

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

PERMIT NO. **08-251**  
SPECIAL CONDITIONS  
NOV DOCKET #4403-08

This permit hereby authorizes the applicant:

ADAM EDMONSON  
OVERBROOK IMPROVEMENT AND SERVICE DISTRICT  
10 CATALINA COURT  
GILLETTE, WY 82718

to have constructed, installed or modified the OVERBROOK SUBDIVISION WATER SYSTEM, according to the procedures and conditions of the application number **08-251**. The facility is located in the NE ¼, NW ¼ of Section 10, Township 49 North, Range 73 West, in the county of CAMPBELL, in the State of Wyoming.

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 generally meets the intent of the 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 permit conditions or other effluent or operational requirements.

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 **generally** meets **the intent** of 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.

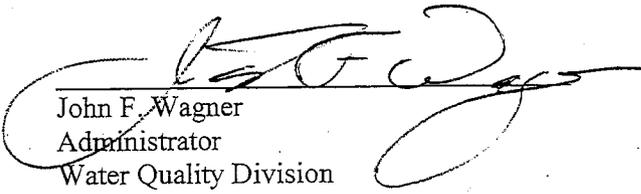
Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations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

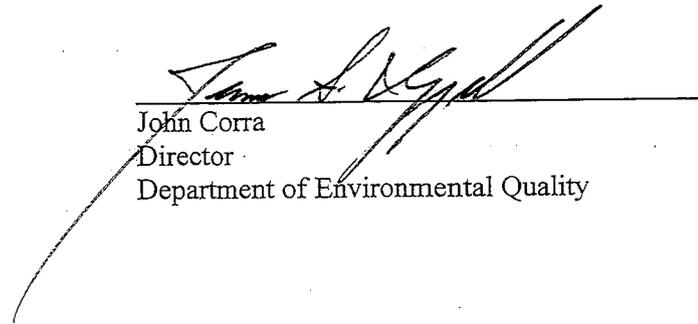
The permittee has constructed and shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or 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:

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 307-473-3478, 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.

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John Corra  
Director  
Department of Environmental Quality

9-14-09  
Date of Issuance

KLF/rm/9-0788

cc: Craig Mader, 2165 C.R. 423, Stephenville, TX 76401  
John Wetstein, Wester-Wetstein and Associates, Inc., P.O. Box 2202, Laramie, WY 82073  
Phillip Giffin, Engineering Services Manager, 500 S. Gillette Avenue, Gillette, WY 82716

ROAD APPLICATION PERMIT

X New  
Renewal  
Modified

PERMIT NO. 08-252  
SPECIAL CONDITIONS  
REF/PERMIT

**Lower Prairie Dog Road Realignment  
Road Construction Application**

This permit hereby authorizes the applicant:

**SHERIDIAN COUNTY PUBLIC WORKS**  
224 SOUTH MAIN STREET, SUITE B8E  
SHERIDAN, WYOMING 82801

to use CBM produced water during road construction of Lower Prairie Dog Road, according to the procedures and conditions of application number 08-252. The application site is located in east half of Section 24, Township 58 West, Range 83 West and northwest quarter of Section 19, Township 58 North, Range 82 West in the county of Sheridan, in the State of Wyoming. The southern end of the road application is approximately 3 miles north of Arvada. The middle portion of the road application is approximately 14 miles northeast of Sheridan. This permit shall be effective until December 1, 2008.

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

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

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

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

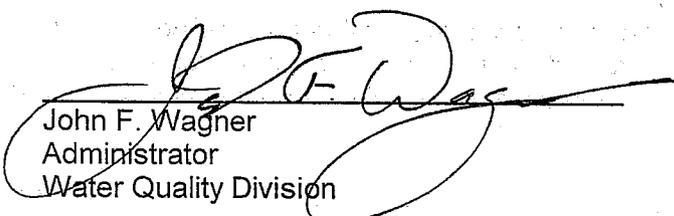
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

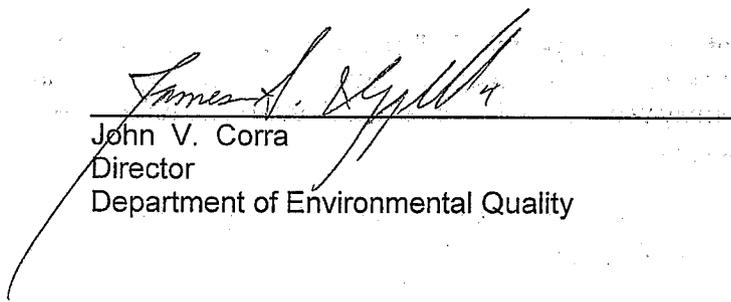
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

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

- 1 of 8 The permittee shall notify representatives from the DEQ/WQD of the anticipated project commencement and completion dates. At least 48 hours advance notice is required. The authorized representative in your area can be contacted at the following address: DEQ/WQD, Casper WDEQ Field Office, 152 North Durbin Street, Suite 100, Casper, WY 82601, telephone (307) 473-3452; FAX (307) 473-3458.
- 2 of 8 The permittee shall provide immediate oral and/or written notice to the Casper WDEQ Field Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications to the approved permit package.
- 3 of 8 The permittee shall provide certification that the project was completed in accordance with the terms and conditions of the permit within sixty (60) days of the project completion to the Casper WDEQ Field Office on the attached Certification of Completion form.
- Date that the road application was completed; and
  - Certification the road application was done in accordance with the terms and conditions of the permit; or
  - Certification the road application was completed with changes or modifications. Submit the information necessary to clearly indicate the road application as actually performed. This information shall include a contour map depicting only those sections of road where produced CBM water was used in the construction.
- 4 of 8 The review and approval of this permit is based upon the items identified in the attached Statement of Basis.
- 5 of 8 The produced CBM water from Marathon Oil Badger Creek CBM wells shall be used during road construction.
- 6 of 8 The application site slope shall not exceed eight percent (8%) for vehicular application.
- 7 of 8 The application of CBM produced water shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
- 8 of 8 Only the roads designated in this permit are authorized for application of the CBM produced water. Additional or alternate sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the WQD.

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

5-1-08  
Date of Issuance

JDL/KJM/rm/8-0326

cc: WDEQ Casper Field Office

STATEMENT OF BASIS

I. General information.

A. Permit Number: 08-252

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

A. Chapter XI. No

B. Chapter XII. No

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

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

No

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

No

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

No

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

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

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

B. Briefly state the basis for the deviation.

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

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

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

District Policy 10.2 (10/17/86)

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

NA

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

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

The opportunity for direct or indirect discharge, percolation, or filtration to groundwater is minimized by uniformly applying the production water generated during the cleaning out of CBM wells.

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

NA

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

NA

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

NA

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

NA

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

NA

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

NA

VII. Documentation of Statement of Basis.

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

#### CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Kim Medina, Geological Project Analyst, and completed on April 29, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 08-253

Cheyenne BOPU Fire Hydrant and Service Line Permit  
PWS: 5600011

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities  
PO Box 11469  
2100 Pioneer Avenue  
Cheyenne, WY 82003

to construct, install or modify fire hydrants, fire lines, and service lines not larger than 6 inches in diameter nor longer than 200 feet in length throughout their system according to the procedures and conditions of the application number 08-253. The facility is located in the county of Laramie, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by May 1, 2013.

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

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

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

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

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

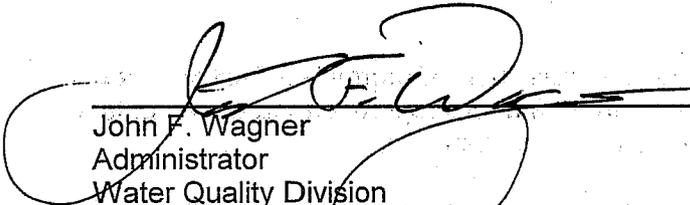
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

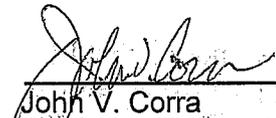
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

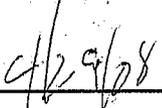
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 4. The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast District Office at 122 West 25th Street, Herschler Building - 4W, Cheyenne, Wyoming 82002, (307) 777-7781, or 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 of 4. Installation of fire hydrants under this permit will be limited to construction that includes hydrant leads that are six (6) inches in diameter or less and fire hydrant leads' piping that are 200 lineal feet and shorter.
- 3 of 4. This permit shall be effective for a period not to exceed May 1, 2013. At that time the DEQ and BOPU will evaluate the need, desire and appropriateness to issue a new permit.
- 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

  
\_\_\_\_\_  
Date of Issuance

BDM/rm/8-0325

cc: DEQ/WQD SE District Engineer

## STATEMENT OF BASIS

1. Permit Number: 08-253
2. Application reviewed for compliance with the following regulations :  
Chapter(s) 3, and 12 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?  
YES
4. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Brian Mark, Staff Engineer completed on April 29, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 08-254

REFERENCE PERMIT NO. 81-431

TOWN OF HANNA-PH I WTR TRT PLANT IMPROVE  
PWS WY5600025

This permit hereby authorizes the applicant:

Town of Hanna

to construct, install or modify a replacement of underdrains, addition of air backwash lines, and replacement of media according to the procedures and conditions of the application number 08-254. The facility is located in NE1/4 Section 36 T22N R82W; Carbon County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed July 13, 2010. 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.

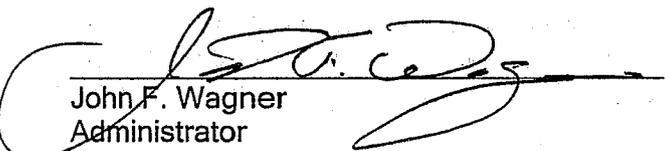
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

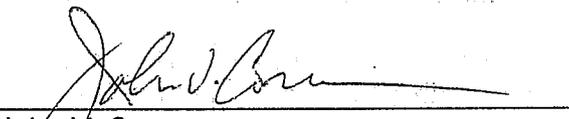
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization 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 Phase I of the Hanna Water Treatment Plant Upgrade only includes the replacement of the filter underdrains, the replacement of the media, and the installation of the air backwash lines, but not the air blowers. Phase II will require a complete design report that addresses the compliance of the water treatment plant with current Wyoming Water Quality Division Regulations and EPA rules governing the treatment of drinking water. The current wet wells with piping modifications as discussed April 3, 2008 have been determined adequate to satisfy the requirements for two backwash cycles as required by Chapter 12. This determination was based on the ability to achieve adequate expansion of the media for cleaning at less than the Chapter 12 flowrate of 20 gpm/sq. ft.
- 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
  - a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

Date of Issuance 5/15/08

LBH/rm/8-0376

## STATEMENT OF BASIS

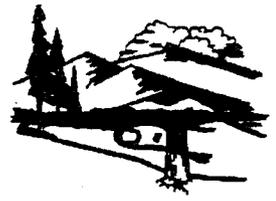
1. Permit Number:       **08-254**
2. This application was reviewed for compliance with the applicable regulations ;  
  
      Chapters 3, 12
3. Does the permit comply with all applicable regulations identified above?  
  
      Yes
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.
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 Louis Harmon, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on May 16, 2008. 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

May 13, 2008

Peg Bruce  
PO Box 115  
Elk Mountain, WY 82324

RE: Bruce – Elk Mountain RV Park Water and Sewer Project  
Application No. **08-255**

Dear Ms. Bruce:

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 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 water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permits, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

The approval granted under this Notification Of Coverage and the General Permit shall expire on October 1, 2009. Please reference Application Number **08-255** in any future correspondence.

If you have any questions, please contact me at (307) 777-6371.

Sincerely,

Brian D. Mark  
Staff Engineer  
Water Quality Division

BDM/rm/8-0368

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

cc: Murray Schroeder, WWC Engineering, 611 Skyline Rd., Laramie, WY 82070

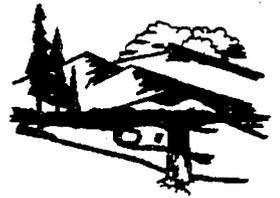
Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

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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# 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

July 2, 2008

Dana Smith  
HC 64 Box 402  
McFadden, Wyoming 82083

RE: Smith, Dana – Residential Septic System,  
Location: SW¼, Section 22, T20N, R80W,

Application No. **08-256**  
Carbon County

Dear Ms. Smith:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **1 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. Abandonment of "Old Septic Tank and Leachfield" - The old septic tank and leachfield must be properly abandoned. Especially the old septic tank so that children won't accidentally discover it and fall in. First, the septic tank should be pumped out one last time, including all of the sludge, and properly disposed of. Next, the septic tank can either be taken out and hauled away, broken up in place and collapsed in on itself and the remaining hole backfilled with soil back to the natural ground surface. Or, third, the tank can be filled with self spreading and self compacting material such as sand or pea gravel that will not leave voids in the tank up to the lid which should be bolted or grouted in place. As the sand or pea gravel nears the top of the tank, care must be taken to push the material away from the opening towards the sides of the tank to eliminate as much void space as absolutely possible. The inflow pipe to the tank should also be disconnected and plugged and sealed at both ends and also the tank inlet opening. Lastly, cover the old tank with soil up to the natural ground level.

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 old leachfield can be abandoned in place by disconnecting the outflow pipe from the septic tank and plugging and sealing it. The old leachfield rock and pipes or chambers can then be abandoned in place if so desired. The other option is to dig up and remove all of the old rock and pipe or chambers and properly dispose of it, if this is what the owner prefers.

The approval granted under this Notification Of Coverage and the General Permit shall expire on July 1, 2010. Please reference Application Number **08-256** in any future correspondence.

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

Sincerely,



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

RLE/rm/8-0512

Enclosures: GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion

cc: IPS, Cheyenne  
Carbon County Planning Director, Lou Kline, 215 W. Buffalo Street, #304,  
P.O. Box 487, Rawlins, Wyoming 82301



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

April 30, 2008

Larry Cage  
476 Hwy 24  
Devil's Tower, WY 82714

RE: Tower View Commercial Septic System, Crook County  
Permit # 08-257

Dear Mr. Cage:

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. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

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

Sincerely,

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

Enclosures: General Permit  
Certificate of Completion

cc: Tim Lyons, Crook County Growth and Development  
Travis Dewey, Tri-City Excavation, Inc., 169 Thorn Divide Rd., Carlile, WY 82721  
IPS, Cheyenne  
WDEQ File

Page 1 of 1



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

Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002

PROJECT: Shirley Basin Rest Area & Shirley Rim Maintenance Facility – Reconfigure  
Sewage Lagoons, Replace Liner, and Abandon Unused Ponds

LOCATION: NE¼, Section 11, T28N, R80W, **Carbon County**

ENGINEER: Robert Bennett  
Civil Engineering Professionals, INC. (CEPI)  
6080 Enterprise Drive  
Casper, Wyoming 82609  
Ph: (307) 266-4346

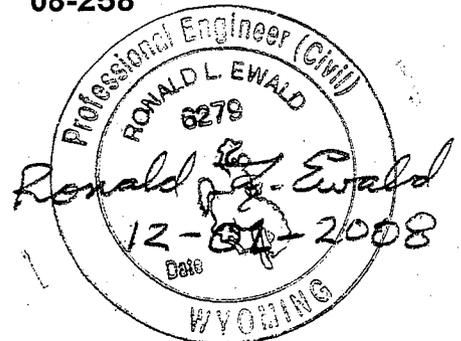
APPLICANT: Wyoming Department of Transportation (DOT)  
Attn: Larry Lijewski, Facility Construction Coordinator  
5300 Bishop Boulevard  
Cheyenne, Wyoming 82009-3340  
Ph: (307) 777-4146

WATER QUALITY DIVISION REFERENCE NUMBER:

**08-258**

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

3<sup>rd</sup> REVIEW  
DATE OF REVIEW: December 1, 2008



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

## COMMENTS, INADEQUACIES, AND QUESTIONS:

### General Comments on 3<sup>rd</sup> Submittal:

After reviewing the latest proposed revised project design changes and approach submitted for conceptual analysis by the Water Quality Division (WQD), it appears that the WYDOT design team still does not clearly understand the concept and application of a "water balance" model to this facility and situation. To mention just a few concerns:

- The monthly "Influent, Precip, Evap, Net Gain/Loss Volumes, and Cumulative Pond Volume" tables still do not include a column which directly tracks and indicates the depth of the ponds for any given month. Many of the other calculations depend directly on what the current (or starting) depth is, such as evaporation volume, change in pond depth (up or down) for each month, etc.
- Precipitation and Evaporation in inches cannot be combined to get a net(+/-) inches of volume gain or loss. This is because while the surface area of the ponds is constantly changing, the effective precipitation run-off area into the ponds is fixed and always larger than the pond surface. These need to be calculated separately in gallons for each variable to the water balance.
- The depth of the small pond still appears to go to empty for five months (ie. - cumulative volume = 0), when it is supposed to be maintained at a minimum depth of 2 feet.
- And some other more minor factors.

Additionally, there is no detail or drawings (or even sketches) provided on such matters as:

- If it is feasible to make the existing lagoon cells 2 feet deeper.
- Details on the construction of ditches and berms to divert runoff like location, size, shape, etc.
- Contour drawings of the site after the ponds have been deepened and the ditches and berms have been built.

Lastly, answers to other previous questions and concerns were not provided such as:

- Actual water depth and pond surface area data columns for each month as the cumulative volumes of the ponds changes through the seasons as the generated inflow, precipitation, and evaporation changes.
- Pond construction details such as liner anchors, earth cover over the liner or not, physical termination of the influent pipe, etc.
- Abandonment of the other cells and proper disposal of the wastes.
- An O&M manual, and Wastewater Facility Operators.

**Permit Application Status:**

At the end of the 2<sup>nd</sup> WQD review it was recommended that WyDOT and/or their engineer consider scheduling a meeting with the WQD personnel at the DEQ offices in Cheyenne to discuss these shortcomings in person, rather than to continue with resubmission and the review process which is time consuming.

After progressing very little with this third submission and review, it is the WQD's position and decision that not enough progress is being made towards arriving at approvable plans through the written back and forth review and resubmission process. Therefore, **in order to prevent this "Permit to Construct" application # 08-258 from being DENIED** under Chapter 3, Section 14(a)(i) of the Water Quality Rules & Regulations, **the applicant and their engineer SHALL schedule an in person meeting with the Water & Wastewater section**, Southeast District engineering staff **before January 31, 2009**. The SE District engineering staff is, and can be contacted at, Ronald Ewald (307-777-6183 or [rewald@wyo.gov](mailto:rewald@wyo.gov)), and Rich Cripe (307-777-7075 or [rcripe@wyo.gov](mailto:rcripe@wyo.gov)). Please be prepared to discuss Chapter 11, Section 18 in depth so that progress can be made towards designing and presenting a plan that can be approved.

A copy of the 2<sup>nd</sup> WQD review dated October 9, 2008 is also included with this review as a refresher of the WQD's previous comments and concerns, some of which have been only partially, but not nearly fully, addressed by the revised proposal outlined in your third submittal.

RLE/rm/8-0950

Enclosure: Copy of October 9, 2008 WQD Review Comments

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002

PROJECT: Shirley Basin Rest Area & Shirley Rim Maintenance Facility – Reconfigure Sewage Lagoons, Replace Liner, and Abandon Unused Ponds

LOCATION: NE¼, Section 11, T28N, R80W, Carbon County

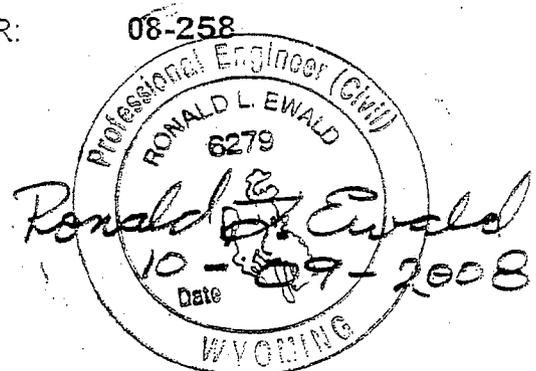
ENGINEER: Robert Bennett  
Civil Engineering Professionals, INC. (CEPI)  
6080 Enterprise Drive  
Casper, Wyoming 82609  
Ph: (307) 266-4346

APPLICANT: Wyoming Department of Transportation (DOT)  
Attn. Larry Lijewski, Facility Construction Coordinator  
5300 Bishop Boulevard  
Cheyenne, Wyoming 82009-3340  
Ph: (307) 777-4146

WATER QUALITY DIVISION REFERENCE NUMBER:

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

2<sup>nd</sup> REVIEW DATE OF REVIEW: October 9, 2008



ACTION: **NOT AUTHORIZED FOR CONSTRUCTION**. In accordance with Section 12 (a), Chapter III, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

## COMMENTS, INADEQUACIES, AND QUESTIONS:

### General Comments:

From 1<sup>st</sup> Review - "the original six cell lagoon system was designed in accordance with Chapter 11, Section 18, of the Water Quality Rules & Regulations (WQR&R), which are the design requirements for wastewater lagoon systems (i.e. – more than one cell). The proposed redesign of the lagoon system for this facility is a single cell which does not really "fit" the design concept, standards, and minimum regulations of Section 18. However, in this particular case, and since historical input flow data is available, the Department of Environmental Quality (DEQ) / Water Quality Division (WQD) is potentially willing to grant variance from the requirement to have at least two cells; **provided that all of the other requirements of Section 18 are met.**"

New General Comments - in general, the responses to the "Comments, Inadequacies, and Questions" identified and detailed in the June 3<sup>rd</sup> review did not satisfy or address many of the components of "all of the other requirements of Section 18". Also, what was submitted was very inadequate and non-responsive to the identified concerns.

1. Operating Water Depths - Review 1 – "Facultative ponds are required to have water depths of not less than two feet, nor greater than six feet. What operating levels is the redesigned lagoon being designed for."
  - The response indicates that there is a net negative water balance which means that the water level from year to year is always dropping. Therefore, the water level will eventually go below two feet in violation of the regulations {Chapter 11, Section 18(c)(ii)}, and at many times of the year will be virtually empty. If this analysis is close to accurate, then you might want to re-evaluate the proposed size of the single cell lagoon that you have done your initial calculations on. A column needs to be added to the table on sheet 1 which shows the depth each month after the net gain/loss of volume from the inflow, precipitation, and evaporation during the month so that the depth can be tracked. A period of several years (2, or 3, or more years) should probably be run to determine the lagoon level trend from year to year.
  - Also, 18(a)(iv) requires the water depth to be maintained to provide sufficient storage during the wettest year of record, and at least 2 feet deep during the driest year of record occurring over a ten year period of record. The source of all weather data should be identified.
  - The method of measuring the lagoon depth that will be used needs to be described in detail. Any equipment or markings that are needed for this task must be described, as well as how and where they will be installed.

2. Freeboard - Review 1 - "A minimum freeboard of two feet is required, and more if wave run-up could be a problem. Taking into account item 1 above and the fact that the proposed total lagoon depth from the bottom to the top of the liner and overflow level is only five feet, this only leaves an operating water level range of two to three feet deep. Is this how the single cell was designed to operate?"
  - As indicated above the operational minimum depth must be at least 2 feet, and since a depth of exactly 2 feet cannot be maintained at all times some amount of operating level is needed. A functional operating depth of zero is not allowed. This is why tracking the fluctuating depth over a period of several years, including the wettest and driest years is necessary, to determine the operating depth (2 feet up to ?) needed.
3. Overflow Level on West Side of Lagoon - Review 1 - "from the ground surface elevation contour drawings submitted, it appears that if the lagoon water depth reaches 5 feet 1 inch it will begin to overflow the dike on the west side and run out onto the open ground below the lagoon. Is this observation correct? This could be very important as the following questions are answered."
  - This question has not been answered because the response is based on the assumption of a minimum functional operating depth of zero, which is not allowed(see #2 above). Also, this means that there is no freeboard at all. A minimum of 2 feet or more for wave runup is required by 18(c)(iv).
4. Upland Runoff into Lagoon - Review 1 - "it appears as if there is no attempt to prevent runoff from rainstorms and snow melt coming from the Northeast, Southeast, and especially the East, from running into the lagoon. This will add an unnecessary volume of water to the lagoon that has to be accounted for in the evaporation cycle."
  - The response indicates that the original design did not prevent runoff intrusion, and the revised plans do not indicated that this situation has been changed. Therefore, the runoff must be included in the precipitation figures when doing water balance calculations. An outside perimeter line identifying the boundary of the area that will runoff into the lagoon must be shown on the plans. The area inside this perimeter(including the lagoon) must also be determined.
5. Nonsurface Water Discharging Ponds Design Constraints - Review 1 - "Nonsurface Water Discharging Ponds (NsWDP) are to be designed on the basis of a water balance that considers evaporation and seepage, 18(a)(C). However, in this case since a new nonpermeable synthetic liner is to be installed, there should be no seepage ( i.e. - the liner is there to prevent leakage to the groundwater or for some other reason not considered in the original permit) and only evaporation should figure into the water balance. This point is important, because in the Engineering Design Report (EDR) the reason given for deciding that only the volume of the first to ponds was needed was because those two were the only ones

that ever seemed to have any water in them historically. However, if the liner was defective for most of this time, especially for the last few years, then there has also been a significant volume of exfiltration adding into the water balance that won't be there anymore after the new liner is installed and certified. In a NsWDP there must be enough storage volume to retain all wastewater and rainfall (and rainfall run-in) during the wettest year of record during a ten year period of record, while maintaining some freeboard. Additionally, a minimum depth of two feet shall be able to be maintained during the driest year of a ten year period.

These water balance/water level fluctuation calculations need to be submitted for review. They should show the highest and lowest water levels during an average yearly cycle as well as the storage and minimum depth requirements for the wettest and driest years in a ten year period."

- The response did not show any water levels for any cycle, not average year, wettest year, or driest year. The needs and reasons for the modeling of the water level have been presented above. And please be reminded, the source of the weather data such as monthly precipitation and evaporation must be identified, and be specific.

6. Liner Anchors - Review 1 - "more details are needed on how the liner will be anchored into slopes that are continuously going upwards with no break in the slope to elevations several feet above the indicated anchor level of the liner at 6458 feet elevation, This is the case on the north, south, and east sides. Please provide more detailed cross-sections and narratives to go with them if needed."

- The Detail 2, on sheet 5 was looked at the first time which is what raised the concern. How will you actually get the liner anchor into place? It looks like you will have to excavate into some existing slopes to get the liners into place, and then reconstruct the slope above somehow. Is this correct? How will you reconstruct the slope above so that it won't slide off the liner into the lagoon when it becomes saturated, 18(d)(ii)? What will prevent the exposed point of the reconstructed slope from eroding away from wave action? There is no rip-rap or other such protection, 18(d)(iii). Please describe in detail, with a written narrative of the steps in the process, how this will all happen and remain stable.

7. Earth Cover over Liner - Review 1 - "are there any plans for an earth cover over the entire surface area of the synthetic liner? If so, how thick?"

- The response was that there would be no earth cover on the liner. This means that for long periods of time the upper portions of the liner will be directly exposed to sunlight. Many synthetic liners deteriorate when exposed to sunlight. What are the properties of this liner in regards to exposure to sunlight, 18(e)(ii)(A)?

8. Other Assorted Design Features – Review 1 - “Section 18 also has specific requirements concerning such items as: the location of, and construction at, the end of the inlet pipe, the shape, embankment materials and compaction, top width – slope – and erosion control on dikes, and so on. Please address all of these issues as appropriate.”

- Chapter 11, 18(a)(v)(A), (B), and (C) require the influent pipe to terminate on the bottom of the lagoon on a concrete apron of at least 4 feet by 4 feet, and at least 30 feet from any bank. Section 18(a)(v)(D) requires an influent manhole prior to the lagoon, and there are none identified or detailed. Section 18(d)(i)(B) requires a dike with a top width of at least 8 feet. This would apply mostly to the west side of the lagoon, and maybe around the corners partially up both the north and south sides.

9. Pond Abandonment and Disposal of Waste - Review 1 - “the application says that all of the six old liners will be removed, but it doesn’t say how or where they will be disposed of. Next, when the two main ponds are emptied of liquid there is sure to be sewage sludge on top of the old liners. What are the plans for the removal, on-site or off-site treatment, and disposal of this sludge? Where and how will it ultimately be disposed of?”

The removal and disposal of the sludge requires an EPA Region 8 permit. Contact Bob Brobst at (303) 312-6129 to find out more about these EPA permits.”

- The response says that it will be the contractor’s responsibility to obtain required permits for the lagoon sludge disposal. This responsibility CAN NOT be transferred to someone else. WyDOT owns it “Cradle to Grave”. Therefore, before this permit can be approved, the WQD will need to see the plans for how and where the sludge will be disposed of. And secondly, verification that a Sludge Disposal Permit has at least been applied for to EPA Region 8 will need to be provided by either the contractor or WyDOT.

#### New Comments:

10. Reason for Liner - the WQD would like to know what the reason is for changing to and upgrading to a synthetic liner. Are there groundwater contamination concerns? Or, is it that WyDOT does not wish to conduct a Groundwater Study as required by Chapter 3, Section 15(a) and (b) in Chapter 11, Section 18(e)(i)? Or is there some other reason for upgrading to a synthetic liner?
11. Calculation Discrepancies - the WQD does not concur with many of the calculated values for important variables such as; the surface area of the lagoon at different depths, the lagoon volume at different depths, the net monthly gallons gain/loss values, and subsequently the cumulative lagoon volume numbers. And lastly, the lack of monthly lagoon depth values as the amount of influent, precipitation, and evaporation changes throughout the year.

12. Operation & Maintenance Manual - Chapter 11, Section 24 says that where required, O&M manuals are required for new or "modified" treatment facilities. Although this treatment facility is only a single cell, non-discharging, facultative lagoon, it appears from these reviews that it could have problems if not operated properly. It could either drop to water depths that are too shallow at times, or overflowing could be a problem at other times, depending on the season of the year and the intensity and longevity of precipitation or snow melt events (see comments #1 and #11 above).

Therefore, even though most of Section 24 would not be applicable to this type of facility, some parts of it could definitely be applied. Such as:

- A list of all equipment in the system such as pumps, valves, and so on, where spare parts are kept or can be obtained, and manufacturers manuals for the various pieces of equipment,
- Maintenance schedules as well as startup operations, routine operations, emergency or power outage operations, etc.,
- A Troubleshooting Guide,
- Emergency procedures including emergency notification procedures and contacts to be followed to protect human health and safety of the protection of the environment,
- A safety section, and
- Any other items in Section 24, or not in Section 24, that would be pertinent to, and useful to have in, the O&M Manual.

At least a draft O&M Manual should be submitted with the next response.

13. Wastewater Facility Operators - According to Chapter 5 of the Water Quality Rules & Regulations, a "Certified Wastewater Operator" is required to operate this type of facility. Please identify by name and license type/level the personnel that will be assigned these duties. If you have any questions about these requirements, or operator level requirements, please contact Kim Parker, WQD Licensing Program Administrator, at (307) 777-6128 or [kparke@wyo.gov](mailto:kparke@wyo.gov).

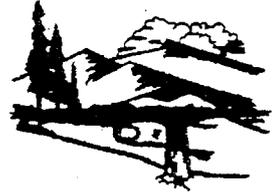
### Recommendations:

At this point it would be the WQD's recommendation that WyDOT and/or their engineer consider scheduling a meeting with the WQD personnel at the DEQ offices in Cheyenne to discuss these shortcomings in person, rather than to continue with resubmission and review process which is time consuming.

Enclosures: Chapter 11, Section 18. Lagoons  
Chapter 11, Section 24. Operation and Maintenance Manuals  
Chapter 5: Certification of Public Water & Wastewater Treatment Plant Operators



# 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 5, 2009

Wyoming Department of Transportation (DOT)  
Attn: Larry Lijewski, Facility Construction Coordinator  
5300 Bishop Boulevard  
Cheyenne, Wyoming 82009-3340

RE: **Inactive Permit Application being Returned:**  
Shirley Basin Rest Area & Shirley Rim Maintenance Facility – Reconfigure Sewage  
Lagoons, Replace Liner, and Abandon Unused ponds:  
Location: NE¼, Section 11, T28N, R80W,

Number 08-258

Carbon County

Dear Mr. Lijewski:

The Wyoming DOT's application, number 08-258 for the above described rehabilitation and modifications to the Shirley Basin wastewater facility, is considered inactive and is being returned. This application is being returned because the DOT and the Wyoming Department of Environmental Quality (DEQ) / Water Quality Division (WQD) cannot come to an agreement on a design and plan that is approvable under DEQ/WQD rules & regulations.

In the most recent version (4<sup>th</sup> set) of the plans submitted to the WQD for review, an even more unexpected proposal was put forth. To summarize the difficulties with this plan the following very short and broad set of comments are offered. First, the two lagoon cells cannot be separated by a "hump" that simply serves as an elongated spillway. The two cells must be separated by an actual berm that is at least 10 feet wide at the top. Second, the flow of water from the first cell to the second should be controllable by pipes and valves or gates or some other mechanism, so that the level of both cells can be controlled. The design of this whole project should be reconsidered from scratch.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and is punishable with fines not to exceed \$10,000 per day of violation. **If this project has already been constructed**, it is your responsibility to immediately contact this office for further information and instructions. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter 3 of the Wyoming Water Quality Rules and Regulations must be followed and restarted.

Sincerely;

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

RLE/rm/9-0877

cc: IPS

Robert Bennett, Civil Engineering Professionals, Inc., 6080 Enterprise Drive,  
Casper, Wyoming 82609

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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REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002

PROJECT: Shirley Basin Rest Area & Shirley Rim Maintenance Facility – Reconfigure Sewage Lagoons, Replace Liner, and Abandon Unused Ponds

LOCATION: NE¼, Section 11, T28N, R80W, Carbon County

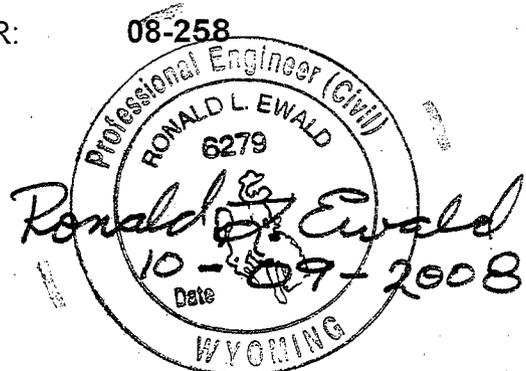
ENGINEER: Robert Bennett  
Civil Engineering Professionals, INC. (CEPI)  
6080 Enterprise Drive  
Casper, Wyoming 82609  
Ph: (307) 266-4346

APPLICANT: Wyoming Department of Transportation (DOT)  
Attn. Larry Lijewski, Facility Construction Coordinator  
5300 Bishop Boulevard  
Cheyenne, Wyoming 82009-3340  
Ph: (307) 777-4146

WATER QUALITY DIVISION REFERENCE NUMBER:

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

2<sup>nd</sup> REVIEW DATE OF REVIEW: October 9, 2008



**ACTION:** NOT AUTHORIZED FOR CONSTRUCTION. In accordance with Section 12 (a), Chapter III, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

## COMMENTS, INADEQUACIES, AND QUESTIONS:

### General Comments:

From 1<sup>st</sup> Review - "the original six cell lagoon system was designed in accordance with Chapter 11, Section 18, of the Water Quality Rules & Regulations (WQR&R), which are the design requirements for wastewater lagoon systems (i.e. – more than one cell). The proposed redesign of the lagoon system for this facility is a single cell which does not really "fit" the design concept, standards, and minimum regulations of Section 18. However, in this particular case, and since historical input flow data is available, the Department of Environmental Quality (DEQ) / Water Quality Division (WQD) is potentially willing to grant variance from the requirement to have at least two cells; **provided that all of the other requirements of Section 18 are met.**"

New General Comments - in general, the responses to the "Comments, Inadequacies, and Questions" identified and detailed in the June 3<sup>rd</sup> review did not satisfy or address many of the components of "all of the other requirements of Section 18". Also, what was submitted was very inadequate and non-responsive to the identified concerns.

1. Operating Water Depths - Review 1 – "Facultative ponds are required to have water depths of not less than two feet, nor greater than six feet. What operating levels is the redesigned lagoon being designed for."

- The response indicates that there is a net negative water balance which means that the water level from year to year is always dropping. Therefore, the water level will eventually go below two feet in violation of the regulations {Chapter 11, Section 18(c)(ii) }, and at many times of the year will be virtually empty. If this analysis is close to accurate, then you might want to re-evaluate the proposed size of the single cell lagoon that you have done your initial calculations on. A column needs to be added to the table on sheet 1 which shows the depth each month after the net gain/loss of volume from the inflow, precipitation, and evaporation during the month so that the depth can be tracked. A period of several years(2, or 3, or more years) should probably be run to determine the lagoon level trend from year to year.
- Also, 18(a)(iv) requires the water depth to be maintained to provide sufficient storage during the wettest year of record, and at least 2 feet deep during the driest year of record occurring over a ten year period of record. The source of all weather data should be identified.
- The method of measuring the lagoon depth that will be used needs to be described in detail. Any equipment or markings that are needed for this task must be described, as well as how and where they will be installed.

2. Freeboard - Review 1 - "A minimum freeboard of two feet is required, and more if wave run-up could be a problem. Taking into account item 1 above and the fact that the proposed total lagoon depth from the bottom to the top of the liner and overflow level is only five feet, this only leaves an operating water level range of two to three feet deep. Is this how the single cell was designed to operate?"

- As indicated above the operational minimum depth must be at least 2 feet, and since a depth of exactly 2 feet cannot be maintained at all times some amount of operating level is needed. A functional operating depth of zero is not allowed. This is why tracking the fluctuating depth over a period of several years, including the wettest and driest years is necessary, to determine the operating depth (2 feet up to ?) needed.

3. Overflow Level on West Side of Lagoon - Review 1 - "from the ground surface elevation contour drawings submitted, it appears that if the lagoon water depth reaches 5 feet 1 inch it will begin to overflow the dike on the west side and run out onto the open ground below the lagoon. Is this observation correct? This could be very important as the following questions are answered."

- This question has not been answered because the response is based on the assumption of a minimum functional operating depth of zero, which is not allowed(see #2 above). Also, this means that there is no freeboard at all. A minimum of 2 feet or more for wave runup is required by 18(c)(iv).

4. Upland Runoff into Lagoon - Review 1 - "it appears as if there is no attempt to prevent runoff from rainstorms and snow melt coming from the Northeast, Southeast, and especially the East, from running into the lagoon. This will add an unnecessary volume of water to the lagoon that has to be accounted for in the evaporation cycle."

- The response indicates that the original design did not prevent runoff intrusion, and the revised plans do not indicated that this situation has been changed. Therefore, the runoff must be included in the precipitation figures when doing water balance calculations. An outside perimeter line identifying the boundary of the area that will runoff into the lagoon must be shown on the plans. The area inside this perimeter(including the lagoon) must also be determined.

5. Nonsurface Water Discharging Ponds Design Constraints - Review 1 - "Nonsurface Water Discharging Ponds (NsWDP) are to be designed on the basis of a water balance that considers evaporation and seepage, 18(a)(C). However, in this case since a new nonpermeable synthetic liner is to be installed, there should be no seepage ( i.e. - the liner is there to prevent leakage to the groundwater or for some other reason not considered in the original permit) and only evaporation should figure into the water balance. This point is important, because in the Engineering Design Report (EDR) the reason given for deciding that only the volume of the first to ponds was needed was because those two were the only ones

that ever seemed to have any water in them historically. However, if the liner was defective for most of this time, especially for the last few years, then there has also been a significant volume of exfiltration adding into the water balance that won't be there anymore after the new liner is installed and certified. In a NsWDP there must be enough storage volume to retain all wastewater and rainfall (and rainfall run-in) during the wettest year of record during a ten year period of record, while maintaining some freeboard. Additionally, a minimum depth of two feet shall be able to be maintained during the driest year of a ten year period.

These water balance/water level fluctuation calculations need to be submitted for review. They should show the highest and lowest water levels during an average yearly cycle as well as the storage and minimum depth requirements for the wettest and driest years in a ten year period.”

- The response did not show any water levels for any cycle, not average year, wettest year, or driest year. The needs and reasons for the modeling of the water level have been presented above. And please be reminded, the source of the weather data such as monthly precipitation and evaporation must be identified, and be specific.

6. Liner Anchors - Review 1 - “more details are needed on how the liner will be anchored into slopes that are continuously going upwards with no break in the slope to elevations several feet above the indicated anchor level of the liner at 6458 feet elevation, This is the case on the north, south, and east sides. Please provide more detailed cross-sections and narratives to go with them if needed.”

- The Detail 2, on sheet 5 was looked at the first time which is what raised the concern. How will you actually get the liner anchor into place? It looks like you will have to excavate into some existing slopes to get the liners into place, and then reconstruct the slope above somehow. Is this correct? How will you reconstruct the slope above so that it won't slide off the liner into the lagoon when it becomes saturated, 18(d)(ii)? What will prevent the exposed point of the reconstructed slope from eroding away from wave action? There is no rip-rap or other such protection, 18(d)(iii). Please describe in detail, with a written narrative of the steps in the process, how this will all happen and remain stable.

7. Earth Cover over Liner - Review 1 - “are there any plans for an earth cover over the entire surface area of the synthetic liner? If so, how thick?”

- The response was that there would be no earth cover on the liner. This means that for long periods of time the upper portions of the liner will be directly exposed to sunlight. Many synthetic liners deteriorate when exposed to sunlight. What are the properties of this liner in regards to exposure to sunlight, 18(e)(ii)(A)?

8. Other Assorted Design Features – Review 1 - “Section 18 also has specific requirements concerning such items as: the location of, and construction at, the end of the inlet pipe, the shape, embankment materials and compaction, top width – slope – and erosion control on dikes, and so on. Please address all of these issues as appropriate.”

- Chapter 11, 18(a)(v)(A), (B), and (C) require the influent pipe to terminate on the bottom of the lagoon on a concrete apron of at least 4 feet by 4 feet, and at least 30 feet from any bank. Section 18(a)(v)(D) requires an influent manhole prior to the lagoon, and there are none identified or detailed. Section 18(d)(i)(B) requires a dike with a top width of at least 8 feet. This would apply mostly to the west side of the lagoon, and maybe around the corners partially up both the north and south sides.

9. Pond Abandonment and Disposal of Waste - Review 1 - “the application says that all of the six old liners will be removed, but it doesn’t say how or where they will be disposed of. Next, when the two main ponds are emptied of liquid there is sure to be sewage sludge on top of the old liners. What are the plans for the removal, on-site or off-site treatment, and disposal of this sludge? Where and how will it ultimately be disposed of?”

The removal and disposal of the sludge requires an EPA Region 8 permit. Contact Bob Brobst at (303) 312-6129 to find out more about these EPA permits.”

- The response says that it will be the contractor’s responsibility to obtain required permits for the lagoon sludge disposal. This responsibility CAN NOT be transferred to someone else. WyDOT owns it “Cradle to Grave”. Therefore, before this permit can be approved, the WQD will need to see the plans for how and where the sludge will be disposed of. And secondly, verification that a Sludge Disposal Permit has at least been applied for to EPA Region 8 will need to be provided by either the contractor or WyDOT.

#### New Comments:

10. Reason for Liner - the WQD would like to know what the reason is for changing to and upgrading to a synthetic liner. Are there groundwater contamination concerns? Or, is it that WyDOT does not wish to conduct a Groundwater Study as required by Chapter 3, Section 15(a) and (b) in Chapter 11, Section 18(e)(i)? Or is there some other reason for upgrading to a synthetic liner?
11. Calculation Discrepancies - the WQD does not concur with many of the calculated values for important variables such as; the surface area of the lagoon at different depths, the lagoon volume at different depths, the net monthly gallons gain/loss values, and subsequently the cumulative lagoon volume numbers. And lastly, the lack of monthly lagoon depth values as the amount of influent, precipitation, and evaporation changes throughout the year.

12. Operation & Maintenance Manual - Chapter 11, Section 24 says that where required, O&M manuals are required for new or "modified" treatment facilities. Although this treatment facility is only a single cell, non-discharging, facultative lagoon, it appears from these reviews that it could have problems if not operated properly. It could either drop to water depths that are too shallow at times, or overflowing could be a problem at other times, depending on the season of the year and the intensity and longevity of precipitation or snow melt events (see comments #1 and #11 above).

Therefore, even though most of Section 24 would not be applicable to this type of facility, some parts of it could definitely be applied. Such as:

- A list of all equipment in the system such as pumps, valves, and so on, where spare parts are kept or can be obtained, and manufacturers manuals for the various pieces of equipment,
- Maintenance schedules as well as startup operations, routine operations, emergency or power outage operations, etc.,
- A Troubleshooting Guide,
- Emergency procedures including emergency notification procedures and contacts to be followed to protect human health and safety of the protection of the environment,
- A safety section, and
- Any other items in Section 24, or not in Section 24, that would be pertinent to, and useful to have in, the O&M Manual.

At least a draft O&M Manual should be submitted with the next response.

13. Wastewater Facility Operators - According to Chapter 5 of the Water Quality Rules & Regulations, a "Certified Wastewater Operator" is required to operate this type of facility. Please identify by name and license type/level the personnel that will be assigned these duties. If you have any questions about these requirements, or operator level requirements, please contact Kim Parker, WQD Licensing Program Administrator, at (307) 777-6128 or [kparke@wyo.gov](mailto:kparke@wyo.gov).

### **Recommendations:**

At this point it would be the WQD's recommendation that WyDOT and/or their engineer consider scheduling a meeting with the WQD personnel at the DEQ offices in Cheyenne to discuss these shortcomings in person, rather than to continue with resubmission and review process which is time consuming.

Enclosures: Chapter 11, Section 18. Lagoons  
Chapter 11, Section 24. Operation and Maintenance Manuals  
Chapter 5: Certification of Public Water & Wastewater Treatment Plant Operators

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

Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002

PROJECT: Shirley Basin Rest Area & Shirley Rim Maintenance Facility – Reconfigure  
Sewage Lagoons, Replace Liner, and Abandon Unused Ponds

LOCATION: NE¼, Section 11, T28N, R80W, Carbon County

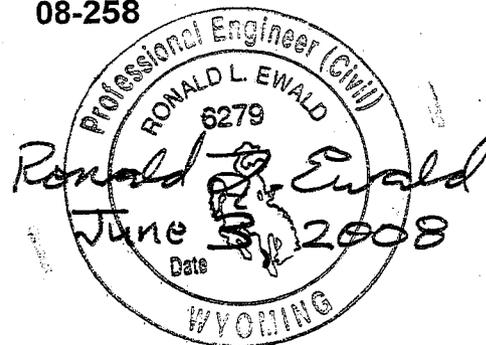
ENGINEER: Robert Bennett  
Civil Engineering Professionals, INC. (CEPI)  
6080 Enterprise Drive  
Casper, Wyoming 82609  
Ph: (307) 266-4346

APPLICANT: Wyoming Department of Transportation (DOT)  
Attn: Larry Lijewski, Facility Construction Coordinator  
5300 Bishop Boulevard  
Cheyenne, Wyoming 82009-3340  
Ph: (307) 777-4146

WATER QUALITY DIVISION REFERENCE NUMBER: 08-258

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

DATE OF REVIEW: June 3, 2008



**ACTION:** NOT AUTHORIZED FOR CONSTRUCTION. In accordance with Section 12 (a), Chapter III, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

**COMMENTS, INADEQUACIES, AND QUESTIONS:**

General Comment - the original six cell lagoon system was designed in accordance with Chapter 11, Section 18, of the Water Quality Rules & Regulations (WQR&R), which are the design requirements for wastewater lagoon systems (i.e. – more than one cell). The proposed redesign of the lagoon system for this facility is a single cell which does not really “fit” the design concept, standards, and minimum regulations of Section 18. However, in this particular case, and since historical input flow data is available, the Department of Environmental Quality (DEQ) / Water Quality Division (WQD) is potentially willing to grant variance from the requirement to have at least two cells; provided that all of the other requirements of Section 18 are met.

1. Operating Water Depths - Facultative ponds are required to have water depths of not less than two feet, nor greater than six feet. What operating levels is the redesigned lagoon being designed for.
2. Freeboard - A minimum freeboard of two feet is required, and more if wave run-up could be a problem. Taking into account item 1 above and the fact that the proposed total lagoon depth from the bottom to the top of the liner and overflow level is only five feet, this only leaves an operating water level range of two to three feet deep. Is this how the single cell was designed to operate?
3. Overflow Level on West Side of Lagoon - from the ground surface elevation contour drawings submitted, it appears that if the lagoon water depth reaches 5 feet 1 inch it will begin to overflow the dike on the west side and run out onto the open ground below the lagoon. Is this observation correct? This could be very important as the following questions are answered.
4. Upland Runoff into Lagoon - it appears as if there is no attempt to prevent runoff from rainstorms and snow melt coming from the Northeast, Southeast, and especially the East, from running into the lagoon. This will add an unnecessary volume of water to the lagoon that has to be accounted for in the evaporation cycle.
5. Nonsurface Water Discharging Ponds Design Constraints - Nonsurface Water Discharging Ponds (NsWDP) are to be designed on the basis of a water balance that considers evaporation and seepage. However, in this case since a new nonpermeable synthetic liner is to be installed, there should be no seepage ( i.e. – the liner is there to prevent leakage to the groundwater or for some other reason from the original permit) and only evaporation should figure into the water balance. This point is important, because in the Engineering Design Report (EDR) the reason given for deciding that only the volume of the first two ponds was needed was because those two were the only ones that ever seemed to have any water in them historically. However, if the liner was defective for most of this time, especially for the last few years, then there has also been a significant volume of exfiltration adding into the water balance that won't be there anymore after the new liner is installed and certified. In a NsWDP there must be enough storage volume to retain all wastewater and rainfall (and rainfall run-in) during the wettest year of record during a ten year period of record, while maintaining some freeboard. Additionally,

a minimum depth of two feet shall be able to be maintained during the driest year of a ten year period.

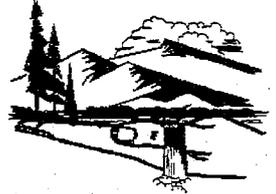
These water balance/water level fluctuation calculations need to be submitted for review. They should show the highest and lowest water levels during an average yearly cycle as well as the storage and minimum depth requirements for the wettest and driest years in a ten year period.

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8. Other Assorted Design Features – Section 18 also has specific requirements concerning such items as: the location of, and construction at, the end of the inlet pipe, the shape, embankment materials and compaction, top width – slope – and erosion control on dikes, and so on. Please address all of these issues as appropriate.
9. Pond Abandonment and Disposal of Waste - the application says that all of the six old liners will be removed, but it doesn't say how or where they will be disposed of. Next, when the two main ponds are emptied of liquid there is sure to be sewage sludge on top of the old liners. What are the plans for the removal, on-site or off-site treatment, and disposal of this sludge? Where and how will it ultimately be disposed of?

The removal and disposal of the sludge requires an EPA Region 8 permit. Contact Bob Brobst at (303) 312-6129 to find out more about these EPA permits.



# Department of Environmental Quality



Dave Freudenthal, Governor

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John Corra, Director

## NOTIFICATION OF COVERAGE

May 12, 2008

George Wendt  
P.O. Box 67  
Angels Camp, CA 95222

RE: Jackson Hole Properties LLC, Valley View Business Park, Lot 7, Permit Number: 08-259, Teton County, WY

Dear Mr. Wendt:

The above application for coverage under General Permit to install a 4-inch water service line to a new building in the Valley View Business Park has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the 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.

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

Sincerely,

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

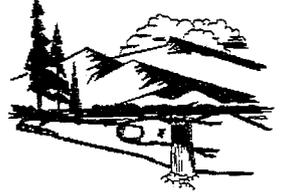
xc: Matthew Ostdiek, P.E., Rendezvous Engineering, P.O. Box 4858, Jackson, WY 83001  
IPS, Cheyenne

encl: General Permits For a Public Water Supply Distribution System





# Department of Environmental Quality



John Corra, Director

Dave Freudenthal, Governor

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June 23, 2008

Tim French, Chair  
Park County Commission  
1002 Sheridan Ave.  
Cody, WY 82414

RE: Non-Adverse Recommendation, Crandall Estates Subdivision, Park County, DEQ/WQD Application #08-260

Dear Commissioners:

The Wyoming Department of Environmental Quality (WDEQ) has completed the review of the above referenced subdivision pursuant to W.S. 18-5-306. This letter constitutes our conclusions regarding the feasibility of the proposed water and sewage systems pursuant to the W.S. 18-5-306 (c).

### Summary of Proposed Subdivision

This proposed development is located in the SW¼ & NW¼, §4, T.56 N., R.109 W. (6th P.M.) which is northwest of the unincorporated Town of Crandall. This application proposes to subdivide a 57.18 acre tract into 11 lots, ranging from 2.44 to 11.37 acres in size. Onsite wells and septic systems are proposed for all individual lots within the proposal.

### Findings as To the Safety and Adequacy of the Proposed Sewage System

The consultant demonstrated through percolation test results, nitrate loading analysis and a minimum isolation distance analysis that the proposed subdivision is suitable for individual on-site septic systems. Field investigations indicate that seasonal high groundwater levels may be an issue for Lots 1 through 3 if on-site septic systems were to be located in the low lying areas of the lots, near the river.

If septic systems are installed in the low lying areas within Lots 1 through 3, then enhanced or pressure dose mound systems should be required to ensure adequate treatment. An enhanced system adds additional treatment within an engineered package plant and a pressure dose mound system adds additional treatment in the unsaturated, subsurface by providing a better distribution of wastewater over the entire leachfield and ensuring a minimal four-foot vertical separation between the bottom of the leachfield and seasonally high groundwater levels. DEQ's recommendation is to require enhanced treatment in the low lying areas or restrict septic systems to outside the low lying areas within Lots 1 through 3. This requirement should be included in the plat.

Since Park County has been delegated by the department to issue small wastewater system permits, it is the county's responsibility to ensure, prior to issuing the permits that all permit requirements and design standards will be met. If an enhanced small wastewater treatment facility (including pressure mounded)

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FAX 332-7726

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FAX 332-7726

WATER QUALITY  
(307) 332-3144  
FAX 332-3183



is used, WDEQ must be involved in the small wastewater permit approval process by reviewing the design and providing comments to the Park County small wastewater system administrator.

### **Findings as To the Safety and Adequacy of the Proposed Water System**

Individual on-site wells are proposed for this development. One of the wells within the proposed subdivision was pump tested for 24-hour duration. DEQ concurs with the consultant that the shallow aquifer should allow for sufficient quantity for each lot at full build-out of the subdivision with minimal interference.

The consultant recommends that wells be completed to not less than 30 feet deep and that proper set back distances between wells and neighboring septic systems are ensured by restricting the placement of wells or septic systems within 50 feet of property boundary lines. Water quality results indicate that the groundwater is suitable for domestic use. Results from one of the three wells did test positive for total coliform. The consultant recommends periodic testing and the installation of chlorination equipment at the well as a safety precaution.

### **Conclusion(s):**

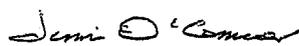
WDEQ has "no adverse" recommendations for the proposed subdivision provided that the recommendations mentioned in this letter are appropriately adhered to.

### **Disclaimer**

Nothing in WDEQ's recommendations or comments regarding the subdivider's proposal shall be construed to relieve the subdivider of their obligation to obtain any permits or additional approval from any local state or federal agencies/entities as required by law, rules and regulations, or ordinance. Nothing in these recommendations commits the WDEQ or the delegated county to the issuance of required permits for construction, operation, or modification of water supply and/or wastewater systems. It is the duty of the subdivider/developer to comply with all applicable federal, state and local requirements.

Please do not hesitate to contact either Jim O'Connor or James Brough at (307) 332-3144 if you have any questions on the recommendations or need any assistance on how to proceed with this application.

Sincerely,



Jim O'Connor, P.G.  
Environmental Senior Analyst  
Water Quality Division



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

cc: Tom Pilch, P.E., Pilch Engineering, 41 East Burkitt St., Sheridan, WY 82801  
Mallie Zickefoose, 16 Sunburst Dr., Cody, WY 82414  
Gene Smith, Park County Planning Office, 1002 Sheridan Ave., Cody, WY 82414  
Mike Ebsen, State Engineer's Office, Herschler Building, 4-E, Cheyenne, WY 82002  
DEQ Subdivision File; w/ enclosure  
IPS



The State  
of Wyoming

Dave Freudenthal, Governor

## Department of Environmental Quality

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



John Corra, Director

IPS

### NOTIFICATION OF COVERAGE

May 1, 2008

Al Erwin  
Ringwood gathering Company  
810 Houston St  
Ft. Worth, TX 76102

RE: Ringwood CBM Water Treatment Pilot Project, Permit # 08-262

Dear Mr. Erwin:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Pilot Plant 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. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O. of the general permit.

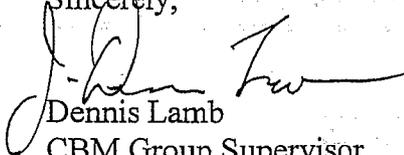
The following items need to be submitted to WDEQ/WQD CBM Group:

1. A complete set of as-built drawings including all piping in the building and connecting to the pits/discharge;
2. A monthly (weekly during initial start-up) report including onsite and lab analytical data relating to the facility's performance for meeting the discharge requirements (influent and effluent Na, Ca Mg, SAR, EC), 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;
3. A laboratory analysis of any wastes generated at the facility and information regarding any disposal of wastes including prior notification of when and where the material is to be disposed;
4. A site specific O&M manual and an operator daily checklist prior to full start up. This should include operational protocols to prevent discharge violations for when the plant is operating out of compliance.
5. Immediate notification to WDEQ/CBM Group of any violations, exceedences, upsets, or incidents relating to the facility and its' operation.



Please provide notification of start-up a week prior to initial processing of CBM water. If you have any questions please contact Dennis Lamb at 152 North Durbin, Casper, WY, 82601, (307) 473-3452 or [dlamb@state.wy.us](mailto:dlamb@state.wy.us). Thank you.

Sincerely,

  
Dennis Lamb  
CBM Group Supervisor  
DEQ/WQD

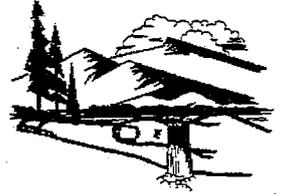
cc: IPS Cheyenne



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# Department of Environmental Quality

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John Corra, Director

## NOTIFICATION OF COVERAGE

May 6, 2008

Ron Fiene  
P.O. Box 272  
Greybull, WY 82426

RE: Pamida Store Fire Suppression Water Sewer Line, Permit Number: 08-263, Block 1, Knode Addition to Town of Greybull, Big Horn County

Dear Mr. Fiene:

This project involves the installation of approximately 40 linear feet of 6-inch diameter water line fire suppression line to serve a retail store. This 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.

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

Sincerely,

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

xc: Jerald Crews, P.E., Cardinal Design Group, 405 South 7<sup>th</sup> St. East, Riverton, WY 82501  
Randy Rumpier, Town of Greybull, P.O. Box 271, Greybull, WY 82426  
IPS, Cheyenne

encl: General Permit For a Public Water Supply Distribution System

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WATER QUALITY  
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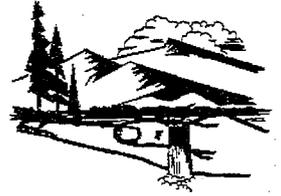




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# Department of Environmental Quality

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John Corra, Director

## NOTIFICATION OF COVERAGE

May 22, 2008

Erik Petersen  
883 Johnson Ave.  
Powell, WY 82435

RE: Petersen Subdivision Phase 1 Water Distribution and Sewer Collection Lines,  
Permit Number: 08-264, T55N, 99W, Park County

Dear Mr. Petersen:

This project involves the installation of 8-inch ductile iron water main and 8-inch PVC gravity sewer main and appurtenances to serve 21 residential lots within Phase 1 of the Petersen No. 1 Subdivision. This application for coverage under General Permit has been reviewed in accordance with Chapter 3, Chapter 11, Section 9; 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.

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

Sincerely,

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

xc: Gregory Meinecke, P.E., 1527 Rumsey Ave., Cody, WY 82414  
Sean Christensen, P.E., City of Powell, P.O. Box 1008, Powell, WY 82435  
IPS, Cheyenne

encl: General Permits For Public Water Supply Distribution and Sewage Collection Systems

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FAX 332-7726

SOLID & HAZARDOUS WASTE  
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FAX 332-7726

WATER QUALITY  
(307) 332-3144  
FAX 332-3183



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

PERMIT NO. 08-265

CARR DRAW LOVE CBM DEVELOPMENT AREA, PHASE II: MULTIPLE RESERVOIRS

This permit hereby authorizes the applicant:

Williams Production RMT Company  
Attn.: MS. Peggy Carter  
300 N. Works Avenue  
Gillette, WY 82716

to have installed four (4) compliance monitoring wells according to the procedures and conditions of the application number 08-265. The facilities are proximal to coalbed methane produced water impoundments located in Township 50N, Range 75W, Sections 15, 16 and 22 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 Program, 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 Program, 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:

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

Measurement of static water level of groundwater at monitoring wells:

Love 11-15-5075 MW-01, Love 21-16-5075 MW-01, Love 21-22-5075 MW-01, Love 22-16-5075 MW-01;

Sampling and analysis of groundwater at: Love 11-15-5075 MW-01, Love 21-16-5075 MW-01, Love 21-22-5075 MW-01, Love 22-16-5075 MW-01;

Reporting results of quarterly monitoring and sampling need to be at the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by **October 15, 2008**.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

**Love 11-15-5075**

Parameter	Love 11-15-5075 MW-01	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	690	3000
Total Dissolved Solids (TDS)	1230	5000
pH	8.9	6.5 – 8.5 (s.u)

**Love 21-16-5075**

Parameter	Love 21-16-5075 MW-01	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	852	3000
Total Dissolved Solids (TDS)	1460	5000
pH	7.59	6.5 – 8.5 (s.u)

**Love 21-22-5075**

Parameter	Love 21-22-5075 MW-	Class III
-----------	---------------------	-----------

	01	Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	1220	3000
Total Dissolved Solids (TDS)	2000	5000
pH	7.79	6.5 – 8.5 (s.u)

**Love 22-16-5075**

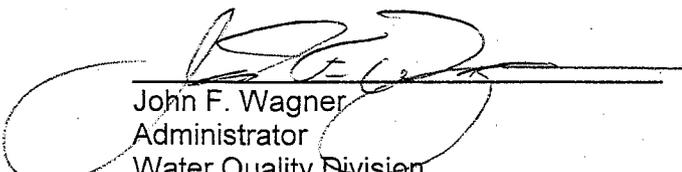
Parameter	Love 22-16-5075 MW-	Class III
	01	Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	908	3000
Total Dissolved Solids (TDS)	1600	5000
pH	7.62	6.5 – 8.5 (s.u)

If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ 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: [cbmgroundwater@state.wy.us](mailto:cbmgroundwater@state.wy.us). In addition, the accompanying analytical laboratory reports 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

6-6-08  
 Date of Issuance

AWW/rm/8-0449



**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:** 08-265

**SITE (POD) NAME:** CARR DRAW – LOVE CBM DEVELOPMENT AREA,  
PHASE II: Multiple Reservoirs Love 11-15-5075 MW-01,  
Love 21-16-5075 MW-01, Love 21-22-5075 MW-01, Love  
22-16-5075 MW-01

**APPLICANT:** Williams Production RMT Corporation  
Attn.: Ms. Peggy Carter  
300 N. Works Ave  
Gillette, WY 82716

**CONSULTANT:** CBM Associates, Inc  
Attn: Luke McMahan  
500 W. Lott St.  
Buffalo, WY 82834

**LOCATION:** Drainage: Unnamed tributaries to Fortification Creek,  
tributary to Powder River  
County : Cambell  
Township 50 North; Range 75 West

**WYPDES No:** WYPDES Discharge Permit WY0055026

**DATE ON REPORT:** February 28, 2008

**REVIEWING OFFICIAL:** Pete Vogel, P.G. Geologic Project Analyst

**DATE OF THIS REVIEW:** May 27, 2008

**ACTION:** Compliance Monitoring Plan authorized for CARR DRAW – LOVE CBM  
DEVELOPMENT AREA, PHASE II: Multiple Reservoirs Love 11-15-5075  
MW-01, Love 21-16-5075 MW-01, Love 21-22-5075 MW-01, Love 22-16-  
5075 MW-01

**COMMENTS: GROUNDWATER SECTION**

**1.0 SITE SUMMARY:**

**1.1 Site Description.**

Watershed Name: **Unnamed tributaries to Fortification Creek,  
tributary to Powder River**

Groundwater Classification:

Class 1 (domestic) \_\_\_\_\_  
Class 2 (agricultural) \_\_\_\_\_  
Class 3 (livestock) 4

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 and SAR (Table 1- Chapter 8).

**Table 1. Basis for Ground Water Classification by impoundment Name covered under Permit 08-265**

Impoundment Name	Down Gradient Monitoring Well	Sulfate Concentration and Classification	TDS Concentration and Classification	SAR Calculation	Overall Groundwater Class
Love 11-15-5075	Love 11-15-5075 MW-01	690	1230	8.0	III
Love 21-16-5075	Love 21-16-5075 MW-01	852	1460	8.3	III
Love 21-22-5075	Love 21-22-5075 MW-01	1220	2000	8.8	III
Love 22-16-5075	Love 22-16-5075 MW-01	908	1600	10.3	III

**Description of Hydrogeology:**

An initial report was submitted to WDEQ on June 26, 2007. This report was submitted without supporting documentation of groundwater flow directions. A deficiency letter was written for an adjacent property (Carr Draw – Hayden POD) and no further work was done on either of these projects pending additional supporting documentation.

A meeting was held in the Sheridan WDEQ office on February 14, 2008 among Peggy Carter (Williams Production), Luke McMahan (CBMA) and Pete Vogel (WDEQ). At that meeting, a computer generated potentiometric map was presented along with structural cross-sections supporting the generalized ground water gradients.

While WDEQ does not completely agree with the geologic interpretation as presented, the data was adequate to document the down gradient wells of the four impoundments incorporated in this review and permit.

First groundwater occurrences at the cited locations are in relatively thick saturated sandstone (8 feet at 11-15-5075) and coals (18-22 feet, 21-16, 21-22 and 22-16). Correlations are subject to interpretation due to the heterogeneity of the units.

**Table 2. Names of Impoundments covered under Permit 08-265**

Impoundment Name	Capacity (acre/ft)	Qtr Qtr	Section	Town.	Range	Down gradient Monitoring Well
Love 11-15-5075	14.56	NWNW	15	50N	75W	Love 11-15-5075 MW-01
Love 21-16-5075	11.71	NENW	16	50N	75W	Love 21-16-5075 MW-01
Love 21-22-5075	14.4	NENW	22	50N	75W	Love 21-22-5075 MW-01
Love 22-16-5075	8.53	SENW	16	50N	75W	Love 22-16-5075 MW-01

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**

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at downgradient well: Love 11-15-5075 MW-01, Love 21-16-5075 MW-01, Love 21-22-5075 MW-01, Love 22-16-5075 MW-01
- Reporting results of quarterly monitoring and sampling to the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by October 15<sup>th</sup>, 2008.
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

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**Love 11-15-5075**

<b>Parameter</b>	<b>Love 11-15-5075 MW-01</b>	<b>Class III Water Quality Standards (mg/L)</b>
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	690	3000
Total Dissolved Solids (TDS)	1230	5000
pH	8.9	6.5 – 8.5 (s.u.)

**Love 21-16-5075**

<b>Parameter</b>	<b>Love 21-16-5075 MW-01</b>	<b>Class III Water Quality Standards (mg/L)</b>
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	852	3000
Total Dissolved Solids (TDS)	1460	5000
pH	7.59	6.5 – 8.5 (s.u.)

**Love 21-22-5075**

<b>Parameter</b>	<b>Love 21-22-5075 MW-01</b>	<b>Class III Water Quality Standards (mg/L)</b>
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	1220	3000
Total Dissolved Solids (TDS)	2000	5000
pH	7.79	6.5 – 8.5 (s.u.)

**Love 22-16-5075**

<b>Parameter</b>	<b>Love 22-16-5075 MW-01</b>	<b>Class III Water Quality Standards (mg/L)</b>
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	908	3000
Total Dissolved Solids (TDS)	1600	5000
pH	7.62	6.5 – 8.5 (s.u.)

If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

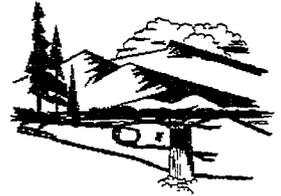
The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: [cbmgroundwater@state.wy.us](mailto:cbmgroundwater@state.wy.us). In addition, the accompanying analytical laboratory reports 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**

**AWV/rm/8-0449**



# Department of Environmental Quality



Dave Freudenthal, Governor

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

John Corra, Director

## NOTIFICATION OF COVERAGE

May 13, 2008

Paul Ferro  
Red Eagle, L.C.  
492 Main Street  
Ralston, WY 82435

RE: Red Eagle Small Waste Water Treatment System – Permit Number 08-266, Section 25, T55N, R100W, Park County

Dear Mr. Ferro:

The above application for coverage under General Permit to Construct a conventional wastewater treatment and disposal system to serve the gas station with a 1,718 sq ft leach field has been reviewed and is hereby approved with the following precaution:

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

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

Sincerely,

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

*Steve Warner*  
Steve Warner  
Reviewer

xc: IPS, Cheyenne  
Gene Smith, Park County Planning, 1002 Sheridan Ave., Cody, WY 82414

Encl: General permit for one Small Waste Water Systems

Page 1 of 1



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

PERMIT NO. 08-268

CARR DRAW LOVE CBM DEVELOPMENT AREA, PHASE IV: MULTIPLE RESERVOIRS

This permit hereby authorizes the applicant:

Williams Production RMT Company  
Attn.: MS. Peggy Carter  
300 N. Works Avenue  
Gillette, WY 82716

to have installed three (3) compliance monitoring wells according to the procedures and conditions of the application number 08-268. The facilities are proximal to coalbed methane produced water impoundments located in Township 50N, Range 75W, Sections 9, 10 and 22 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 Program, 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 Program, 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:**  
Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

Measurement of static water level of groundwater at monitoring wells:

Love 44-09-5075 MW-01, Love 14-10-5075 MW-01 and Love 31-22-5075 MW-01

Sampling and analysis of groundwater at: Love 44-09-5075 MW-01, Love 14-10-5075 MW-01 and Love 31-22-5075 MW-01

Reporting results of quarterly monitoring and sampling need to be at the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by **October 15<sup>th</sup>, 2008.**

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

**Love 44-09-5075**

Parameter	Love 44-09-5075 MW-01,	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	1940	3000
Total Dissolved Solids (TDS)	2920	5000
pH	6.29	6.5 – 8.5 (s.u)

**Love 14-10-5075**

Parameter	Love 14-10-5075 MW-01	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	2070	3000
Total Dissolved Solids (TDS)	3310	5000
pH	7.09	6.5 – 8.5 (s.u)

**Love 31-22-5075**

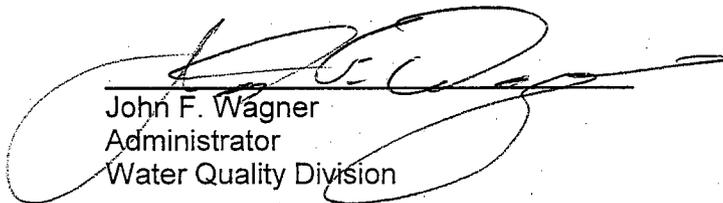
<b>Parameter</b>	<b>Love 31-22-5075 MW-01</b>	<b>Class III Water Quality Standards (mg/L)</b>
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	888	3000
Total Dissolved Solids (TDS)	1430	5000
pH	8.37	6.5 – 8.5 (s.u)

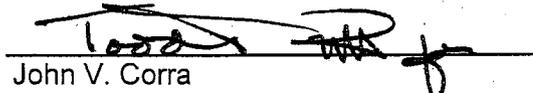
If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

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: [cbmgroundwater@state.wy.us](mailto:cbmgroundwater@state.wy.us). In addition, the accompanying analytical laboratory reports 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.

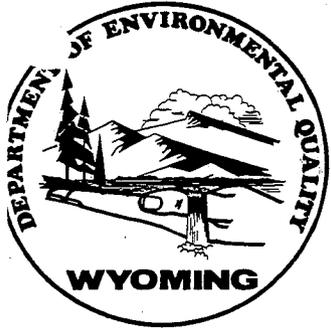
AUTHORIZED BY:

  
 John F. Wagner  
 Administrator  
 Water Quality Division

  
 John V. Corra  
 Director  
 Department of Environmental Quality

10-6-08  
 Date of Issuance

AWW/rm/8-0450



**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:** 08-268

**SITE (POD) NAME:** CARR DRAW – LOVE CBM DEVELOPMENT AREA,  
**PHASE IV:** Multiple Reservoirs - Love 44-09-5075, Love 14-10-5075 and Love 31-22-5075

**APPLICANT:** Williams Production RMT Corporation  
Attn.: Ms. Peggy Carter  
300 N. Works Ave  
Gillette, WY 82716

**CONSULTANT:** CBM Associates, Inc  
Attn: Luke McMahan  
500 W. Lott St.  
Buffalo, WY 82834

**LOCATION:** Drainage: Unnamed tributaries to Fortification Creek,  
tributary to Powder River  
County : Cambell  
Township 50 North; Range 75 West

**WYPDES No:** WYPDES Discharge Permit WY0055026

**DATE ON REPORT:** February 28, 2008

**REVIEWING OFFICIAL:** Pete Vogel, P.G. Geologic Project Analyst

**DATE OF THIS REVIEW:** June 3, 2008

**ACTION:** Compliance Monitoring Plan authorized for CARR DRAW – LOVE CBM  
DEVELOPMENT AREA, PHASE II: Multiple Reservoirs Love 44-09-  
5075, Love 14-10-5075 and Love 31-22-5075

**COMMENTS: GROUNDWATER SECTION**

**1.0 SITE SUMMARY:**

**1.1 Site Description.**

Watershed Name: **Unnamed tributaries to Fortification Creek,  
tributary to Powder River**

Groundwater Classification:

Class 1 (domestic) \_\_\_\_\_  
Class 2 (agricultural) \_\_\_\_\_  
Class 3 (livestock) 3

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 and TDS at Love 44-09-5075 and Love 14-10-5075. Water Quality standards exceed Class I and Class II standards and meet Class III standards at Love 31-22-5075 for Sulfate (Table 1- Chapter 8).

**Table 1. Basis for Ground Water Classification by impoundment Name covered under Permit 08-268**

Impoundment Name	Down Gradient Monitoring Well	Sulfate Concentration and Classification	TDS Concentration and Classification	SAR Calculation	Overall Groundwater Class
Love 44-09-5075	Love 44-09-5075 MW-01	1940	2920	2.0	III
Love 14-10-5075	Love 14-10-5075 MW-01	2070	3310	1.2	III
Love 31-22-5075	Love 31-22-5075 MW-01	888	1430	10.3	III

**Description of Hydrogeology:**

An initial report was submitted to WDEQ on June 26, 2007. This report was submitted without supporting documentation of groundwater flow directions. A deficiency letter was written on and adjacent property (Carr Draw – Hayden POD) and no further work was done on either of these projects pending additional supporting documentation.

A meeting to discuss the permitting issues was held in the Sheridan, WDEQ office on February 14, 2008 with Pete Vogel (WDEQ), Peggy Carter (Williams Production) and Luke McMahan (CBMA) attending. At that meeting, a computer generated potentiometric map was presented along with structural cross-sections supporting the generalized ground water gradients.

While WDEQ does not agree with all the conclusions of the interpretation as presented, the data was adequate to document the down gradient wells of the four impoundments incorporated in this review and permit.

First groundwater occurrences at the cited locations are in relatively thick saturated and partially saturated sandstones and saturated coals. Water saturated intervals ranges from seven feet of sandstone and 11 feet of coal in 44-09 to 41 feet of saturated sandstone in 31-22. Stratigraphic correlations are questionable due to the heterogeneity of the units. Hydrogeologic correlation is considered valid.

**Table 2. Names of Impoundments covered under Permit 08-268**

Impoundment Name	Capacity (acre/ft)	Qtr Qtr	Section	Town.	Range	Down gradient Monitoring Well
Love 44-09-5075	14.3	SESE	9	50N	75W	Love 44-09-5075 MW-01
Love 14-10-5075	13.82	SWSW	10	50N	75W	Love 14-10-5075 MW-01
Love 31-22-5075	13	NWNE	22	50N	75W	Love 31-22-5075 MW-01

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**

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at downgradient well: Love 44-09-5075 MW-01, Love 14-10-5075 MW-01 and Love 31-22-5075 MW-01
- Reporting results of quarterly monitoring and sampling to the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by October 15<sup>th</sup>, 2008
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

**THIS SPACE INTENTIONALLY LEFT BLANK**

### Love 44-09-5075

Parameter	Love 44-09-5075 MW-01,	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	1940	3000
Total Dissolved Solids (TDS)	2920	5000
pH	6.29	6.5 – 8.5 (s.u)

### Love 14-10-5075

Parameter	Love 14-10-5075 MW-01	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	2070	3000
Total Dissolved Solids (TDS)	3310	5000
pH	7.09	6.5 – 8.5 (s.u)

### Love 31-22-5075

Parameter	Love 31-22-5075 MW-01	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	888	3000
Total Dissolved Solids (TDS)	1430	5000
pH	8.37	6.5 – 8.5 (s.u)

If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

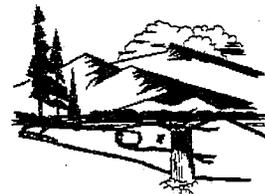
The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: [cbmgroundwater@state.wy.us](mailto:cbmgroundwater@state.wy.us). In addition, the accompanying analytical laboratory reports 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**

**AWV/rm/8-0450**



# 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

May 6, 2008

Dennis O'Brien  
120 S. Dickie  
Kirby, WY 82430

RE: O'Brien Small Waste Water Treatment System - Permit Number 08-269,  
Section 7, T44N, R94W, Hot Springs County

Dear Mr. O'Brien:

The above application for coverage under General Permit to Construct a conventional wastewater treatment and disposal system to serve the three bedroom mobile home with a 625 sq ft leach field has been reviewed and is hereby approved with the following precaution:

- a) Manways on Snyder septic tanks must be extended to the ground surface.

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

If you have any questions, please contact me at 307-332-3144. Please be sure to contact Hot Springs County Planner Lee Campbell at (307) 864-2961 at least 24 hours prior to the beginning of construction

Sincerely,

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

*Steve Warner*  
Steve Warner  
Reviewer

xc: IPS, Cheyenne Lee Campbell, Hot Springs County, 415 Arapahoe Street, Hot Springs, WY 82443

Encl: General permit for one Small Waste Water Systems

Page 1 of 1



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 08-270

REFERENCE PERMIT NO. N/A

South Estates Subdivision Well

This permit hereby authorizes the applicant:

Charles Peak  
P.O. Box 156  
Alcova, WY 82620

to drill, construct, develop and test the South Estates Subdivision Public Water Supply Well according to the procedures and conditions of the application number 08-270. The facility is located in the NW ¼ of the NE ¼ of Section 33, Township 30 N, Range 83 W, in the county of Natrona, Wyoming. The facility is further located south of Wyoming Highway 220 and west of Alcova Reservoir. All construction, installation, or modification allowed by this permit shall be completed within one year of issuance.

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 permit conditions or other operational requirements. Compliance with all applicable 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.

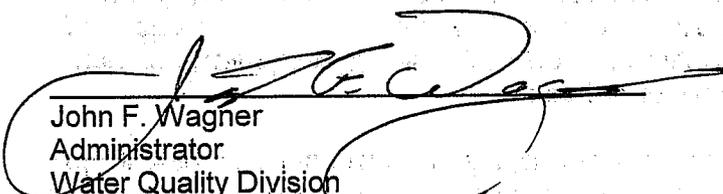
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and

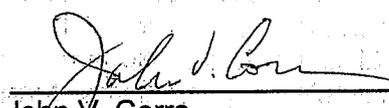
permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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 5 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 5 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 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".
- 4 of 5 Disinfection in accordance with Chapter 12, Section 9(b)(A)(II) shall be performed.
- 5 of 5 The applicant will perform yield and drawdown tests in accordance with Chapter 12, Section 9(b) (ii). Results of these tests are to be provided with the Certificate of Completion.

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

5/22/88  
Date of Issuance

KLF/rm/8-0394

cc: Charles Peak, P.O. Box 156, Alcova, WY 82620

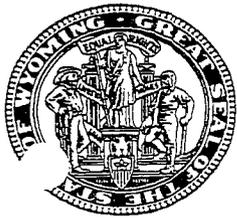
Dave Weinert, P.G., Tetra Tech, 605 N. Warehouse Rd., Casper, WY 82601

## STATEMENT OF BASIS

1. Permit Number: **08-270**
2. Application reviewed for compliance with the following applicable regulations :  
Chapter 3, Chapter 11 & Chapter 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 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 and completed on May 21, 2008. 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."



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 (MODIFIED)

May 9, 2008

Julianna E. Campbell  
1923 D Road  
Moorcroft, WY 82721

RE: Campbell Septic System, Crook County  
Permit # 08-271

Dear Ms. Campbell:

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. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

In addition, the following permit conditions apply:

- 1) Cleanouts are required at all changes in direction 11.25 degrees and greater, both horizontal and vertical. A cleanout is required at the horizontal bend shown in the site plan between the septic tank and the leachfield, and at any vertical bends proposed just before the leachfield.

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

Sincerely,

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

Enclosures: General Permit  
Certificate of Completion

cc: Tim Lyons, Crook County Growth and Development  
Ada Westover, Westover Enterprises, LLC, 1754 D Road, Moorcroft, WY 82721  
IPS, Cheyenne, WDEQ File

Page 1 of 1





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

May 13, 2008

Dwayne Van Vleet  
P.O. Box 114  
Wright, WY 82732

RE: Van Vleet Septic System, Crook County  
Permit # 08-272

Dear Mr. Van Vleet:

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. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

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

Sincerely,

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

Enclosures: General Permit  
Certificate of Completion

cc: Tim Lyons, Crook County Growth and Development  
Josh Franzen, JW Services, 519 State Hwy 116, Sundance, WY 82729  
IPS, Cheyenne  
WDEQ File

Page 1 of 1



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 08-274

REFERENCE PERMIT NO. 06-384, 06-583

Rozet Ranchettes Subdivision Chlorination Treatment System

This permit hereby authorizes the applicant:

Timothy Zebroski  
4402 Collins Road  
Gillette, WY 82716

to construct, install or modify the Rozet Ranchettes Subdivision Chlorination Treatment System, according to the procedures and conditions of the application number **08-274**. The facility is located in the SW ¼ of Section 26, SW ¼ of Section 27, NE ¼ of Section 34, NW ¼ of Section 35, Township 50 North, Range 70 West, approximately 1.9 miles west of the City of Rozet directly south of Highway 14-16. All construction, installation, or modification allowed by this permit shall be completed within one year of issuance.

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.

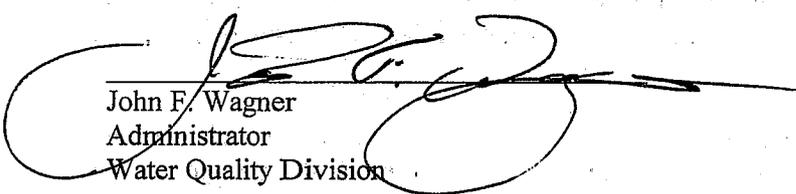
Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations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

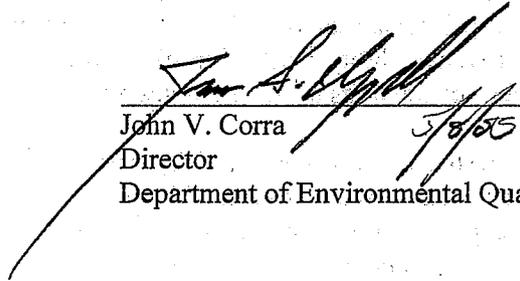
The permittee shall construct and shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or 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

5-9-08  
Date of Issuance

KLF/rm/8-0341

cc: Bill A. Carson, P.E., Wester-Wetstein and Associates, 201 W. Lakeway Road, Suite 1000, Gillette, WY 82718  
Phillip Giffin, Campbell County Department of Public Works, 500 S. Gillette Ave., Suite 1400,  
Gillette, WY 82716

## STATEMENT OF BASIS

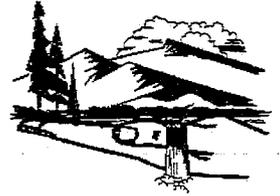
1. Permit Number: **08-274**
2. Application reviewed for compliance with the following applicable regulations :  
Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?  
YES
4. Facilities include components not specifically covered 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 May 5, 2008. 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



Dave Freudenthal, Governor

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

John Corra, Director

## NOTIFICATION OF COVERAGE

June 25, 2008

Philip Smith, Mayor  
Town of Big Piney  
P.O. Box 70  
Big Piney, Wyoming 83113

RE: Plugging and Abandonment of Big Piney Well Nos. 4 & 7 - Permit Number 08-275, Lat 42.538, Lon 110.112, Sublette County

Dear Mr. Smith:

The above application for coverage under General Permits to Construct, public water supply modifications for the abandonment of Big Piney Well Numbers 4 and 7 in Big Piney in accordance with Chapter 3, Section 7, Chapter 12, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

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

Sincerely,

Perry Roberson  
Consulting Engineer  
Water Quality Division

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

xc: IPS, Cheyenne  
Jerry Hunt/ Ben Jordan, Weston Engineering, 1050 N. 3<sup>rd</sup> Street. Suite E, Laramie, WY 82072

Enc: General Permit for a Public Water Supply Distribution System

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 332-3183





# Department of Environmental Quality



Dave Freudenthal, Governor

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

John Corra, Director

## NOTIFICATION OF COVERAGE

June 9, 2008

Mack Bradley  
27 Thirteenth St.  
Marbleton, WY 83113

RE: Spotsylvania Mobile Home Park Addition - Permit Number 08-276, SE1/4SW1/4 Section 20 T30N, R111W, Sublette County

Dear Mr. Bradley:

The above application for coverage under General Permits to Construct a sewer main modification for the new installation of 1065 lineal feet 8-inch PVC sewer line and appurtenances to serve the additional of 13 mobile home residences to the Spotsylvania Mobile Home Park located in Marbleton 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 facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

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

Sincerely,

Perry Roberson  
Consulting Engineer  
Water Quality Division

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

xc: IPS, Cheyenne  
Chad Espenscheid, Arrow Land and Water LLC, P.O. Box 444, Big Piney, WY 83113  
encl: General Permit for a Sewage Collection System



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

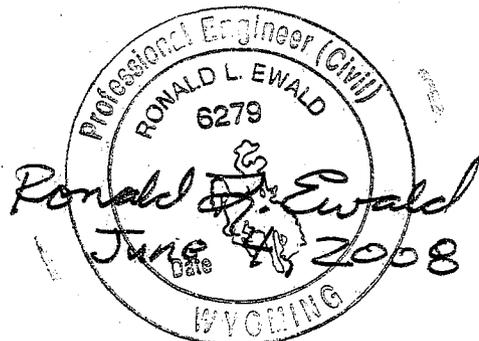
Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002

PROJECT: Perske **AS-BUILT** Residential Septic System  
LOCATION: Part of Section 5, T17N, R83W, **Carbon County**  
ENGINEER: NONE  
APPLICANT: Roger L. Perske  
P.O. Box 1266  
Saratoga, Wyoming 82331  
Ph: (307) 326-3053

WATER QUALITY DIVISION REFERENCE NUMBER: **08-277**

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

DATE OF REVIEW: June 4, 2008



**ACTION:** **NOT AUTHORIZED FOR CONSTRUCTION.** In accordance with Section 12 (a), Chapter III, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

**COMMENTS, INADEQUACIES, AND QUESTIONS:**

1. Site Plan Required - since this application request is for an As-Built permit, a site plan is one of the most critical components of the application. Before this department grants an as-built permit we must have some idea of where it is located on the site. The type of information required on a site plan is shown on the Example Site Plan. Actual physical landmarks such as the house, garage, barn, well, roads, streams, nearest neighbor's house and well, etc. need to be shown on the site plan. Next, the location of the septic tank and leachfield needs to be located on the site plan relative to these other physical landmarks, and property lines too. Because this is an as-built application, you may not know exactly where the septic tank and leachfield lines are, but you must make an attempt to estimate where these septic system components are located. Lastly, distances between or to these features need to be included on the site plan. The critical distances are given on the example page. Exact distances are not expected. Longer distances can be estimated, but shorter distances should be measured as best as possible. The site plan does not have to be drawn to scale.
2. Page 2 of the Application Worksheets Missing - page 2 is missing but I think this was probably just an inadvertent paper handling mix-up. Instead of page 2 there is an "Example - Page 3" where Page 2 should be, which is the reverse side of the Page 2 worksheet. Please submit the actual Page 2 with this response.
3. Percolation Rate / Percolation Test Data - the percolation(perk) information submitted was very minimal, to the point of not being very useful. On an as-built application, when the original perk test data is not available (not just the final results), the DEQ / Water Quality Division(WQD) requires that a new perk test be run around the edges of the estimated location of the leachfield. Therefore, a new percolation test needs to be performed and the raw data submitted to the WQD for review and analysis as part of the as-built application review process.
4. Minimum Required Leachfield Infiltrative Surface Area - on Page 3, item D.3., the minimum infiltrative surface area was miscalculated. When you divide 300 gpd by 0.55 loading factor the correct answer is 545 sq. ft. The square footage that was derived in your calculations was 165 sq. ft., which just happens to be 300 gpd times 0.55 loading factor = 165. The equation is  $[ 300 \text{ gpd} / 0.55 ] = 545 \text{ square feet}$ .

After the new perk test is completed and a new perk rate is determined, the loading factor table must be checked to find the corresponding new loading factor. This new loading factor must then be used to re-calculate the minimum required area. This minimum area is then carried over to the top of Page 5, Item 4.a. to re-calculate the minimum number of *Infiltrator*<sup>TM</sup> chambers required.

---

Please complete the necessary re-calculations after completing the new perk test. A new set of blank worksheets, detail sheets, perk test package, and site plan form are included with this review for you to use.

If you should have any further questions, please call me at the phone # on the cover page.

RLE/rm/8-0439

Enclosures: Blank worksheets, detail sheets, and percolation test package.  
Copy of original application submittal for reference

AS-BUILT  
PERMIT TO CONSTRUCT

X  New

PERMIT NO. **08-277**  
SPECIAL CONDITIONS

Perske AS-BUILT Residential Septic System

This permit hereby authorizes the applicant:

Roger Perske  
224 A C.R. 205  
Saratoga, Wyoming 82331

to have constructed and installed a residential septic system consisting of a 1000 gallon tank system and a 28 unit chamber type leachfield according to the procedures and conditions of the application number **08-277**. The facility is located in the NW 1/4 of Section 5, Township 17N, Range 83W, in the county of Carbon, in the State of Wyoming.

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 discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

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

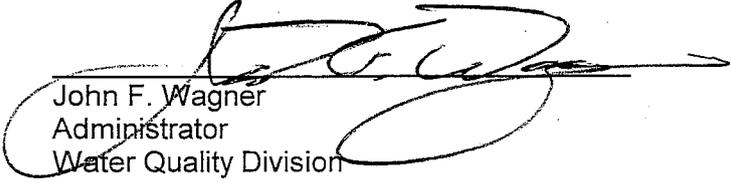
The permittee shall allow authorized representatives from the DEQ, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 has constructed 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.

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

8-26-08

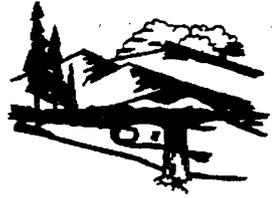
8-26-08  
Date of Issuance

RLE/rm/8-0632

cc: Kent Smith, P.O. Box 684, Saratoga, WY 82331  
Kristy Rowan, Carbon County Acting Planning Director, 215 W. Buffalo Street, #304, Rawlins, WY 82301



# 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

August 21, 2008

Roger Perske  
224 A C.R. 205  
Saratoga, Wyoming 82331

RE: As-Built Permit To Construct, WQD Reference Number: 08-277

Dear Mr. Perske :

The Department of Environmental Quality / Water Quality Division (DEQ/WQD) has reviewed the above referenced As-Built Application submitted by your engineer, Kent Smith. Our review of the information and as-constructed plans submitted to this office indicates that the application meets DEQ/WQD regulations and the enclosed As-Built Permit To Construct is hereby issued. The enclosed permit covers the residential septic system which has already been constructed.

Please be advised that the system must be constructed, installed and operated in accordance with the statements, representations and procedures presented in the application and all supporting documentation as well as the terms and conditions of the permit. You are urged to be familiar with all aspects of the permit application, permit and permit conditions. Any person objecting to a permit issued by the DEQ and desiring affirmative relief may request a hearing before the Environmental Quality Council in accordance with the Rules of Practice and Procedure for the Department of Environmental Quality and the Wyoming Administrative Procedures Act.

Sincerely,

John V. Corra  
Director  
Department of Environmental Quality

JVC/RLE/rm/8-0632

Enclosure: As-Built Permit # **08-277**

cc: Kent Smith, P.O. Box 684, Saratoga, WY 82331



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 08-278

REFERENCE PERMIT NO. 98-249

TOWN OF GUERNSEY WTR SUPPLY SYS TELE UPG  
PWS WY5600023

This permit hereby authorizes the applicant:

Town of Guernsey

to construct, install or modify a telemetry update and correction of cross connections at well houses according to the procedures and conditions of the application number 08-278. The facility is located in 1/4 Section 35 T27N R66W; Platte County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed July 13, 2009.

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

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

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

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

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

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

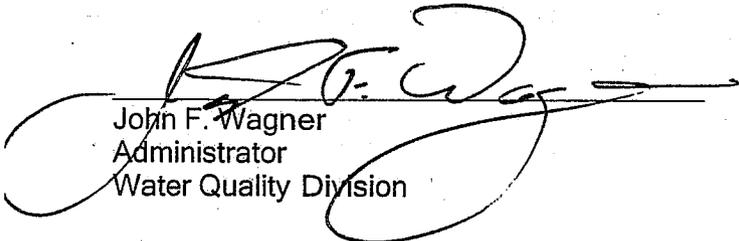
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and

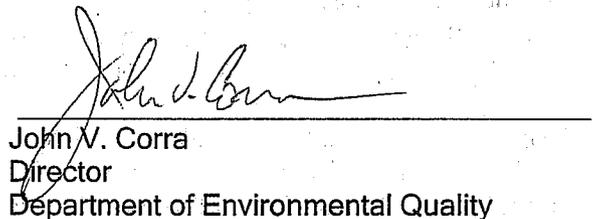
permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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

1. The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7088, FAX 307-777-5973, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
2. An inspection of all well houses for cross connections must be scheduled with the Southeast District Engineer before 1 November 2008. The corrections at Well No. 4 must be approved by a Wyoming licensed engineer and included on an as-built drawing as discussed in condition 3.
3. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY 82002, a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
  - a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
4. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

Date of Issuance 5/19/28

LBH/rm/8-0381

## STATEMENT OF BASIS

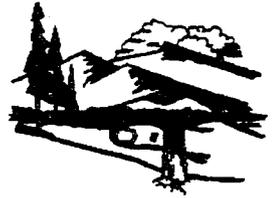
1. Permit Number:       **08-278**
2. This application was reviewed for compliance with the applicable regulations;  
Chapters 3, 12
3. Does the permit comply with all applicable regulations identified above?  
Yes
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 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 Louis Harmon, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on May 19, 2008. 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

May 16, 2008

Mike Wilson  
900 West Yellowstone  
Douglas, WY 82633

RE: Wilson Subdivision Water and Sewer Project  
Application No. **08-279**

Dear Mr. Wilson:

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 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 water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permits, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

The approval granted under this Notification Of Coverage and the General Permit shall expire on October 1, 2009. Please reference Application Number **08-279** in any future correspondence.

If you have any questions, please contact me at (307) 777-6371.

Sincerely,

Brian Mark  
Staff Engineer  
Water Quality Division

BDM/rm/8-0374

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

cc: Frank Strong, M.C. Schaff & Associates, PO Box 1340, Douglas, WY 82633

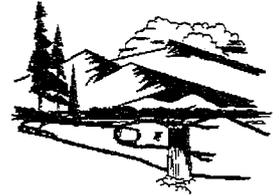
Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

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



Dave Freudenthal, Governor

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

John Corra, Director

June 16, 2008

Wally Johnson, Chairman  
Sweetwater County Board of Commissioners  
80 West Flaming Gorge Way  
Green River, WY 82935

Subject: Non-Adverse Recommendation, Sweetwater Business Park Subdivision,  
Sweetwater County, DEQ/WQD Application # 08-281

Dear Mr. Johnson:

The Wyoming Department of Environmental Quality has completed the review of the proposed Sweetwater Business Park Subdivision located in the SW 1/4 Section 33, T19N, R105W, 6<sup>th</sup> P.M., Sweetwater County, Wyoming. Generally described, the property is west of the City of Rock Springs, Wyoming. The Sweetwater Business Park Subdivision will create four industrial lots out of 20 acres. The information was submitted by UESI/Rock Springs, signed by Robert Young, P.E., a Wyoming Licensed Engineer. This letter represents the recommendations of the Wyoming Department of Environmental Quality as required by W.S. 18-5-306(c).

**Findings as to the safety and adequacy of the proposed sewage system:**

The proposed sewage systems are to be on-site conventional septic systems with leach fields. The information submitted addresses the safety and adequacy of the proposed sewage system.

**Findings as to the safety and adequacy of the proposed water system:**

The proposed water system is to be a central water supply system, Clearview Improvement District, (WY5600091) which procures water through the Rock Springs - Green River - Sweetwater County Joint Powers Water Board Pipeline. The information submitted addresses the safety and adequacy of the proposed water system.

**Notes required to be added to the final plat, and other pertinent documents:**

It is the Individual lot owner's responsibility to contact the Sweetwater County Environmental Health Service (307-352-6709) at 550 Uinta Drive, Suite D, Green River, WY 82935 to obtain a Permit to Construct to authorize the construction of a septic system with leach field.



Sweetwater County Board of Commissioners  
June 16, 2008

**Conclusions:**

The Department of Environmental Quality has "Non- Adverse" recommendations applicable to Sweetwater Business Park Subdivision.

**Disclaimer:**

The Non-Adverse recommendation provided above has nothing to do with, nor has any bearing on the water rights associated with Sweetwater Business Park Subdivision. Any questions or concerns about the water rights for Sweetwater Business Park Subdivision should be directed to the State Engineer's Office.

Nothing in Department of Environmental Quality recommendations or comments regarding UESI/RockSprings proposal, for Sweetwater Business Park Subdivision shall be construed to relieve Mr. Colby Hackbarth of the obligation to obtain any permits or additional approval from any local, state or federal agencies as required by law, rules, regulations, or ordinances. Nothing in these recommendations commits the Department of Environmental Quality or Sweetwater County to the issuance of required permits for construction, operation, or modification of water supply or sewage systems.

Sincerely,



Mark Baron, P.E.  
Southwest District Supervisor  
Water & Wastewater Program, Water Quality Division

MDB/srw

xc:

Robert Young, P.E., UESI/Rock Springs, 2638 Commercial Way., Rock Springs, WY 82901  
Colby Hackbarth, 153 N. 466 East, Rigby, ID 83442  
Mark Kot, Sweetwater County Planning & Zoning, 80 West Flaming Gorge Way, Green River, Wyoming 82935  
Mr. Mike Ebsen, Water Management Specialist, Wyoming State Engineers Office, Herschler Building, 4<sup>th</sup> Floor East, Cheyenne, WY 82002  
IPS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 08-282

Cottonwood Flats Subdivision Water & Sewer Mains

This permit hereby authorizes the applicant:

Erik Bedford, Managing Member  
Cottonwood Flats, LLC  
P.O. Box 2858  
Jackson, WY 83001

to install 8-inch water mains, 8-inch sewer mains, a small sewer lift station and 4-inch forced sewer main to serve a 65-unit subdivision; according to the procedures and conditions of the application number 08-282. The facility is located within Section 6, T40N, R117W in the county of Teton, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by June 30, 2010.

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

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

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

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

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

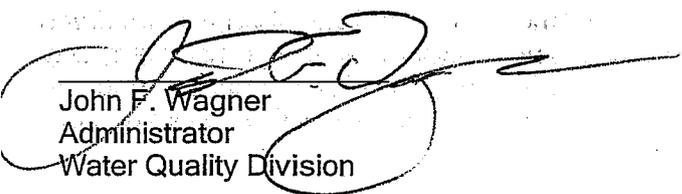
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

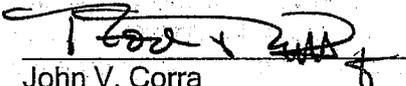
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

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

- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Northwest District Engineer, 510 Meadowview 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

6-10-08  
Date of Issuance

JSB/rm/8-0457

## STATEMENT OF BASIS

1. Permit Number: 08-282
2. Application reviewed for compliance with the following regulations:  
Chapters 3, 11, 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 systems and sewage collection systems 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](mailto:jbroug@state.wy.us), Northwest District Engineer and completed on June 9, 2008. 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."

Xc: Evan Simpson, P.E., Sunrise Engineering, P.O. Box 609, Afton, WY 83110  
Shawn O'Malley, P.E., Town of Jackson, P.O. Box 1687, Jackson, WY 83001



# Department of Environmental Quality



Dave Freudenthal, Governor

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

John Corra, Director

May 23, 2008

Big Horn County Board of Commissioners  
P.O. Box 31  
Basin, WY 82410

RE: Non-Adverse Recommendation, Gil Smith Subdivision, Big Horn County, DEQ/WQD.  
Application #08-283

Dear Commissioners:

The Wyoming Department of Environmental Quality (WDEQ) has completed the review of the above referenced subdivision pursuant to W.S. 18-5-306. This letter constitutes our conclusions regarding the feasibility of the proposed water and sewage systems pursuant to the W.S. 18-5-306 (c).

### Summary of Proposed Subdivision

This proposed development is located approximately two and a half miles east, southeast of the Town of Shell in Big Horn County. This application proposes to subdivide an existing 17.69 acre tract into 4 lots, ranging from 2.8 to 6.17 acres in size. Onsite wells and septic systems are proposed for all individual lots within the proposal.

### Findings as To the Safety and Adequacy of the Proposed Sewage System

Individual onsite septic systems are proposed for all 4 lots. DEQ concurs with the consultant that based on the lot size, density and subsurface conditions, on-site septic systems are adequate for the proposed development. The report states the groundwater depth at Lot 3 was encountered at the 9-foot depth and that seasonally high groundwater depth would likely be higher. DEQ concurs that the leachfields should not be installed deeper than 3 feet below the ground surface to maintain a four-foot minimum vertical separation distance between the bottom of the leachfield and seasonally high groundwater depth and to promote an aerobic environment (e.g. with oxygen) within the leachfield.

Since Big Horn County has been delegated by the department to issue small wastewater system permits, it is the county's responsibility to ensure, prior to issuing the permits that all permit requirements and design standards will be met. If an enhanced small wastewater treatment facility is used, WDEQ must be involved in the small wastewater permit approval process by reviewing the design and providing comments to the Big Horn County small wastewater system administrator.

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 332-3183



## Findings as To the Safety and Adequacy of the Proposed Water System

Individual on-site wells are proposed for this development. The consultant recommends the following: 1) wells on lots 3 and 4 must be south to southeast of the leachfields, 2) wells shall be screened at the bottom of the aquifer 3) no well or leachfield shall be placed within 50 feet of the property lines and 4) chlorination is not required, but recommended. DEQ concurs with these recommendations.

### Conclusion(s):

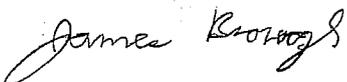
WDEQ has "no adverse" recommendations for the proposed subdivision provided that the recommendations mentioned in this letter are appropriately adhered to.

### Disclaimer

Nothing in WDEQ's recommendations or comments regarding the subdivider's proposal shall be construed to relieve the subdivider of their obligation to obtain any permits or additional approval from any local state or federal agencies/entities as required by law, rules and regulations, or ordinance. Nothing in these recommendations commits the WDEQ or the delegated county to the issuance of required permits for construction, operation, or modification of water supply and/or wastewater systems. It is the duty of the subdivider/developer to comply with all applicable federal, state and local requirements.

Please do not hesitate to contact me at (307) 332-3144 if you have any questions on the recommendations or need any assistance on how to proceed with this application.

Sincerely,



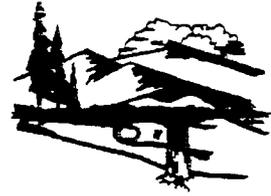
James Brough, P.E.  
Northwest District Engineer  
Water Quality Division

cc: Tom Pilch, P.E., Pilch Engineering, 41 East Burkitt St., Sheridan, WY 82801  
Jim Waller, Big Horn County, P.O. Box 29, Basin, WY 82410  
Mike Ebsen, State Engineer's Office, Herschler Building, 4-E, Cheyenne, WY 82002  
DEQ Subdivision File; w/ enclosure

*EPS*



# 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 20, 2008

Matt Driskill  
Devils Tower KOA Campground  
P.O. Box 100  
Devils Tower, WY 82714

RE: UIC 08-284, Leach field  
Class V injection well application, Crook County

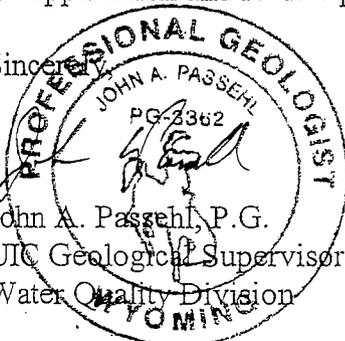
Dear Mr. Driskill:

Attached, please find comments developed by the Wyoming Department of Environmental Quality (WDEQ) with respect to the content and adequacy of the Wyoming Water Quality Rules and Regulations, Chapter 16, Class V permit application.

The WDEQ received this application on April 26, 2008. The WDEQ sent a review letter dated June 26, 2008. Additional information was received August 11, 2008. Re-submittal of information by an applicant on an incomplete application will begin a new 60 day review process. Pursuant to Chapter 16, Section 6(h), during any 60 day review period where an application is determined complete, a draft permit for issuance or denial shall be prepared and a public notice provided pursuant to Chapter 16, Section 13.

Please feel free to contact me at (307) 777-5623 should you have any questions related to these comments or the application and review process.

Sincerely,



John A. Passehl, P.G.  
UIC Geological Supervisor  
Water Quality Division

JP/bb/8-0922

Attachments: WDEQ Comments

c: Ben Jordan, P.G., Weston Engineering, 1050 N. 3<sup>rd</sup> Street, Suite E, Laramie, WY 82072  
Kevin Frederick, WDEQ  
Pete Vogel, WDEQ  
Ron Ewald, WDEQ



UNDERGROUND INJECTION CONTROL PROGRAM  
REVIEW COMMENTS:  
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION

Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002  
307-777-7781

PROJECT: UIC 08-284  
Devils Tower KOA Class V injection well application

LOCATION: Crook County

APPLICANT: Matt Driskill  
P.O. Box 100  
Devils Tower, Wyoming, 82714

OWNER: Matt Driskill

CONSULTANTS:

GEOLOGIST Benjamin Jordan, P.G.  
Weston Engineering

ENGINEER Jerry McHart, P.E.  
Weston Engineering

TITLE: "Devils Tower KOA Septic System"

PLANS     SPECS     PROPOSAL     REPORT

DATE ON PROPOSAL/PLANS/REPORT: July 31, 2007

DATE RECEIVED BY WDEQ: April 28, 2008

WDEQ REVIEWER: John A. Passehl, P.G.                      Ron Ewald, P.E.  
PROFESSIONAL GEOLOGIST                      PROFESSIONAL ENGINEER

DATE OF THIS REVIEW: November 12, 2008, November 20, 2008

ACTION: Application Incomplete; See Attached Comments

**I. WDEQ Comments:**

Specific Comments - Additional Information Required (**John Passehl: 777-5623**)

1. The area of review on **Plate 2** appears to be too small. The area of review for large septic systems should be a circle with an area of 360 acres (reference Class V application form < 10,000 gpd). The leach field should be centered within the 360 acre circle that has a radius of 2,234 feet. Please revise **Plate 2**.
2. The proposed monitor wells identified on **Plate 2** of the application are not sited correctly to monitor impacts to groundwater. Please locate two monitor wells downgradient from the leachfield on the edge of the area of review and one monitor well upgradient from the leachfield on the edge of the area of review. Note you may use the existing public supply well in lieu of an upgradient monitor well. Please indicate where the public supply well is located on **Plate 2**.
3. Comments attached from Ron Ewald, P.E.

JP/bb/8-0922

ENGINEERING REVIEW OF UIC PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002

FOR: John Passehl

PROJECT: Devils Tower KOA Campground **UIC** Septic Sys. Engineering Review  
– 5E3 Sewage Disposal System

LOCATION: NE¼ SE¼ SW¼, Section 8, T53N, R65W, **Crook County**

ENGINEER: Jerry M. Hunt, Wyoming P.E. # 5642  
Weston Engineering, Inc.  
P.O. Box 260  
Upton, Wyoming 82730  
Ph: (307) 468-2427

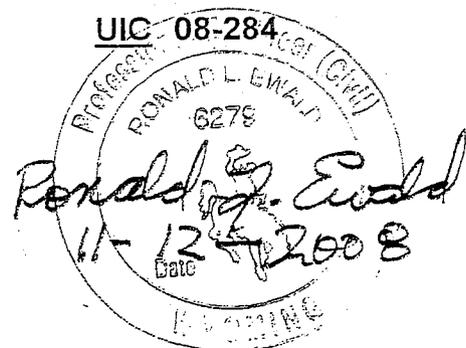
GEOLOGIST: Ben J. Jordan, Wyoming P.G. # 3458  
Weston Engineering, Inc.  
1050 North 3<sup>rd</sup> Street, Suite E  
Laramie, Wyoming 82072  
Ph: (307) 745-6118

APPLICANT: Devils Tower KOA Campground  
Attn. Matt Driskill, President  
P.O. Box 100  
Devils Tower, Wyoming 82714  
Ph: (307) 467-5395

WATER QUALITY DIVISION REFERENCE NUMBER:

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

DATE OF REVIEW: 11-12-08



1. 2<sup>nd</sup> Technical Engineering Review Extent - the extent of this technical engineering review is of the new Devils Tower KOA Campground on-site wastewater treatment and disposal system which includes some components of the existing system

(which has had recent indications of failure) combined with new components. The review begins where the effluent delivery pipe empties the raw sewage into the existing 18,000 gallon septic tank. From there the septic tank effluent will flow to a NEW 1900 gallon, 8 foot diameter pump station which will be fitted with a new  $\frac{3}{4}$  hp pump. From the pump station there is approximately 1750 feet of new 3" PVC pipe to a 500 gallon concrete distribution box (D-box). From this D-box the effluent is divided into multiple streams through multiple layers of d-boxes and delivered to 70, individual 63 foot long gravity fed trenches of 10 each, *Infiltrator*<sup>™</sup>, Standard model, chamber leachfield units. These 70 trenches cover an area of approximately 70 feet by 430 feet with 3 feet of undisturbed soil between all of the trenches.

Additionally, a new 2000 gallon grease interceptor tank is being added right at the office/restaurant location to keep the grease isolated from the rest of the collection and treatment system.

## ENGINEERING REVIEW COMMENTS:

2. Existing 18,000 Gallon Septic Tank - First, it turns out that the operating liquid volume of this tank is really only about 15,000 gallons – not 18,000 gallons. The tank is a two compartment tank and was approved as part of a previous Permit to Construct # 89-323R, and as part of a previous UIC Permit # UIC WYS 011-008. A variance from the 36 hour retention time requirement was requested on the basis that the average park occupancy rate is 41% of capacity from historical records. This being the case, then the normal daily peak flow rate would only be 41% of the 100% occupancy peak design flow rate of 14,125gpd. Using 41% of 14,125, an average occupancy daily flow rate would be only about 6,000gpd. At 6,000gpd the retention time would be about 60 hours (15,000 gal / 6,000gpd). Additionally, 36 hours retention time would correspond to a daily flow rate of 10,000gpd, or about 71% of full park capacity.

The request for the variance from the 36 hour retention time based on the 100% capacity peak design flow seems reasonable, and is agreed to by the Water & Wastewater Section of the WQD. The existing "Large" septic tank can remain in use at it's current size.

Additionally, the downward leg of the PVC outlet tee must be extended into the middle third of the liquid depth to prevent floating or settled solids from carrying over into the disposal field. The downward leg of the outlet tee appears much to short on the plans as submitted.

3. Pump Station - the resized and redesigned pump station is OK, **except for one major issue**. It is designed with only one pump physically in the wet well at a time. This means that if the pump fails there will be an immediate problem. At average park flow rates of 41% of peak occupancy rates, the wet well may begin to overflow at the ground surface in about 11 hours. Plus, if it was already full of effluent and

gas, it could be very difficult to put in a new pump, especially when electrical connections have to be reestablished.

If you have any question, please feel free to call me at the phone number listed above.

**Recommendation to John Passehl:** at this time this application as re-submitted does not meet the minimum requirements and standards of Chapter 11 of the Water Quality Rules & Regulations. The major shortcoming is the lack of a second pump physically in the wet well of the pump station as a back up or alternate pump with the necessary electrical wiring and controls. This second pump in the wet well needs to be required. A minor concern is the extension of the outlet tee downward into the existing "Large" septic tank liquid. It should also be added as a recommendation (not a requirement because this is an RV Park and Campground which can be closed and shut down if necessary) that the facility consider having an alternative or backup power supply for the pump station on-site and ready to go, such as a small generator on a trailer.

Therefore, **the recommendation** of this reviewer is that the technical design of the UIC septic system detailed in item #1 above **is not approvable as submitted**. It is close, and should be relatively easy to fix, but it is not quite ready for approval yet.

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

CLASS V INJECTION WELL

( ) New  
(X) Modified (Renewal)

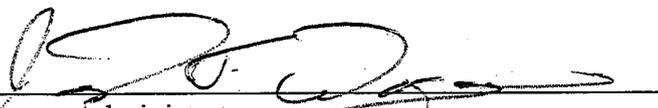
Permit Number 08-284  
Previous Permits 89-323, 5E3-98-1  
Facility Number WYS-011-00022

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

Applicant: Devils Tower KOA Campground  
Attn: Matt Driskill, President  
P.O. Box 100  
Devil's Tower, WY 82714  
(307) 467-5395

Devils Tower KOA Campground, hereafter referred to as the permittee, is authorized to operate the replacement septic system in the SW $\frac{1}{4}$  of the SE $\frac{1}{4}$  of Section 8, Township 53 North, Range 65 West, of the 6<sup>th</sup> Principal Meridian, Crook County, according to the procedures and conditions of application 08-284 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

  
\_\_\_\_\_  
John Wagner, Administrator  
Water Quality Division  
Herschler Building, 122 West 25<sup>th</sup> Street  
Cheyenne, WY 82002  
(307)-777-7781

5/18/09  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
John V. Corra, Director  
Department of Environmental Quality  
Herschler Building, 122 West 25<sup>th</sup> Street  
Cheyenne, WY 82002

5/18/09  
\_\_\_\_\_  
Date

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### A. Discharge Zone

This injection facility (sanitary leach field system) is authorized to inject 6,419 gallons/day average, and 14,175 gallons/day maximum from a campground facility and restaurant into the quaternary alluvial aquifer which is found within 30 feet of land surface.

### B. Well and Area of Review

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

SW $\frac{1}{4}$  of SE $\frac{1}{4}$  of Section 8, Township 53 North, Range 65 West, 6<sup>th</sup> Principal Meridian

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

The Area of Review is based upon the following assumptions:

**Table 1 (Area of Review Inputs)**

Description	Inputs	Units
Permit Duration	10	Years
Porosity	30	Percent
Maximum Injection Rate	14,175	GPD
Thickness of Receiver	18	Feet
Area of Review	360	Acres
Hydraulic Conductivity	7.5	Feet/Day

### C. Groundwater Classification

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

### D. Authorized Operations

The permittee is authorized to continue injecting 6,419 gallons/day average, and 14,175 gallons/day maximum, of wastewater into the existing injection well system. The wastewater is described as secondary treated domestic sewage.

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

### **E. Hazardous Waste**

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

### **F. Proper Operation and Maintenance**

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

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

### **G. Entry and Inspection**

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

### **H. Environmental Monitoring Program for Groundwaters of the State**

#### General Requirements:

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall retain records of all monitoring information including all calibration and maintenance records, copies of the reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from

the date of the sample measurement, report, or application. This period may be extended by request of the Administrator at any time.

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

9. The monitoring reports shall be submitted on forms provided by the Department. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 45 days following each schedule date.

**I. Requirements for Monitoring the Discharge**

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

**Table 2 (Semi-Annual Groundwater Sampling Schedule)**

WELL NAME OR NUMBER	SAMPLING SCHEDULE	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT or UCL
MW-1 MW-2 MW-3	Once prior to the end of each semi-annual period	Ammonia as N	SM 4500 NH <sub>3</sub> H	0.50 mg/L
		Chloride	SM 4500 CL'B	250 mg/L
		Nitrate	SM 4500 NO <sub>3</sub> E	10 mg/L
		Total Volume Injected	Flow meters	8,000 gpd
		Top of casing elevation (ft)	Casing elevation must be surveyed	Not applicable
		Depth to static water (ft)	Steel tape with chalk or electronic tape	Not applicable

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

All annual reports are to be reported within forty-five (45) days of the last day of the year. Sampling periods are identified as follows: 01/01-06/30, 07/01-12/31.

The above upper control limit (UCL) cannot be exceeded in any sample. Exceedance of this value is a violation of this permit and shall require notification under Section K of this permit. Failure to perform and report analyses in accordance with the prescribed schedule and method is also a violation of this permit.

**J. Test Procedures**

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

## **K. Records and Reports**

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

## **L. Permit Actions**

This permit is issued for a period of ten (10) years. The operator must renew this permit prior to the expiration date if he/she wishes to inject after the expiration date of the permit. Under this permit, the Department may consider injection after the expiration date a violation of the permit. It shall not be a defense for the permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

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

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

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

## **M. Abandonment**

### Specific Requirements:

1. Existing monitoring wells, MW-1, MW-2, and MW-3 are to be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 11, Part G.

### General Requirements:

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

## **N. Duties of the Permittee**

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

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

## O. Signatories Requirement

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

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

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

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

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

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

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

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

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

**THIS SPACE INTENTIONALLY LEFT BLANK**

## **P. Noncompliance**

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

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

## **Q. Permit Transfer**

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

## **R. Property Rights**

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

## **S. Severability**

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

AN/bb/9-0395

STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

- A. UIC Permit Number: 08-284
- B. Facilities Covered: Devils Tower KOA Campground
- C. Class of Facility: Class V (Wyoming Water Quality Rules and Regulations, Chapter 16)

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

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

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

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

Yes

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

No

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

Not Applicable

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

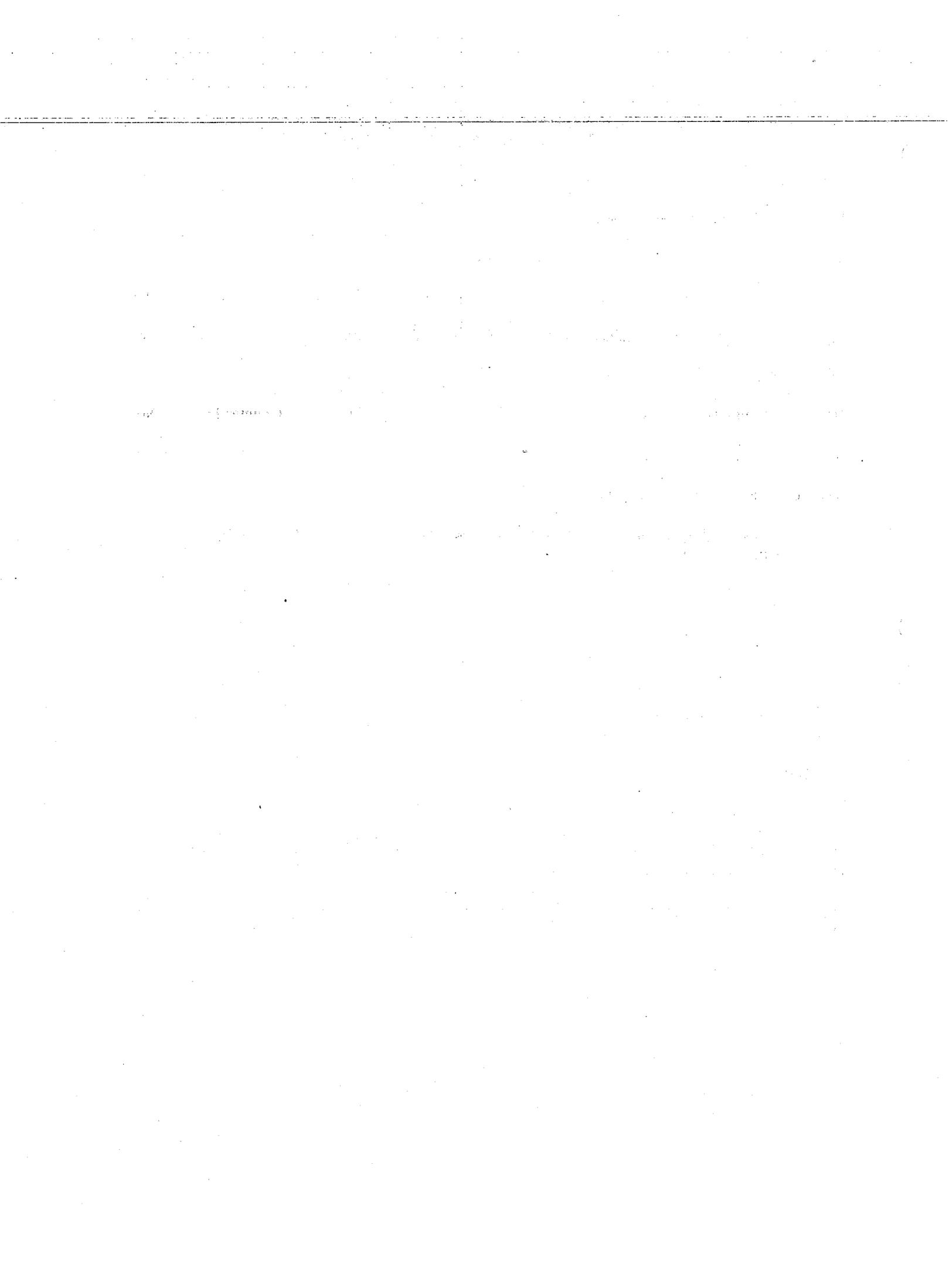
Applicable. A groundwater review has been conducted to insure that no groundwater will be impacted by this system.

VI. Documentation of Statement of Basis.

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

VII. Applicant and Public Participation

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



- B. A Public Notice has been issued with a public notice period starting April 2, 2009 and ending on May 2, 2009 (30 day notice as required by Wyoming Water Quality Rules and Regulations, Chapter 16). This notice was published in the Casper Star Tribune on or before the start of the public comment period.

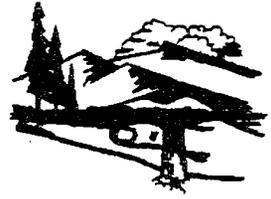
#### CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Wyoming Water Quality Rules and Regulations, Chapter 16, Section 6. This review was performed by Adrienne D. Nunn, Engineering Consultant, and completed on March 24, 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".

AN/bb/9-0395



# 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

May 19, 2009

Devils Tower KOA Campground  
Attn: Matt Driskill, President  
P.O. Box 100  
Devil's Tower, WY 82714

RE: Devils Tower KOA Campground  
Permit **08-284**, Class V Septic System  
Crook County, Wyoming

Dear Mr. Driskill:

Attached please find one copy of the Class V permit for the above referenced facility. This permit requires sampling on a semi-annual basis and reporting on an annual basis within 45 days of the end of each calendar year. Also, Section M of the permit requires the existing monitoring wells to be plugged and abandoned.

The permit application, draft permit, final permit, public notice, and report forms are available for review on the GEM website <https://gem.trihydro.com>. The corresponding report forms can be filled out using our on-line webform (Monitor Reports Link), or one may have the lab submit them using EQUIS Electronic Data Deliverable (EDD).

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

If you have any questions please do not hesitate to contact me at (307) 777-6428, [anunn@wyo.gov](mailto:anunn@wyo.gov) or at the address listed below.

Sincerely,

Adrienne Nunn, EIT  
Engineering Consultant  
Water Quality Division

ADN/rm/9-0397

Enclosures: Permit

cc: Weston Engineering, Jerry Hunt, P.E., P.O. Box 260, Upton, WY 82730  
Kevin Frederick, WDEQ

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

April 1, 2009

Devils Tower KOA Campground  
Attn: Jerry Hunt, PE  
P.O. Box 260  
Upton, WY 82730

RE: Devils Tower KOA Campground  
Draft Permit 08-284, Class V Septic System  
Crook County, Wyoming

Dear Mr. Hunt:

The Devils Tower KOA Campground has submitted an application for a permit renewal of a large septic system that injects into the alluvial aquifer located in Section 8, T53N, R65W. This agency has written a Draft Permit which is enclosed.

The permit application, draft permit, and public notice are available for review on the GEM website <https://gem.trihydro.com>.

Please review this application and submit your comments within the next 45 days.

Sincerely,

Adrienne D. Nunn  
Engineering Consultant  
Water Quality Division

ADN/rm/9-0257

Enclosure: Draft Permit  
cc: Matt Driskill, P.O. Box 100, Devils Tower, WY 82714

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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STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

- A. UIC Permit Number: **08-284**
- B. Facilities Covered: Devils Tower KOA Campground
- C. Class of Facility: Class V (Wyoming Water Quality Rules and Regulations, Chapter 16)

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

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

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

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

Yes

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

No

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

Not Applicable

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

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

VI. Documentation of Statement of Basis.

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

VII. Applicant and Public Participation

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

- B. A Public Notice has been issued with a public notice period starting April 2, 2009 and ending on May 2, 2009 (30 day notice as required by Wyoming Water Quality Rules and Regulations, Chapter 16). This notice was published in the Casper Star Tribune on or before the start of the public comment period.

#### CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Wyoming Water Quality Rules and Regulations, Chapter 16, Section 6. This review was performed by Adrienne D. Nunn, Engineering Consultant, and completed on March 24, 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".

ADN/rm/9-0257



**I. WDEQ Comments:**

Specific Comments - Additional Information Required (**John Passehl: 777-5623**)

1. The following table contains parameters and reporting frequencies that are specific to your new Class V (5E3) permit for **Monitoring Wells #1, #2, and #3.**

**Monitor Report Schedule**

<b>Parameter Analyzed</b>	<b>Sampling Schedule</b> (January-June; July-December)	<b>Report Schedule</b> (Submitted by February 14)	<b>MCL (mg/L)</b>
Nitrate	Semi-Annual	Annual	10.0
Ammonia	Semi-Annual	Annual	0.5
Chloride	Semi-Annual	Annual	250
Fecal Coliform Bacteria (public supply well only)	Semi-Annual	Annual	0/100 mL
Static Water Level Elevation	Semi-Annual	Annual	None (feet)

2. Please provide a statement that all injection and monitoring wells will be constructed, plugged and abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 11, Part G.
3. Please provide a copy of the existing septic system permit. We cannot locate an existing permit for this facility. Is this project related to the Devil's Tower Trading Post?
4. Comments attached from Ron Ewald, P.E.

JAP/rm/8-0505

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

Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002

FOR: John Passehl

PROJECT: Devils Tower KOA Campground **UIC** Septic Sys. Engineering Review  
– 5E3 Sewage Disposal System

LOCATION: NE¼ SE¼ SW¼, Section 8, T53N, R65W, **Crook County**

ENGINEER: Jerry M. Hunt, Wyoming P.E. # 5642  
Weston Engineering, Inc.  
P.O. Box 260  
Upton, Wyoming 82730  
Ph: (307) 468-2427

GEOLOGIST: Ben J. Jordan, Wyoming P.G. # 3458  
Weston Engineering, Inc.  
1050 North 3<sup>rd</sup> Street, Suite E  
Laramie, Wyoming 82072  
Ph: (307) 745-6118

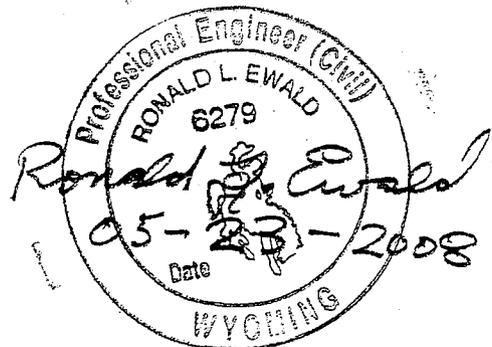
APPLICANT: Devils Tower KOA Campground  
Attn. Matt Driskill, President  
P.O. Box 100  
Devils Tower, Wyoming 82714  
Ph: (307) 467-5395

WATER QUALITY DIVISION REFERENCE NUMBER: **UIC 08-284**

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

DATE OF REVIEW: 05-22-08

ENGINEERING REVIEW COMMENTS:  
( on following pages )



1. Technical Engineering Review Extent - the extent of this technical engineering review is of the new Devils Tower KOA Campground on-site wastewater treatment and disposal system which includes some components of the existing system (which has had recent indications of failure) combined with new components. The review begins where the effluent delivery pipe empties the raw sewage into the first septic tank. The system review continues with a second new septic tank and then the existing 18,000 gallon septic tank to the existing 500 gallon pump station which will be retrofitted with a new pump. From the pump station there is approximately 1700 feet of new 3" PVC pipe to a 500 gallon concrete distribution box (D-box). From this D-box the effluent is divided into multiple streams and delivered to a 400 foot long, 11 trench, gravity, *Infiltrator*<sup>TM</sup> chamber leachfield.
  
2. Septic Tank and/or Tanks - First let us discuss the existing 18,000 gallon septic tank. The report describes this tank as a semi-cylindrical fiberglass septic tank, but there is no end view of this tank on the plan drawings to indicate what this semi-cylindrical shape is or how wide the tank is. The width needs to be known so that the length to width ratio (l/w) can be determined. The l/w ratio must be at least 2 to 1 for a single compartment tank. Until we receive more detail on the configuration and dimensions of the unusual baffle arrangement near the center of the tank, this tank will have to be considered a single compartment tank. Information needed on the baffle are all dimensions; length and extension of each arm into tank, are the ends at the same level, horizontal spacing between the arms, and the distance each arm is from the end walls of the tank. Also, what are the baffle arms made of and how are they supported, and are still actually in place?

Secondly, two new smaller tanks, a 1000 and a 2250 gallon, were added to the flow train in the design plan submitted. Both of these tanks were inserted upstream of the existing 18,000 gallon tank which cannot be allowed because the Water Quality Rules and Regulation (R&R) require that the first chamber of a septic tank (or a group of septic tanks in series) be at least 50% of the total volume of the tank or tanks {Chapter 11, Section 39(a)(iii)(B)}. However, since there is a restaurant at the far end of one of the collection lines, it is recommended that one of these tanks be used as a grit and grease trap and be placed on the waste line from the kitchen. The 1000 gallon tank would be better because the 2250 gallon tank does not meet the 2-to-1 length to width ratio, or the 20% scum space above the liquid requirements.

In the report, it is requested that this facility be granted a variance from the 36 hour retention time regulation which results in the need for the two additional smaller tanks. The request is based on the assertion that because this is a campground it is very rare, if ever, that absolutely all of the various available camping spaces (RV, tent, and KOA Kabins) that the design flow is based on, will all be full at the same time. In fact, the campground has maintains occupancy records that indicates that the average occupancy rate for all facilities is 41%. Therefore, based on this actual historical data for this facility, the DEQ/WQD is inclined to grant this variance, but

only after receiving the additional information on the existing 18,000 gallon tank requested above.

3. Lower Shower House - it appears from the flow schematic that the sewage waste from this building empties directly into the 500 gallon pump station without first going through the septic tank. Raw sewage cannot be discharged directly into the pump station, it must be inputted to a septic tank. Please provide more detailed information on this situation.
4. Pump Station - the report says that the pump station will be retrofitted with a ¾ HP effluent pump rated to pump 50 gpm against 40 feet of total dynamic head. The WQD needs to see the data and calculations justifying this choice. What is the elevation rise from the pump elevation to the delivery point at the 500 gallon concrete D-box? How long is the 3" PVC delivery pipe between the two stations and how much friction head loss will there be? Also, please supply performance curves for the pump selected.

Secondly, the pump station itself is much too small. For a pump station pumping at around 50 gpm and 400 gallons per cycle the pump chamber should be large enough or deep enough to meet the following minimum standards:

- 400 gallons between Off & On switches,
- 100 gallons between On & High water Alarm (alarm above on switch),
- 800 gallons between Alarm switch & the Tank Inlet.

Therefore, the existing pump station is much too small and not anywhere deep enough (at a 4 foot diameter), and a new pump station must be installed to replace it. The new pump station could be a larger diameter so that the pump vault would not have to be so deep. Another suggestion is that dual pumps be considered with a secondary on switch at a little higher level, or the controls could be set-up to alternate the pumps. Also, with dual pumps much less than the 800 gallon volume between the inlet pipe invert and the high water alarm level would be required.

5. Leachfield - the leachfield is designed as a 400 foot long, 11 trench, gravity, chamber leachfield. Gravity chamber trenches do not work much beyond 100 feet long, if that much. Therefore, for 400 foot long chamber trenches to work they must be pressure dosed. Either a completely new concept for a gravity leachfield needs to be submitted, or a design for a pressure dosed system needs to be submitted. Control systems and switching equipment can be purchased so that only a few legs of the leachfield can be dosed at one time. This can cut down on the volume of the slug of effluent that needs to be pumped during any one cycle, thereby influencing the choices of pumps and the design volume of the pump chamber.

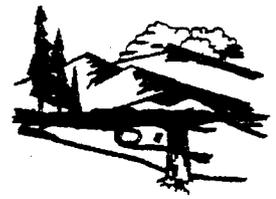
If you have any question, please feel free to call me at the phone number listed above.

**Recommendation to John Passehl:** at this time this application is incomplete and much of the design as submitted does not meet the minimum requirements and standards of Chapter 11 of the Water Quality Rules & Regulations. Additionally, the 400 foot long gravity chamber leachfield design is conceptually not functional.

Therefore, **the recommendation** of this reviewer is that the technical design of the septic system detailed in item 1 above **is not approvable**.



# 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

June 26, 2008

Matt Driskill  
Devils Tower KOA Campground  
P.O. Box 100  
Devils Tower, WY 82714

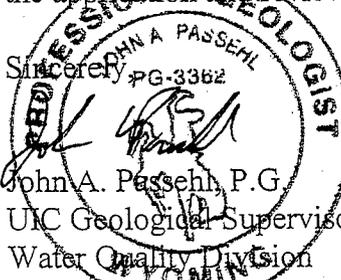
RE: UIC 08-284, Leach field  
Class V injection well application, Crook County

Dear Mr. Driskill:

Attached, please find comments developed by the Wyoming Department of Environmental Quality (WDEQ) with respect to the content and adequacy of the Wyoming Water Quality Rules and Regulations, Chapter 16, Class V permit application.

The WDEQ received this application on April 26, 2008 and has until June 26, 2008 to make an initial determination of completeness (60 days). Re-submittal of information by an applicant on an incomplete application will begin a new 60 day review process. Pursuant to Chapter 16, Section 6(h), during any 60 day review period where an application is determined complete, a draft permit for issuance or denial shall be prepared and a public notice provided pursuant to Chapter 16, Section 13.

Please feel free to contact me at (307) 777-5623 should you have any questions related to these comments or the application and review process.

Sincerely,  
  
 John A. Passehl, P.G.  
 UIC Geological Supervisor  
 Water Quality Division

JAP/rm/8-0505  
Attachments: WDEQ Comments

cc: Ben Jordan, P.G., Weston Engineering, 1050 N. 3<sup>rd</sup> Street, Suite E, Laramie, WY 82072  
Kevin Frederick, WDEQ  
Pete Vogel, WDEQ  
Ron Ewald, WDEQ

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

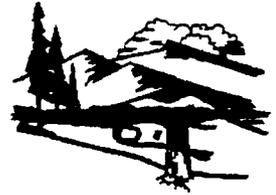
Page 1 of 3

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

June 11, 2008

Brad Peterson  
West Coast Capital Development  
San Jose, CA 95158

RE: Americinn Site Development Water and Sewer Project  
Application No. **08-286**

Dear Mr. Peterson:

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 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 water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permits, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

The approval granted under this Notification Of Coverage and the General Permit shall expire on October 1, 2009. Please reference Application Number **08-286** in any future correspondence.

If you have any questions, please contact me at (307) 777-6371.

Sincerely,

Brian Mark  
Staff Engineer  
Water Quality Division

BDM/rm/8-0402

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

cc: Tammy Reed, TriHydro Corporation, 1252 Commerce Drive, Laramie, WY 82070  
Duane Stolns, City of Rawlins, PO Box 953, Rawlins, WY 82301

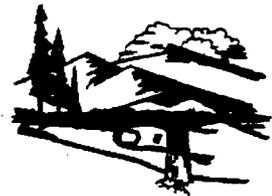
Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

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

May 13, 2008

Robert H. Farwell, Deputy Base Civil Engineer  
300 Vesle Drive  
F E Warren AFB, 82005-2793

RE: F E Warren Building 151 and Waster System Upgrades Project  
Application No. **08-287**

Dear Mr. Farwell:

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 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 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 permits.

The approval granted under this Notification Of Coverage and the General Permit shall expire on October 1, 2009. Please reference Application Number **08-287** in any future correspondence.

If you have any questions, please contact me at (307) 777-6371.

Sincerely,

Brian D. Mark  
Staff Engineer  
Water Quality Division

BDM/rm/8-0363

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

cc: Rodney G. Trees, 90CES/CEC, 300 Vesle Drive, F E Warren AFB, 82005

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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



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

July 17, 2008

Rick Juday  
Wyoming Housing Network  
300 South Walcott, Suite 200  
Casper, WY 82601

RE: Mountain View - Lots 1-27 Block 4, WHN Addition - Water and Sewer Main Extensions - Permit Number 08-288R, SW ¼, SW ¼. Section 13, T13N, R115W, Sweetwater County

Dear Mr. Juday:

The above application for coverage under General Permits to Construct the extension of a public water supply distribution system and the extension of a sewage collection system consisting of about 459 feet of 8-inch PVC water main and about 526 feet of 8-inch PVC sewer main to serve a 26 residential lots in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

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

Sincerely,

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

xc: IPS, Cheyenne  
Ryan S. Rigg, P.E., AVI, P.C., 2035 Westland Road, Cheyenne, WY 82001

encl: General Permit for a Public Water Supply Distribution System,  
General Permit for a Sewage Collection System

Page 1 of 1

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

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

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

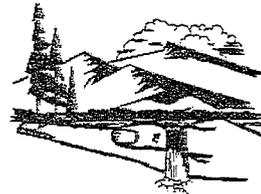
SOLID & HAZARDOUS WASTE  
(307) 332-6924  
FAX 332-7726

WATER QUALITY  
(307) 332-3144  
FAX 332-3183





# Department of Environmental Quality



Dave Freudenthal, Governor

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

John Corra, Director

January 9, 2009

J.B. Harkins  
3641 Wilson Way  
Rock Springs, WY 82901

RE: Ironman Holdings, LLC Industrial Development, WDEQ #08-289

Dear Mr. Alnoldi:

The permit application materials for the Ironman Holdings, LLC Industrial Development are being returned to you. According to Chapter 3 of the Water Quality Rules and Regulations Section 9(a)(B), if an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned.

Our Records indicate that a written review was done on the following project. A copy of this review was sent to you, requesting additional information. The requested, information, necessary to process this application has not yet been received by the Department of Environmental Quality. The specific information for your proposed project is as follows:

Facility Name: Ironman Holdings, LLC Industrial Development  
DEQ/WQD Reference Number: #08-289  
DEQ/WQD Reviewing Engineer: Perry Roberson, Consulting Engineer  
Date of DEQ/WQD Review: July 03, 2008

The construction, installation, or modification of any sewerage system, treatment works, disposal system including septic systems, or other facility capable of causing or contributing to pollution, or public water supply system including water mains, water wells, water services greater than 2-inch in diameter or other facilities without a Permit to Construct, is a violation of Wyoming State Statute 35-11-301.

If you have any questions regarding my review comments or this letter, please contact me at 307-335-6978.

Page 1 of 2

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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 332-3183



Sincerely,

A handwritten signature in cursive script that reads "Perry Roberson".

Perry Roberson, Consulting Engineer  
WQD/Southwest District  
pdr

Enclosure: Permit Application Package 08-289

xc:

Shawn M. Arnoldi, P.E., Choice Engineering Services, Inc. 450 South Main, Rock Springs,  
WY 82901

IPS

file (3)



# 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

May 28, 2008

Brian and Gloria Ridnour  
Turfmaster Sod Farm  
152 Preuit Road  
Wheatland WY 82201

RE: Turfmaster Sod Farm Septic Tank and Leachfield  
Application No. **08-290**, Platte County

Dear Mr. and Mrs. Ridnour:

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 described as a septic tank and leach field located in the SE ¼ NE ¼ Section 10 T24N R68W Platte 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 small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Please complete and return the enclosed Certificate of Completion. All construction, installation, or modification allowed by this notification of coverage shall be completed by July 13, 2010. Please reference Application No. **08-290** 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/8-0410

Enclosure: Certificate of Completion

cc: IPS, Cheyenne

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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WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 08-291

REFERENCE PERMIT NO. 06-823

BAGGS WATER SYSTEM PROJECT, PHASES I, II, & III  
PWS WY5601604

This permit hereby authorizes the applicant:

TOWN OF BAGGS

to construct, install or modify a transmission line, water line replacements, high service pump upgrade, and water fill station according to the procedures and conditions of the application number 08-291. The facility is located in 1/4 Section 5 T12N R91W; Carbon County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed January 11, 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.

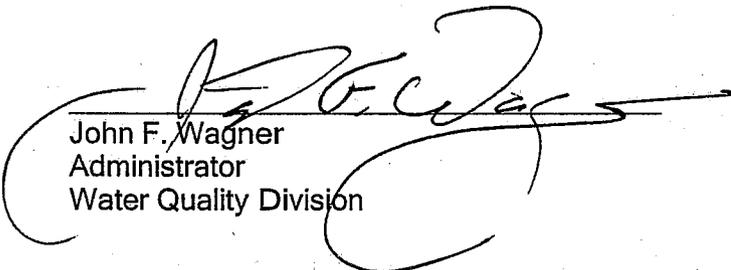
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and

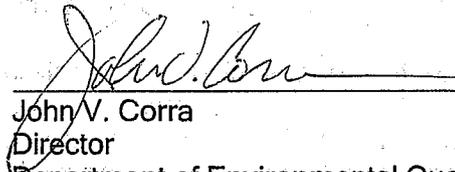
permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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 The reduced pressure zone backflow device in the water fill station must be installed so that it cannot be bypassed. The floor drainage in the water fill station must be designed to accommodate the maximum relief flow from the backflow device.
- 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
  - a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

Date of Issuance 5/22/08

LBH/rm/8-0393

## STATEMENT OF BASIS

1. Permit Number:       **08-291**
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. This permit replaces permit 06-823. The plan pages that were part of 06-823 have been updated and included as part of this permit.
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was 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 Louis Harmon, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on May 21, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 08-292

Rehabilitation of Canyon Government Area Lift Station

This permit hereby authorizes the applicant:

Nancy A. Ward, Assistant Chief of Maintenance  
Yellowstone National Park  
P.O. Box 168  
Mammoth, WY 82190

to replace two existing dry well pumps with two submersible pumps, modify existing dry well to wet well and provide standby power in separate building; according to the procedures and conditions of the application number 08-292. The facility is located at North 44 deg 44' 12.18" and West 110 deg 39' 47.81" in the county of Park, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by June 30, 2010.

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

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

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

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

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

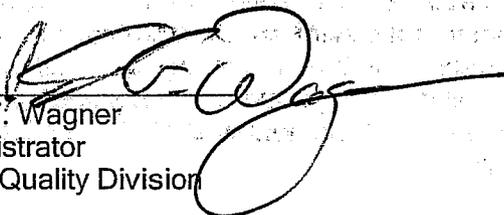
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

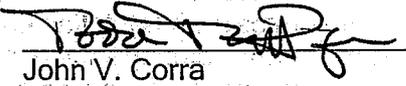
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

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

- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Northwest District Engineer, 510 Meadowview 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

6-10-08  
Date of Issuance

JSB/rm/8-0460

## STATEMENT OF BASIS

1. Permit Number: 08-292
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?  
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.  
Existing sewage collection systems 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.

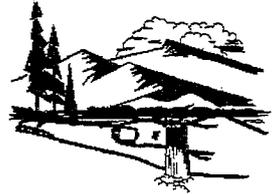
## CERTIFICATION

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](mailto:jbroug@state.wy.us), Northwest District Engineer and completed on June 10, 2008. 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: Sherri Jones, P.E., RTW Engineering, 1576 Sherman St #100, Denver, CO 80203



# Department of Environmental Quality



Dave Freudenthal, Governor

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

John Corra, Director

## NOTIFICATION OF COVERAGE

June 20, 2008

Clifford Allan Moore  
IDEA, Inc  
213 W. Main Street  
Riverton, WY 82501

RE: Smart Start Quality Child Care Water and Sewer Lines, Permit Number: 08-293R,  
NE ¼, Section 28, T1N, R4E, Fremont County

Dear Mr. Moore:

This project involves the installation of 85 linear feet of 8-inch PVC sewer main and 101 linear feet of 10-inch PVC water main, one fire hydrant and two 1-inch services for domestic use. The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the 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.

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

Sincerely,

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

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

encl: General Permits an Public Water Supply and Existing Sewage Collection Systems

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

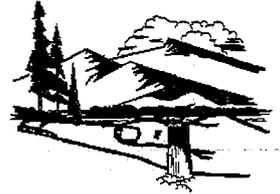
SOLID & HAZARDOUS WASTE  
(307) 332-6924  
FAX 332-7726

WATER QUALITY  
(307) 332-3144  
FAX 332-3183





# Department of Environmental Quality



Dave Freudenthal, Governor

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John Corra, Director

## NOTIFICATION OF COVERAGE

June 20, 2008

Kenneth J. Webber, President  
Riverton Sertoma Foundation  
622 North 8<sup>th</sup> West  
Riverton, WY 82501

RE: Sertoma West Fourth Addition Water and Sewer Lines, Permit Number: 08-294R,  
SW ¼ SE ¼, Section 28, T1N, R4E, Fremont County

Dear Mr. Webber:

This project involves the installation of 916 linear feet of 8-inch PVC sewer main, 3 manholes and 1060 linear feet of 8-inch PVC water main, three fire hydrant, and appurtenances. The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the 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.

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

Sincerely,

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

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

encl: General Permits an Public Water Supply and Existing Sewage Collection Systems

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

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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 332-3183





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

May 29, 2008

Glen Wyatt  
P.O. Box 68  
Sundance, WY 82729

RE: Wyatt Ranch Cabin Residential Septic System, Crook County  
Permit # 08-295

Dear Mr. Wyatt:

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. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

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

Sincerely,

Kim J. Medina  
Geological Project Analyst  
WDEQ/WQD

Enclosures: General Permit  
Certificate of Completion

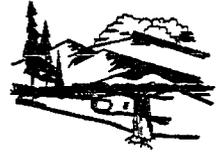
cc: Tim Lyons, Crook County Growth and Development  
IPS, Cheyenne  
WDEQ File

Page 1 of 1





The State  
of Wyoming



## Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

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

June 19, 2008

Tim Reich  
1007 Kingsbury  
Belle Fourche, SD 57717

RE: Return of Application for the Reich Residential Septic System, WDEQ #08-296  
Crook County

Dear Mr. Reich:

Our office received an application for a Permit to Construct on May 7, 2008, for a small residential wastewater system for the property located in Weston County. We performed a review of the application and sent this review to the above address on May 14, 2008. The review stated that if our department did not receive the information requested within **one** month, we would return the incomplete application to you. As of today, June 19, 2008, we have not received the requested information. Therefore, in accordance with Wyoming Department of Environmental Quality/Water Quality Rules and Regulations Chapter 3, Section 14 – Denial of a Permit or Coverage under a General Permit, we are returning all of the application materials to you, as we are unable to process your application without the required information.

You can resubmit the application at any time. It will be assigned a new DEQ tracking number and will be reviewed in accordance with Chapter 3 of the Wyoming Department of Environmental Quality/Water Quality Rules and Regulations.

If you have any questions, please contact me at (307) 473-3473 or [spagor@wyo.gov](mailto:spagor@wyo.gov)

Sincerely,

Suzanne Pagorek  
WDEQ/WQD

Enclosures: application materials

cc: Tyler Horn, HCR 69 Box 52, Belle Fourche, SD 57717 (w/o encl)  
Tim Lyons, Crook County (w/o encl)  
WDEQ File (w/o encl)  
IPS (w/o encl)



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 08-299

CHEYENNE BOPU DEVELOPMENT WATER Th#2-Th#3-Th#4 on Belvoir Ranch

This permit hereby authorizes the applicant:

CHEYENNE BOARD OF PUBLIC UTILITIES

to conduct a land application of activated carbon filtered test well development water according to the procedures and conditions of the application number 08-299. The facility is located in SE/NW1/4 Section 20 T13N R68W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed July 13, 2010.

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.

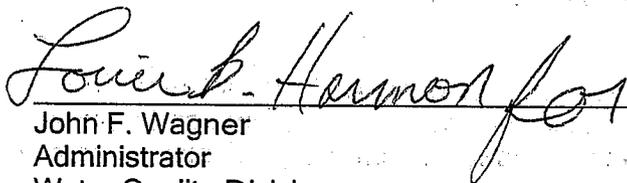
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

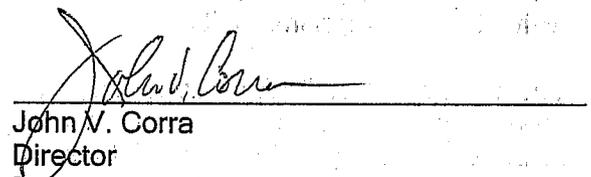
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization 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

5-29-08

LBH/rm/8-0403

## STATEMENT OF BASIS

1. Permit Number: **08-299**
2. This application was reviewed for compliance with the applicable regulations ;

Chapters 3, 11

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

Yes

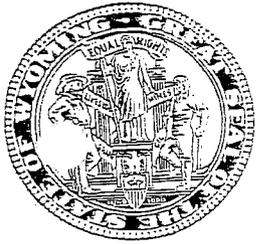
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.

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

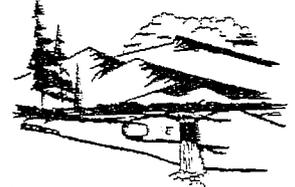
5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Louis Harmon, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on May 27, 2008. 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



Dave Freudenthal, Governor

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

John Corra, Director

July 10, 2008

Kent Connelly, Chairman  
Lincoln County Board of Commissioners  
925 Sage Avenue, Suite 302  
Kemmerer, WY 83101

Subject: Adverse Recommendation - Mountain Estates Subdivision  
WDEQ / WQD Application No. 08-300

Dear Chairman:

This subdivision application was received in this office on May 12, 2008. Additional information was requested from the developer and the developer's consultants on June 11, 2008. 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 July 10, 2008. 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 Mountain Estates Subdivision, Lincoln County, Department of Environmental Quality / Water Quality Division Application No. 08-300. 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:

Mark Baron, P.E.  
Southwest District Supervisor  
Water and Wastewater Program, Wyoming Water Quality Division

MB/mb



cc:

John Woodward, Lincoln County - Office of Planning and Development  
P.O. Box 414, Afton, WY 83110

Ryan Erickson, P.E., Sunset Engineering, Inc., P.O. Box 609, Afton, WY, 83110

Derk Izatt, North Ridge Homes and Properties, Inc., 15 Cedar Creek Rd., Freedom, WY  
83120

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

*IPS*