 1-2 feet (ft) of these near surface sediments are generally mapped as sheet wash alluvium and colluvium of the Fort Union Formation.

These near surface alluvial deposits are underlain by the Eocene age, Wasatch Formation. In the Powder River Basin, the Wasatch formation is composed primarily of interbedded sedimentary deposits of grayish brown sandstone, siltstone, claystone, coal stringers and scoria. The Wasatch formation has an average thickness of approximately 100 ft in the Coal Creek permit area.

Clinker (scoria) formed by the prehistoric burning of the Wyodak-Anderson coal seam east of the Powder River, caps a number of buttes and knobs northwest, west and south of Gillette, Wyoming (*Origin And Geomorphology Of Clinker In The Powder River Basin, Wyoming And Montana*, Donald A Coates and Edward L. Heffern). Scoria is present along the eastern and northern edges and in scattered pods within the Coal Creek permit area. A large pod of isolated scoria has also been identified and mapped along the southern edge of the Coal Creek Mine facilities.

Based on drill cutting descriptions provided by Coal Creek Mine, the scoria which underlies most of the mine facility, ranges from approximately 35 ft along the eastern edge of the mine facility to between 90 and 100 ft below ground surface (bgs) near the eastern edge of the mined out backfilled area. To the north of the mine facilities the scoria ranges from 35 to 75 ft bgs. According to drill logs, the scoria is generally underlain by deposits of sandy to silty clay grading to claystone and shale.

The Wasatch deposits are underlain by the Paleocene Fort Union Formation, which is generally comprised of non-marine sandstone, sandy or silty shale, carbonaceous shale, and coal. The formation has been divided into lower, middle and upper units. The upper unit or Tongue River Member contains the Wyodak-Anderson and Big George coals mentioned above.

3.0 Hydrogeology

3.1 Regional Hydrogeology

According to the "Coal Creek Mine Diesel Remediation Plan", March 2009, the regional groundwater flow direction is to the west. However, it is unclear whether or not this refers to the water bearing zone contained in the scoria or deeper water

bearing zones observed in the coal at the base of the Wasatch formation and upper units of the Fort Union formation.

The amount of hydraulic connection under natural conditions between the Wyodak-Anderson coalbed aquifer and scoria and sandstone lenses comprising aquifers in the overlying Wasatch and Fort Union formations is unclear. The Wyodak-Anderson coalbed aquifer is anisotropic; ground-water flow primarily occurs through fractures (cleats) in the coal bed. Flow direction in this aquifer may change where the coal beds split into other beds and is interbedded with other lithological units and where differences in the distribution and density of the fractures in the coal occurs (Martin and others, 1988).

Regional potentiometric surface maps indicate recharge to the coal bearing zones of the Wasatch and Fort Union formations may occur from outcrop and scoria areas to the east of the Coal Creek Mine permit area. Water bodies present in clinker deposits in the vicinity of the Coal Creek Mine may act as recharge media to surrounding overburden, coal, and alluvial units. The scoria deposits show a wide range of transmissivities, but for the most part are highly permeable. Groundwater appears to be unconfined throughout most of the Coal Creek Mine property, except in the northern portion of the site where water bearing units include both coal and scoria, which are overlain by clay.

3.2 Site Hydrogeology

Water level measurements have been recorded in the five monitoring wells, three dewatering wells and four product recovery wells since they were installed at the facility. According to water level data measured by Coal Creek Mine personnel, the depth to water ranges from 34 feet bgs in MW-3 along the northern portion of the facility, to 80 ft bgs, as measured in MW-5, near the southern boundary of the facility. However, due to the difference in measured depths to water in the north and southern portions of the Coal Creek Mine property, the water bearing sediments encountered in the southern portion of the property do not appear to be hydraulically connected to the water bearing sediments encountered in the northern portion of the site.

Based on drill logs supplied by Coal Creek Mine, the water bearing zone beneath the facility is located in scoria at an elevation of:

- 4631.5 ft in MW-6 on the east side of the Coal Creek Mine site near the diesel tank.
- 4621.5 ft in MW-7 approximately 1000 ft west-northwest of MW-6.
- 4599.1 ft in DW-5 approximately 1500 ft west of DW-6.

This represents a drop in groundwater elevation of 32.4 ft per 1500 ft or .022 feet per foot from east to west across the site. Most of the drop in elevation occurs

between MW-7 and DW-5 over a distance of 500 ft. This represents a gradient of .045 feet per foot. Based on these calculations, the groundwater gradient is twice as steep on the west side of the facility as it is across the eastern and middle portion of the facility.

Another factor affecting the hydrogeology along the western portion of the Coal Creek Mine facility is the contact zone between the scoria pod identified above and the backfill in the mined out area. It appears groundwater flow through the scoria beneath the Coal Creek Mine site is very rapid, similar to fracture flow through very porous media until contact with the backfilled mined out area. Based on observation and examination of the percentage of sand, silt and clay contained in the native materials used to backfill the mined out area, the re-mixed backfill material is predominantly composed of clay, with lesser amounts of silt, sand and gravels. Therefore the overall permeability of this backfill material will be considerably less than the scoria to the east.

In addition, the method of backfill emplacement will affect porosity and permeability of backfilled materials along the scoria/backfill contact zone in the western portion of the site. Backfill emplaced by dump trucks and shovels will segregate as it is dumped with coarser gravels and sands accumulating along the bottom edges of the dump piles. When the backfill material is graded with a caterpillar and "proof rolled" to obtain minimal compaction and a smooth and level surface, a great variation in compaction and porosity and permeability of the backfilled material is possible. Subsidence due to differential settlement along the contact zone of native materials and un-compacted backfilled materials is common along with zones of increased porosity and permeability.

According to the *Contamination Summary* of Section III, March 2009 Coal Creek Mine Diesel Remediation Plan, "*the western edge of the plume is contained by an area of backfill that contains abundant clay*". For this assumption to be accurate, the backfilled materials would need to be emplaced in equal lifts and compacted to the same value as the native, undisturbed (in situ) clayey soil materials. If the method of emplacement and compaction was not sufficient to obtain the compaction values observed in the native undisturbed clay material, it is possible that some groundwater is moving through the less compacted backfill into areas of segregated backfill. Furthermore, it is also probable that groundwater is migrating downward along the contact zone and intercepting sandstone, shale or coal contained in the upper unit of the Fort Union formation beneath the Wasatch.

In summary, the WDEQ suggests one or all of the following scenarios may be affecting groundwater flow beneath the Coal Creek Mine:

- Groundwater mounding may be occurring along the contact zone due to differences in porosity and permeability of scoria and the clayey backfill material.

- Groundwater may be migrating north and south laterally along the contact zone due to differences in porosity and permeability of scoria and the clayey backfill material.
- Groundwater may be migrating downward along the contact zone and intercepting sandstone, shale or coal at the base of the Wasatch formation.
- Some groundwater may be migrating westward through preferential pathways in the backfilled area as a result of segregation and minimal compaction of the backfill.

4.0 MONITORING & REMEDIATION

4.1 Monitoring Wells

Monthly monitoring at the five existing monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5) indicate free product hydrocarbons (FPH) have not been detected in groundwater in these wells. In addition, FPH have not been detected in MW-6 or MW-7, which were recently installed in April 2007 near the release site and 1000 ft downgradient from the release site. The approximate locations and distances from the release site are indicated below:

- Monitoring well MW-1 was installed approximately 3308 ft northwest of the release site.
- Monitoring wells MW-2, MW-3 and MW-4 were installed approximately 4100 ft northwest of the release site along the northern border of the property.
- Monitoring well MW-5 was installed approximately 1370 ft southwest of the release site.
- Monitoring well MW-6 was installed approximately 100 ft north of the diesel tank.
- Monitoring well MW-7 was installed approximately 1000 ft northwest of the diesel tank.

Since monitoring wells MW-2 through MW-4 are all located in excess of 3000 ft northwest of the release site and are cross gradient to measured groundwater flow, FPH would not be expected in these wells. However, FPHs have also never been detected in MW-5, which is located approximately 200 ft south of DW-6 along the southern portion of the site. Approximately 0.5 ft of FPHs have been measured in DW-6 since August 2007. This data appears to indicate the southern edge of the FPH plume is located between MW-5 and DW-6.

Since FPHs were not detected in MW-6 or MW-7 during April 2009 after they were installed, either the FPH plume has migrated further west and is impacting groundwater in the vicinity of DW-4, DW-8, DW-7 and DW-6 and beyond or the northern edge of the FPH plume is located south of MW-6 and MW-7.

4.2 Dewatering Wells

According to the *Coal Creek Mine Diesel Recovery Plan*, past monitoring of Recovery Wells DW-1 through DW-3 indicate FPHs are not present in these wells. Recovery wells DW-2 and DW-3 are located approximately 1300 ft north and approximately 1850 ft west of the release site. Unless groundwater is flowing in a general northwest direction, groundwater in the vicinity of these two cross gradient wells should not be impacted. However, a concentration of 2.2 mg/L for diesel range organics (TPH-dro) was detected in a groundwater sample collected from DW-1 on June 30, 2008. DW-1 is located less than 175 ft northeast of DW-4, which contains over 0.5 ft of FPH.

According to the Coal Creek report, during late September and early October 2008, water levels increased in the monitoring and recovery wells. During this same period, FPH levels were not measureable in DW-5 and DW-6. In response, Coal Creek Mine personnel pumped a total of 828,000 gallons of water from DW-1 into the SP-1 reservoir to lower the water table and reestablish a cone of depression.

As a result of pumping, water level data from late October 2008 for DW-5, DW-6 and DW-7 indicates water levels decreased by nearly four inches. Corresponding to dropping water levels, FPH levels were again measured in DW-5 and DW-6. FPH levels also increased in DW-7 by more than an inch.

4.3 Recovery Wells

Monthly monitoring data indicates FPH levels have averaged approximately 0.5 ft in wells DW-4, DW-5, DW-6, DW-7 and DW-8 since they were installed. DW-4 is located approximately 175 ft southwest of DW-1 and DW-5 is located approximately 650 ft southeast of DW-1, directly downgradient from the release site. DW-6 and DW-7 are located less than 100 ft east and southeast of DW-5. DW-8 is located approximately 1400 ft west and slightly north of the initial release site.

5.0 SUMMARY OF CONTAMINATION

5.1 Free Phase Hydrocarbons

Based on the discussions above, the northern edge of the FPH plume in the vicinity of DW-4 is located somewhere between DW-1 and DW-4. The southern edge of the FPH plume is located DW-6 and MW-5. The east and western edges of the FPH have not been determined. However, it is assumed the east edge of the FPH plume is located somewhere between the original release site and DW-5.

Coal Creek Mine personnel believe the plume is contained in an isolated scoria pod shown on the facility map. Furthermore, Coal Creek Mine personnel state, *"the western edge of the plume is contained by an area of backfill that contains abundant clay."* There is no evidence to substantiate this statement. The rate of migration of FPHs cannot be calculated since Coal Creek personnel do not know when the leak originated in the underground piping or the quantity of diesel fuel released into subsurface materials.

In addition, monitoring wells have not been drilled to collect water or soil samples in the *mined out backfilled area* to determine if contamination is migrating further west. However, since up to 0.5 ft of FPHs are contained in dewatering wells DW-4, DW-5, DW-6 and DW-7, it is likely the FPH plume has migrated further west and intersected the *backfilled mined out area*. If the "abundant clays" of the mined and backfilled area have prevented migration to the west, it is likely the FPH are either migrating vertically down at this contact or are pooling at the contact and migrating laterally north and/or south.

In addition, Coal Creek Mine personnel state, *"Monitoring wells both to the north and the south do not show any diesel, thus confirming the diesel plume is confined"*. As stated by WDEQ personnel in Section 3.1 above, *"Since monitoring wells MW-2 through MW-5 are all located in excess of 3000 ft from the release site and are cross gradient to inferred groundwater flow, FPH would not be expected in these wells"*. Based on a lack of FPHs detected in MW-6, MW-7 and DW-1, it appears that the northern edge of the FPH plume is south of the wells. Furthermore, since FPHs have not been detected in MW-5, it appears the FPH diesel plume is not presently migrating to the south of DW-6. Based on this data, it appears that the FPH diesel plume is confined to some point north of MW-5.

In addition to the data presented above, examination of satellite imagery and topographic maps of the area, as well as site observation by WDEQ Land Quality personnel, the Coal Creek Mine facilities were constructed on top of a historic ephemeral drainage. The historic drainage runs west through the facility and then northwest through the rail loop. Fill material was apparently placed in the drainage feature to create building pads and level out the area.

Drainages in the vicinity of the Coal Creek Mine are typically characterized by deposits of alluvial materials including some gravel to cobble sized rocks. Generally speaking, these alluvial sediments have a hydraulic conductivity of approximately $10^{-1} - 10^{-3}$ cm/sec, in comparison to the sediments associated with the Wasatch and Fort Union formations, which may have lower hydraulic conductivity values in the range of $10^{-3} - 10^{-6}$ cm/sec. This difference in hydraulic conductivities may have influenced the FPH diesel plume and initiated preferential

migration northwest along the historic ephemeral drainage. Based on this information, FPHs may have impacted groundwater along the above mentioned channel.

5.2 Dissolved Phase Hydrocarbons

Coal Creek Mine personnel collected groundwater samples from MW-5 on May 20, 2008 and from DW-1 and DW-2 on June 30, 2008. These samples were analyzed for the presence of TPH-dro. These samples were collected in response to a request from the WDEQ in a letter dated April 15th, 2008, to assist in the delineation of a dissolved phase hydrocarbon plume. Analytical results indicate a concentration of 2.2 mg/L TPH-dro was present in a groundwater sample collected from DW-1. Concentrations of TPH-dro were not detected in samples collected from MW-5, located on the southern portion of the property, or in DW-2, which is located north of DW-1.

Based on analytical results of samples collected in these wells, the northern edge of the dissolved phase hydrocarbon plume appears to be located somewhere between DW-1 and DW-2. The southern edge of the dissolved phase hydrocarbon plume appears to be located between DW-6 and MW-5 (FPH are present in DW-6). Additional monitoring wells need to be installed to determine the lateral extent of the dissolved phase hydrocarbon plume on the western portion of the property. The eastern edge of the plume appears to be located in the near vicinity to the diesel fuel release site.

6.0 REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

6.1 Monitoring Well Installation:

In order to address the groundwater contamination at this facility, the WDEQ is requiring additional monitoring and investigative actions be implemented at this facility to further define the extent of contamination of the existing diesel FPH and dissolved phase hydrocarbon plumes. After the plumes have been delineated, Coal Creek Mine shall re-evaluate and modify remedial actions including free product removal and address remediation of contaminated soil and groundwater. Additional monitoring and remedial actions may include: installation of additional monitoring wells, contaminated soil removal, installation of an interception trench or trenches, installation of additional product recovery wells, and other remedial actions.

The WDEQ has identified the following areas which need to be addressed in order to more accurately delineate the existing free product plume and associated dissolved phase product plume:

- Installation of one additional monitoring well downgradient (west) of DW-6 and DW-7 to determine down gradient extent of hydrocarbon impacted groundwater and soil as a result of the FPH plume. This well will be drilled in the backfilled materials. If possible, core samples shall be collected at five foot intervals during drilling activities.
- Installation of one additional monitoring well northwest of the release site inside the rail loop along the historic ephemeral channel which runs through the rail loop area. Cutting samples will be collected at five foot intervals during drilling activities.
- Installation of at one additional monitoring well directly between the diesel tank (release site) and DW-5. Cutting samples will be collected at five foot intervals during drilling activities.

6.2 Monitoring and Reporting Requirements:

As required in new permit number 09-545 and as-built permit 09-377, monitoring and reporting of the groundwater shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water elevations and/or level of free phase hydrocarbons, if present, in all new wells installed under permit 09-545.
- If free phase hydrocarbons are not present in the new wells, analyses for Total Petroleum Hydrocarbons - Diesel Range Organics (TPH-DRO) by EPA Method 8015 Modified.
- Measurement of static water elevations in wells: MW#1, MW #5, DW#1, DW #2 and DW #3.
- Measurement of free phase hydrocarbons in wells: MW#1, MW #5, DW#1, DW #2 and DW #3.
- If free phase hydrocarbons are not present, analyses for Total Petroleum Hydrocarbons, diesel range organics in wells: MW#1, MW #5, DW#1, DW #2 and DW #3.
- Solar Sipper recovery pump units are currently installed in wells DW-4 through DW-7. The volume of hydrocarbons recovered from wells DW-4 through DW-7.
- Results of quarterly monitoring and sampling shall be submitted to the WDEQ, Sheridan Office, Groundwater Section, by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data is due by January 15th, 2010 for new data under permit 09-545.

END OF REVIEW

WDF/rm/9-0893



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 09-545

Coal Creek Mine

This permit hereby authorizes the applicant:

Thunder Basin Coal Company, LLC
Coal Creek Mine
Attn.: Ms. Monica Williams
P.O. Box 406
Wright, WY 82732

to install monitoring wells according to the procedures and conditions of the application number 09-545. The facility is located at the Coal Creek Mine facility in the northeast $\frac{1}{4}$ of Section 17, Township 46N, Range 70W, in the county of Campbell, in the State of Wyoming. All construction, installation, or modification of monitoring wells allowed by this permit shall be completed by November 1, 2011.

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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.

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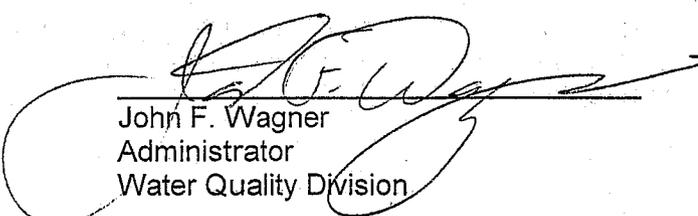
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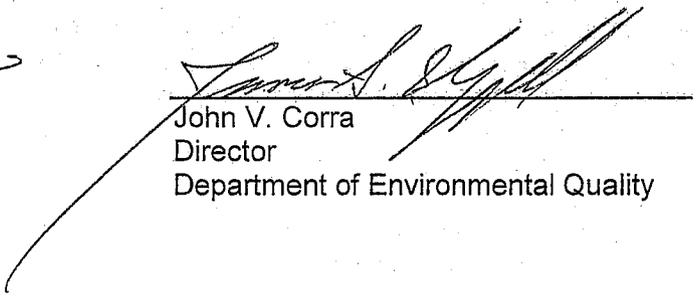
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AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

10-9-09
Date of Issuance

WDF/rm/9-0893



GROUNDWATER POLLUTION CONTROL PROGRAM
REVIEW COMMENTS:
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WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
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PROJECT: Investigation
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Attn: Ms. Monica Williams

CONSULTANT: N/A

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: **09-545**
 EXISTING NEW AS-BUILT

TITLE: Coal Creek Mine Monitoring Well Installation

PLANS SPECS PROPOSAL REPORT

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING OFFICIAL: Don Fischer, District Geologic Supervisor, Groundwater Section

DATE OF THIS REVIEW: October 11, 2009

ACTION: Permit to Construct 09-545 authorized

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY

1.1 Site Description

The Coal Creek Mine is located approximately 25 miles south of Gillette, Wyoming in the NE1/4 Section 17/Township 46 North/Range 70 West (43.50363° North Latitude, -105.16554° West Longitude). Buildings and support facilities include an administration building, warehouse, maintenance shop, mechanical and electrical shop, change house, guard house and utility house. Production facilities include a hopper, primary crusher and dust collector, secondary crusher, train load out building, coal storage silos, coal boiler in utility building, above ground diesel-fuel storage tanks and dikes. Sediment-control ponds are also located on the property.

1.2 Site History

On May 6, 2007 Coal Creek Mine personnel discovered a leak in the 60-foot underground pipeline running from the above ground diesel storage tanks to the fueling island. The WDEQ was contacted on May 7, 2007. On May 8, 2007, Matheson Drilling was mobilized to the facility to install several wells for investigation and recovery purposes. On May 14, 2007 Mr. Craig Toal, WDEQ/WQD conducted a site visit to review the mine's diesel spill recovery plan.

Nine of thirteen wells were drilled in May 2007 during the initial investigation including: MW-1 through MW-4, and DW-1 through DW-5. Three additional wells were installed during August 2007: DW-6, DW-7 and MW-5. An additional well (DW-8) was installed during November 2008. Free product hydrocarbon (FPH) levels were measured in this well during the November and December 2008 monitoring events. However, this well was apparently abandoned sometime following the December 2008 monitoring event due to collapsing. Two additional monitoring wells, MW-6 and MW-7, were recently installed during April 2009 to determine if FPHs are present in groundwater near the original release site and 1000 feet (ft) west-northwest further downgradient from the release site.

Seven wells are utilized as monitoring wells: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7. Three wells, DW-1, DW-2 and DW-3, are used as dewatering wells. According to the *Coal Creek Mine Diesel Remediation Plan*, these wells were completed to create a cone of depression in the vicinity of the recovery wells. Four recovery wells were installed downgradient of the release site. These wells are identified as DW-4 through DW-7.

2.0 GEOLOGY

Near surface deposits in the vicinity of the Coal Creek Mine generally consist of Quaternary alluvial deposits of unconsolidated clay, silt and sand. Cross-sections of the area also indicate these silty to sandy finer grained near surface deposits are underlain by thin basal gravel deposits. The upper 1-2 feet (ft) of these near surface sediments are generally mapped as sheet wash alluvium and colluvium of the Fort Union Formation.

These near surface alluvial deposits are underlain by the Eocene age, Wasatch Formation. In the Powder River Basin, the Wasatch formation is composed primarily of interbedded sedimentary deposits of grayish brown sandstone, siltstone, claystone, coal stringers and scoria. The Wasatch formation has an average thickness of approximately 100 ft in the Coal Creek permit area.

Clinker (scoria) formed by the prehistoric burning of the Wyodak-Anderson coal seam east of the Powder River, caps a number of buttes and knobs northwest, west and south of Gillette, Wyoming (*Origin And Geomorphology Of Clinker In The Powder River Basin, Wyoming And Montana*, Donald A Coates and Edward L. Heffern). Scoria is present along the eastern and northern edges and in scattered pods within the Coal Creek permit area. A large pod of isolated scoria has also been identified and mapped along the southern edge of the Coal Creek Mine facilities.

Based on drill cutting descriptions provided by Coal Creek Mine, the scoria which underlies most of the mine facility, ranges from approximately 35 ft along the eastern edge of the mine facility to between 90 and 100 ft below ground surface (bgs) near the eastern edge of the mined out backfilled area. To the north of the mine facilities the scoria ranges from 35 to 75 ft bgs. According to drill logs, the scoria is generally underlain by deposits of sandy to silty clay grading to claystone and shale.

The Wasatch deposits are underlain by the Paleocene Fort Union Formation, which is generally comprised of non-marine sandstone, sandy or silty shale, carbonaceous shale, and coal. The formation has been divided into lower, middle and upper units. The upper unit or Tongue River Member contains the Wyodak-Anderson and Big George coals mentioned above.

3.0 Hydrogeology

3.1 Regional Hydrogeology

According to the "Coal Creek Mine Diesel Remediation Plan", March 2009, the regional groundwater flow direction is to the west. However, it is unclear whether or not this refers to the water bearing zone contained in the scoria or deeper water

bearing zones observed in the coal at the base of the Wasatch formation and upper units of the Fort Union formation.

The amount of hydraulic connection under natural conditions between the Wyodak-Anderson coalbed aquifer and scoria and sandstone lenses comprising aquifers in the overlying Wasatch and Fort Union formations is unclear. The Wyodak-Anderson coalbed aquifer is anisotropic; ground-water flow primarily occurs through fractures (cleats) in the coal bed. Flow direction in this aquifer may change where the coal beds splits into other beds and is interbedded with other lithological units and where differences in the distribution and density of the fractures in the coal occurs (Martin and others, 1988).

Regional potentiometric surface maps indicate recharge to the coal bearing zones of the Wasatch and Fort Union formations may occur from outcrop and scoria areas to the east of the Coal Creek Mine permit area. Water bodies present in clinker deposits in the vicinity of the Coal Creek Mine may act as recharge media to surrounding overburden, coal, and alluvial units. The scoria deposits show a wide range of transmissivities, but for the most part are highly permeable. Groundwater appears to be unconfined throughout most of the Coal Creek Mine property, except in the northern portion of the site where water bearing units include both coal and scoria, which are overlain by clay.

3.2 Site Hydrogeology

Water level measurements have been recorded in the five monitoring wells; three dewatering wells and four product recovery wells since they were installed at the facility. According to water level data measured by Coal Creek Mine personnel, the depth to water ranges from 34 feet bgs in MW-3 along the northern portion of the facility, to 80 ft bgs, as measured in MW-5, near the southern boundary of the facility. However, due to the difference in measured depths to water in the north and southern portions of the Coal Creek Mine property, the water bearing sediments encountered in the southern portion of the property do not appear to be hydraulically connected to the water bearing sediments encountered in the northern portion of the site.

Based on drill logs supplied by Coal Creek Mine, the water bearing zone beneath the facility is located in scoria at an elevation of:

- 4631.5 ft in MW-6 on the east side of the Coal Creek Mine site near the diesel tank.
- 4621.5 ft in MW-7 approximately 1000 ft west-northwest of MW-6.
- 4599.1 ft in DW-5 approximately 1500 ft west of DW-6.

This represents a drop in groundwater elevation of 32.4 ft per 1500 ft or .022 feet per foot from east to west across the site. Most of the drop in elevation occurs

between MW-7 and DW-5 over a distance of 500 ft. This represents a gradient of .045 feet per foot. Based on these calculations, the groundwater gradient is twice as steep on the west side of the facility as it is across the eastern and middle portion of the facility.

Another factor affecting the hydrogeology along the western portion of the Coal Creek Mine facility is the contact zone between the scoria pod identified above and the backfill in the mined out area. It appears groundwater flow through the scoria beneath the Coal Creek Mine site is very rapid, similar to fracture flow through very porous media until contact with the backfilled mined out area. Based on observation and examination of the percentage of sand, silt and clay contained in the native materials used to backfill the mined out area, the re-mixed backfill material is predominantly composed of clay, with lesser amounts of silt, sand and gravels. Therefore the overall permeability of this backfill material will be considerably less than the scoria to the east.

In addition, the method of backfill emplacement will affect porosity and permeability of backfilled materials along the scoria/backfill contact zone in the western portion of the site. Backfill emplaced by dump trucks and shovels will segregate as it is dumped with coarser gravels and sands accumulating along the bottom edges of the dump piles. When the backfill material is graded with a caterpillar and "proof rolled" to obtain minimal compaction and a smooth and level surface, a great variation in compaction and porosity and permeability of the backfilled material is possible. Subsidence due to differential settlement along the contact zone of native materials and un-compacted backfilled materials is common along with zones of increased porosity and permeability.

According to the *Contamination Summary* of Section III, March 2009 Coal Creek Mine Diesel Remediation Plan, "*the western edge of the plume is contained by an area of backfill that contains abundant clay*". For this assumption to be accurate, the backfilled materials would need to be emplaced in equal lifts and compacted to the same value as the native, undisturbed (in situ) clayey soil materials. If the method of emplacement and compaction was not sufficient to obtain the compaction values observed in the native undisturbed clay material, it is possible that some groundwater is moving through the less compacted backfill into areas of segregated backfill. Furthermore, it is also probable that groundwater is migrating downward along the contact zone and intercepting sandstone, shale or coal contained in the upper unit of the Fort Union formation beneath the Wasatch.

In summary, the WDEQ suggests one or all of the following scenarios may be affecting groundwater flow beneath the Coal Creek Mine:

- Groundwater mounding may be occurring along the contact zone due to differences in porosity and permeability of scoria and the clayey backfill material.

- Groundwater may be migrating north and south laterally along the contact zone due to differences in porosity and permeability of scoria and the clayey backfill material.
- Groundwater may be migrating downward along the contact zone and intercepting sandstone, shale or coal at the base of the Wasatch formation.
- Some groundwater may be migrating westward through preferential pathways in the backfilled area as a result of segregation and minimal compaction of the backfill.

4.0 **MONITORING & REMEDIATION**

4.1 **Monitoring Wells**

Monthly monitoring at the five existing monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5) indicate free product hydrocarbons (FPH) have not been detected in groundwater in these wells. In addition, FPH have not been detected in MW-6 or MW-7, which were recently installed in April 2007 near the release site and 1000 ft downgradient from the release site. The approximate locations and distances from the release site are indicated below:

- Monitoring well MW-1 was installed approximately 3308 ft northwest of the release site.
- Monitoring wells MW-2, MW-3 and MW-4 were installed approximately 4100 ft northwest of the release site along the northern border of the property.
- Monitoring well MW-5 was installed approximately 1370 ft southwest of the release site.
- Monitoring well MW-6 was installed approximately 100 ft north of the diesel tank.
- Monitoring well MW-7 was installed approximately 1000 ft northwest of the diesel tank.

Since monitoring wells MW-2 through MW-4 are all located in excess of 3000 ft northwest of the release site and are cross gradient to measured groundwater flow, FPH would not be expected in these wells. However, FPHs have also never been detected in MW-5, which is located approximately 200 ft south of DW-6 along the southern portion of the site. Approximately 0.5 ft of FPHs have been measured in DW-6 since August 2007. This data appears to indicate the southern edge of the FPH plume is located between MW-5 and DW-6.

Since FPHs were not detected in MW-6 or MW-7 during April 2009 after they were installed, either the FPH plume has migrated further west and is impacting groundwater in the vicinity of DW-4, DW-8, DW-7 and DW-6 and beyond or the northern edge of the FPH plume is located south of MW-6 and MW-7.

4.2 Dewatering Wells

According to the *Coal Creek Mine Diesel Recovery Plan*, past monitoring of Recovery Wells DW-1 through DW-3 indicate FPHs are not present in these wells. Recovery wells DW-2 and DW-3 are located approximately 1300 ft north and approximately 1850 ft west of the release site. Unless groundwater is flowing in a general northwest direction, groundwater in the vicinity of these two cross gradient wells should not be impacted. However, a concentration of 2.2 mg/L for diesel range organics (TPH-dro) was detected in a groundwater sample collected from DW-1 on June 30, 2008. DW-1 is located less than 175 ft northeast of DW-4, which contains over 0.5 ft of FPH.

According to the Coal Creek report, during late September and early October 2008, water levels increased in the monitoring and recovery wells. During this same period, FPH levels were not measureable in DW-5 and DW-6. In response, Coal Creek Mine personnel pumped a total of 828,000 gallons of water from DW-1 into the SP-1 reservoir to lower the water table and reestablish a cone of depression.

As a result of pumping, water level data from late October 2008 for DW-5, DW-6 and DW-7 indicates water levels decreased by nearly four inches. Corresponding to dropping water levels, FPH levels were again measured in DW-5 and DW-6. FPH levels also increased in DW-7 by more than an inch.

4.3 Recovery Wells

Monthly monitoring data indicates FPH levels have averaged approximately 0.5 ft in wells DW-4, DW-5, DW-6, DW-7 and DW-8 since they were installed. DW-4 is located approximately 175 ft southwest of DW-1 and DW-5 is located approximately 650 ft southeast of DW-1, directly downgradient from the release site. DW-6 and DW-7 are located less than 100 ft east and southeast of DW-5. DW-8 is located approximately 1400 ft west and slightly north of the initial release site.

5.0 SUMMARY OF CONTAMINATION

5.1 Free Phase Hydrocarbons

Based on the discussions above, the northern edge of the FPH plume in the vicinity of DW-4 is located somewhere between DW-1 and DW-4. The southern edge of the FPH plume is located DW-6 and MW-5. The east and western edges of the FPH have not been determined. However, it is assumed the east edge of the FPH plume is located somewhere between the original release site and DW-5.

Coal Creek Mine personnel believe the plume is contained in an isolated scoria pod shown on the facility map. Furthermore, Coal Creek Mine personnel state, *"the western edge of the plume is contained by an area of backfill that contains abundant clay."* There is no evidence to substantiate this statement. The rate of migration of FPHs cannot be calculated since Coal Creek personnel do not know when the leak originated in the underground piping or the quantity of diesel fuel released into subsurface materials.

In addition, monitoring wells have not been drilled to collect water or soil samples in the *mined out backfilled area* to determine if contamination is migrating further west. However, since up to 0.5 ft of FPHs are contained in dewatering wells DW-4, DW-5, DW-6 and DW-7, it is likely the FPH plume has migrated further west and intersected the *backfilled mined out area*. If the "abundant clays" of the mined and backfilled area have prevented migration to the west, it is likely the FPH are either migrating vertically down at this contact or are pooling at the contact and migrating laterally north and/or south.

In addition, Coal Creek Mine personnel state, *"Monitoring wells both to the north and the south do not show any diesel, thus confirming the diesel plume is confined"*. As stated by WDEQ personnel in Section 3.1 above, *"Since monitoring wells MW-2 through MW-5 are all located in excess of 3000 ft from the release site and are cross gradient to inferred groundwater flow, FPH would not be expected in these wells"*. Based on a lack of FPHs detected in MW-6, MW-7 and DW-1, it appears that the northern edge of the FPH plume is south of the wells. Furthermore, since FPHs have not been detected in MW-5, it appears the FPH diesel plume is not presently migrating to the south of DW-6. Based on this data, it appears that the FPH diesel plume is confined to some point north of MW-5.

In addition to the data presented above, examination of satellite imagery and topographic maps of the area, as well as site observation by WDEQ Land Quality personnel, the Coal Creek Mine facilities were constructed on top of a historic ephemeral drainage. The historic drainage runs west through the facility and then northwest through the rail loop. Fill material was apparently placed in the drainage feature to create building pads and level out the area.

Drainages in the vicinity of the Coal Creek Mine are typically characterized by deposits of alluvial materials including some gravel to cobble sized rocks. Generally speaking, these alluvial sediments have a hydraulic conductivity of approximately $10^{-1} - 10^{-3}$ cm/sec, in comparison to the sediments associated with the Wasatch and Fort Union formations, which may have lower hydraulic conductivity values in the range of $10^{-3} - 10^{-6}$ cm/sec. This difference in hydraulic conductivities may have influenced the FPH diesel plume and initiated preferential

migration northwest along the historic ephemeral drainage. Based on this information, FPHs may have impacted groundwater along the above mentioned channel.

5.2 Dissolved Phase Hydrocarbons

Coal Creek Mine personnel collected groundwater samples from MW-5 on May 20, 2008 and from DW-1 and DW-2 on June 30, 2008. These samples were analyzed for the presence of TPH-dro. These samples were collected in response to a request from the WDEQ in a letter dated April 15th, 2008, to assist in the delineation of a dissolved phase hydrocarbon plume. Analytical results indicate a concentration of 2.2 mg/L TPH-dro was present in a groundwater sample collected from DW-1. Concentrations of TPH-dro were not detected in samples collected from MW-5, located on the southern portion of the property, or in DW-2, which is located north of DW-1.

Based on analytical results of samples collected in these wells, the northern edge of the dissolved phase hydrocarbon plume appears to be located somewhere between DW-1 and DW-2. The southern edge of the dissolved phase hydrocarbon plume appears to be located between DW-6 and MW-5 (FPH are present in DW-6). Additional monitoring wells need to be installed to determine the lateral extent of the dissolved phase hydrocarbon plume on the western portion of the property. The eastern edge of the plume appears to be located in the near vicinity to the diesel fuel release site.

6.0 REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

6.1 Monitoring Well Installation:

In order to address the groundwater contamination at this facility, the WDEQ is requiring additional monitoring and investigative actions be implemented at this facility to further define the extent of contamination of the existing diesel FPH and dissolved phase hydrocarbon plumes. After the plumes have been delineated, Coal Creek Mine shall re-evaluate and modify remedial actions including free product removal and address remediation of contaminated soil and groundwater. Additional monitoring and remedial actions may include: installation of additional monitoring wells, contaminated soil removal, installation of an interception trench or trenches, installation of additional product recovery wells, and other remedial actions.

The WDEQ has identified the following areas which need to be addressed in order to more accurately delineate the existing free product plume and associated dissolved phase product plume:

- Installation of one additional monitoring well downgradient (west) of DW-6 and DW-7 to determine down gradient extent of hydrocarbon impacted groundwater and soil as a result of the FPH plume. This well will be drilled in the backfilled materials. If possible, core samples shall be collected at five foot intervals during drilling activities.
- Installation of one additional monitoring well northwest of the release site inside the rail loop along the historic ephemeral channel which runs through the rail loop area. Cutting samples will be collected at five foot intervals during drilling activities.
- Installation of at one additional monitoring well directly between the diesel tank (release site) and DW-5. Cutting samples will be collected at five foot intervals during drilling activities.

6.2 Monitoring and Reporting Requirements:

As required in new permit number 09-545 and as-built permit 09-377, monitoring and reporting of the groundwater shall be performed on a quarterly basis until further notice and shall include the following information:

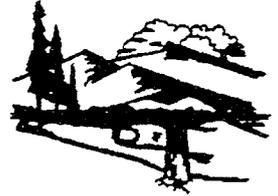
- Measurement of static water elevations and/or level of free phase hydrocarbons, if present, in all new wells installed under permit 09-545.
- If free phase hydrocarbons are not present in the new wells, analyses for Total Petroleum Hydrocarbons - Diesel Range Organics (TPH-DRO) by EPA Method 8015.Modified.
- Measurement of static water elevations in wells: MW#1, MW #5, DW#1, DW #2 and DW #3.
- Measurement of free phase hydrocarbons in wells: MW#1, MW #5, DW#1, DW #2 and DW #3.
- If free phase hydrocarbons are not present, analyses for Total Petroleum Hydrocarbons, diesel range organics in wells: MW#1, MW #5, DW#1, DW #2 and DW #3.
- Solar Sipper recovery pump units are currently installed in wells DW-4 through DW-7. The volume of hydrocarbons recovered from wells DW-4 through DW-7.
- Results of quarterly monitoring and sampling shall be submitted to the WDEQ, Sheridan Office, Groundwater Section, by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data is due by January 15th, 2010 for new data under permit 09-545.

END OF REVIEW

WDF/rm/9-0893



Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 7, 2009

Mr. Doug DeRouchey, General Manager
Wyoming Premium Farms
P.O. Box 457
Wheatland WY 82201

RE: WPF Site 60 Diffuser Pilot Plant, Application No.09-546, Platte County

Dear Mr. DeRouchey:

The above application for coverage under General Permit to Construct and Operate a Pilot Plant in accordance with Chapter 3, Section 7 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct and operate the pilot plant in accordance with Chapter 11, Section 5 of the Water Quality Division Rules and Regulations, 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. Please reference Application No.09-546 in any future correspondence.

The pilot plant operation shall be conducted in Lagoon 2, not Lagoon 1 as shown on the plans. Testing shall consist of paired ammonia and nitrate tests taken from the center of the zone of influence of the pilot aeration units and from the existing sampling point the greatest distance from the pilot test in the same lagoon. Tests shall be taken on a monthly basis and the result included in the monthly report currently submitted by WPF.

Sincerely,

Louis B. Harmon PE-PG
Water and Wastewater Program Manager
Water Quality Division

LBH/rm/9-0889

cc: IPS, Cheyenne

Ryan Riggs, AVI., 1103 Old Town Lane, Suite 101, Cheyenne, WY 82009

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ADMIN/OUTREACH
(307) 777-7937
FAX 777-3610

ABANDONED MINES
(307) 777-6145
FAX 777-6462

AIR QUALITY
(307) 777-7391
FAX 777-5616

INDUSTRIAL SITING
(307) 777-7369
FAX 777-5973

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





Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

for AS-BUILT SEPTIC SYSTEM

December 8, 2009

Erin Fazendin
P.O. Box 477
Shoshoni, Wyoming 82649

RE: Fazendin AS-BUILT Residential Septic System,
Location: SW¼ SE¼, Section 31, T18N, R83W,

Application No. 09-547
Carbon County

Dear Mr. & Mrs. Fazendin:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a 3 bedroom house in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. This coverage is issued in response to your submission and completion of the required septic system information for an as-built permit, and a satisfactory on-site inspection by DEQ/Water Quality Division (WQD) personnel on November 24, 2009 in accordance with Chapter 11, Part D of the Water Quality Rules and Regulations.

The information submitted and findings of the inspection generally indicates that this previously unpermitted subsurface construction does meet DEQ/WQD governing regulations for Small Wastewater Systems, and this As-Built "Notification of Coverage" is hereby issued.

If you have any further questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

RLE/bb/9-1081

cc: IPS, Cheyenne
Kristy Rowan, Carbon County Planning Office, Carbon Building, 215 west Buffalo Street, Suite 336, Rawlins, Wyoming 82301

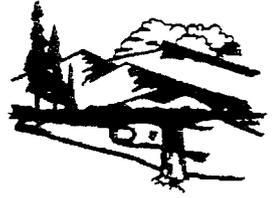
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ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

CERTIFIED: 7008 0150 0001 1177 2631

October 4, 2009

Erin Fazendin
P.O. Box 782
Saratoga, WY 82331

RE: **Letter of Violation (LOV):** for Construction of a Septic System in the SW¹/₄ SE¹/₄, of Section 31, T18N, R83W, Carbon County - Without a *Permit to Construct*.

Dear Mr. Fazendin:

On August 20, 2009 the Wyoming Department of Environmental Quality (DEQ)/Water Quality Division (WQD) received a phone call from your realtor requesting a copy of the septic system permit for your property in Mountain View Estates #1, Lot 11, Block 3, SW¹/₄, Sec31, T18N, R83W, built in 2006. A search for such a permit was conducted by the WQD using various methods, and by also using variations of the input information. No permit for a septic system under the Fazendin name or the location provided was found. At this time, the realtor was informed of this unsuccessful search and was sent a septic system application package to pass on to you to complete and return as an As-Built application. Your application for a permit to construct was received on October 5, 2009, but was submitted as if it were for a new system that had not been built yet. However, the earlier contact with your realtor, in August, demonstrates to DEQ that this application is really for an As-Built system. A preliminary review of the information in the application package that was submitted (**assigned application No. 09-547**) gives rise to some questions as to whether or not this system meets all of the current minimum standards and complies with the Rules and Regulations(R&R).

This letter hereby serves as official notification that the above described septic system construction without a permit constitutes violations of the Wyoming Environmental Quality Act (EQA) and the WQD Rules and Regulations. The property owner bears the final responsibility to make sure that all required permits are obtained. Therefore, in order to rectify this situation, the following must be accomplished:

1. Schedule, as soon as possible an on-site inspection by the WQD. Prior to the arrival of the WQD personnel, the following should be completed:
 - Dig an 8 foot deep observation pit,
 - Uncover the top half of the septic tank to expose the inlet and outlet pipes,

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ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	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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- Uncover and expose the end cross-section of one of the leachfield trenches,
- Identify both ends of all the leachfield lines, and

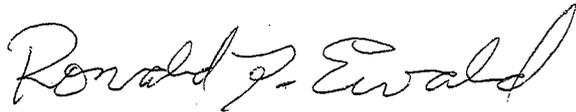
Call Ron Ewald at (307) 777-6183 to schedule this inspection within 30 days of receipt of this letter.

2. Have your contractor/installer present at the scheduled WQD on-site inspection to be available to answer questions. Also, the contractor should have his backhoe on-site in case some excavation is needed to expose more parts of the septic system.

The Water Quality Division is attempting to resolve this violation through conference and conciliation. This letter does not constitute an order, but rather, identifies steps to be taken by you as the property owner to satisfactorily resolve this violation. The intent of this letter is to provide an opportunity for you to show good faith efforts toward resolving this problem and to prevent the need for more formal enforcement action by this office.

If you should have any questions please call me at (307) 777-6183.

Sincerely,



Ronald L. Ewald
Environmental Senior Analyst
SE District, Water Quality Division

RLE/rm/9-1006



Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 30, 2009

Town of Encampment
Attn. Greg Salisbury, Mayor
P.O. Box 5
Encampment, WY 82327

RE: Amendment to Town of Encampment 2009 Water & Sewer Improvement Project
(Reference Previous Permit No. 96-326) Application No. **09-548**
Location: Section 1, T14N, R84W, Carbon County

Dear Mayor Salisbury:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Sewage Collection Systems 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 sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, 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 approval granted under this Notification Of Coverage and the General Permit shall expire on October 29, 2011. Please reference Application Number 09-548 in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/9-0982

Enclosures: GENERAL PERMIT - Extensions/Modifications of Existing Sewage Collection Systems
Certificate of Completion Form

cc: IPS, Cheyenne
Ken Schwerdt, PMPC Civil Engineers, P.O. Box 370, Saratoga, Wyoming 82331

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	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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Department of Environmental Quality



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

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 19, 2009

Jerald J. and Karen Thornton
P.O. Box 2335
Pinedale, Wyoming 82941-2335

RE: Thornton Residential Septic System, Application No. **09-549**
Location: Sec. 28, T16N, R81W, Portion Lot 18/Tract A, Ryan Park, Carbon County

Dear Mr. & Mrs. Thornton:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **2 bedroom cabin** 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 11, Part D 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 **each compartment of the septic tank** must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on October 19, 2011. Please reference Application Number **09-549** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/9-0919

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Kristy Rowan, Carbon County Planning Office, Carbon Building, 215 West
Buffalo Street, Suite 336, Rawlins, Wyoming 82301
All In One, P.O. Box 1963, Laramie, Wyoming 82073

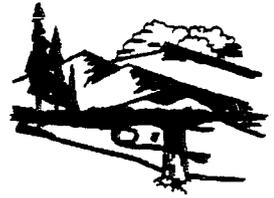
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Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

October 19, 2009

Robert A. and Robert Allen Ross
P.O. Box 1863
Saratoga, Wyoming 82331

RE: Ross & Ross Replacement Residential Septic System, Application No. **09-550**
Location: SW¼, Sec. 28, T16N, R81W, Lot 4 Tract B, Ryan Park, Carbon County

Dear Mr. Robert A. and Robert Allen Ross:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **2 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 11, Part D 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 **each compartment of the septic tank** must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on October 19, 2011. Please reference Application Number **09-550** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/9-0920

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Kristy Rowan, Carbon County Planning Office, Carbon Building, 215 West
Buffalo Street, Suite 336, Rawlins, Wyoming 82301
Buddy Crater, All In One Plumbing & Septic, P.O. Box 1963, Laramie, WY 82078

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ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	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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