PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-401
SPECIAL CONDITIONS

Worland Well & SCADA Improvements

This permit hereby authorizes the applicant:

City of Worland
P. O. Box 226
Worland WY 82401

to install remotely operated valves to control flowing wells and modify the SCADA system according to the procedures and conditions of application number 99-401. The facility is located in Sections 1 and 12, T49N, R91W; Sections 2, 3 and 22, T47N, R92W and Sections 13 and 24, T47N, R93W in the county of Washakie, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents 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 notify Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-11-99
Date of Issuance

JCH/jm/mad 92552.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-401

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. No

B. Chapter XII. Yes

III. Basis for issuing permit.

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

Yes

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.
NA

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

N/A

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Jeff Hermansky, Northwest District Engineering Supervisor, and completed on October 4, 1999. 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."

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-402
SPECIAL CONDITIONS

Hilbert Septic Tank/Leach Field

This permit hereby authorizes the applicant:

Joe Hilbert
941 Rohlers Church Road
Dover, PA 17315

to construct a septic tank/leach field to serve a 3 bedroom residence according to the procedures and conditions of application number 99-402. The facility is located in NW1/4 Sec. 23, T8N, R4E Wind River Meridian in the county of Hot Springs, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify Jeff Hermansky, Northwest Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, Northwest District Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, Northwest District Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

9-27-99
Date of Issuance

JCH/mad 92477.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-402

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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.

Yes

IV. Facilities not specifically covered by regulations.

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

Chapter XI, Part D, Sections 38 and 41, includes sizing for trench, bed, and seepage pit systems. Infiltrators are new technology not included in the regulations.

B. Briefly state the basis for the deviation.

Research data provides sizing criteria found to be acceptable.

C. Permit based on general or statewide deviation contained in approved policy statement

13.41.2 This policy is the acceptable criteria for sizing leachfields using standard chamber units.

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

N/A

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Jeff Hermansky, Northwest District Supervisor, and completed on September 24, 1999. 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."

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-403R
SPECIAL CONDITIONS

Aspen Meadows Subdivision Filing No. 2

This permit hereby authorizes the applicant:

David C. Martin
P.O. Box 825
Dubois, WY 82513

to construct a new water system consisting of an existing well, a 16,000 gallon storage tank, and approximately 5,682 feet of 4"diameter water main according to the procedures and conditions of application number 99-403R. The facility is located in NE1/4 Section 22 and NW1/4 Section 23, T42N, R108W in the county of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 6 The applicant will notify the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 6 The applicant will provide immediate oral and/or written notice to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 6 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 6 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 6 Prior to placing this system into operation, the applicant shall have certified chief and backup operators in place to operate the system.

If ownership of this public water system is transferred to another party (e.g., an individual, a water control committee, a homeowners' association or a water district), this Permit to Construct shall also be transferred to the party assuming ownership of the water system. At such time, the party assuming ownership will be required to submit a capacity development assessment to the Department of Environmental Quality, Water Quality Division. In addition to assessing the technical, financial and managerial capabilities of their operations, they must also show expenses, revenues, debt service, any capital improvements, etc. associated with the operation of the system.

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

3-20-00
Date of Issuance

DHC/mad 00635.ltr

cc: County of Fremont; Planning and Rural Addressing; 450 No. 2nd St.; Lander, WY 82520
Louise Cordova, Operator Certification Officer

STATEMENT OF BASIS

I. General information.

Permit Number: 99-403R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. No

B. Chapter XII. Yes

III. Basis for issuing permit.

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

Yes

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.

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

Not Applicable

---

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

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Doyle Conklin, SW District Engineering Supervisor, and completed on March 9, 2000. 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."

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-404
SPECIAL CONDITIONS

ANDY AND GLENDA VAN PATTEN SMALL WASTEWATER SYSTEM

This permit hereby authorizes the applicant:

Andy and Glenda Van Patten
P. O. Box 61
Powder River, WY 82648

to construct, install or modify a small wastewater system/nondischarging lagoon according to the procedures and conditions of the application numbers 99-404. The facility is located in the SE/4 NW/4 of Section 30 T36N R86W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

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

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

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

The permittee shall allow authorized representatives from the DEQ, Water Quality Division (DEQ/WQD), 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.

The permittee shall notify representatives from the DEQ/WQD the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: DEQ/WQD, Casper WDEQ Field Office, 3030 Energy Lane, Suite 200, Casper, WY 82604, telephone (307) 473-3452; FAX (307) 473-3458.

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 5 The applicant will notify the Casper Field Office by the attached post card of the date construction will begin and the estimated completion date.

2 of 5 The applicant will provide immediate oral and/or written notice to the Northeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Casper Field Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 5 The owner/operator must maintain a minimum water level of two (2) of water in the pond at all times.

4 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Administrator
Water Quality Division

10-11-99
Date of Issuance

Director
Department of Environmental Quality

JDL/pr: 9/22/99

Enclosures: Notification Post Card
Certificate of Completion
Statement of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 99-404

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

A. Chapter XI. Yes

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.

Yes

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.

Not Applicable (N/A)

B. Briefly state the basis for the deviation.

N/A

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).

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1]. (Indicate either applicable or not applicable. If not applicable delete all of Section VI. from the Statement of Basis.)

N/A

VI. N/A

VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Dennis Lamb, Northeast District DEQ/WQD-SPO Senior Analyst, and completed on September 22, 1999. 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."

---

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

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-405
SPECIAL CONDITIONS

CROSSTOWN PIPELINE L-1

This permit hereby authorizes the applicant:

City of Casper & Central Wyoming Regional Water System
200 North David Street
Casper WY, 82601

to construct, install or modify a water distribution system according to the procedures and conditions of the application numbers 99-405. The facility is located in Sections 7, 8, 9, 10, 11, 13, 14 &18 T33N R79W in the county of Natrona, 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, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: DEQ/WQD, Casper WDEQ Field Office, 3030 Energy Lane, Casper, WY 82604, telephone (307) 473-3452; FAX (307) 473-3458.

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 4 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the Northeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate. All modifications or deviations from the authorized plans must be highlighted.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

9-27-99
Date of Issuance

Dennis Hemmer
Director
Department of Environmental Quality

JDL\pr:mad 92436.ltr
Enclosures: Construction Notice Post Card, Certificate of Completion and Statement of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 99-405

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

A. Chapter 11 No

B. Chapter 12 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.

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.)

N/A

B. Briefly state the basis for the deviation.

N/A

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).

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1]. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

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:

N/A

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

N/A

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

N/A

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:

N/A

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:

N/A

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.

N/A

---

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

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.

N/A

VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Dennis Lamb, NE Water & Wastewater Section Senior Analyst, and completed on September 20, 1999. 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."

ROAD APPLICATION PERMIT

X New
Renewal
Modified

PERMIT NO. 99-406
SPECIAL CONDITIONS

Centennial Oilfield

This permit hereby authorizes the applicant:

Centennial Energy
P.O. Box 469
Thermopolis, WY 82443

to road apply waste crude oil sludge from tank bottoms according to the procedures and conditions of application number 99-406. The application site is located in E½ Section 16, T43N, R94W in the county of Hot Springs, in the State of Wyoming. This permit shall be effective until November 2000.

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 (WQD), 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 pro commencement and completion dates with the attached post card. At least 48 hours advance notice is required. The authorized representative in your area can be contacted at the following address: Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307) 332-3183.

2 of 8 The permittee will provide immediate oral and/or written notice to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; 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 Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the attached Certification of Completion form, the following information:

A. Date that the road application was completed; and

B. Certification the road application was done in accordance with the terms and conditions of the permit; or

C. Certification the road application was completed with changes or modifications. Submit information necessary to clearly indicate the road application as actually performed. This information shall include a contour map depicting only those sections of road that actually received the waste crude oil sludge.

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 waste crude oil sludge shall be applied uniformly and incorporated into the roadbed. Application shall not be initiated during the spring runoff period or at times saturated soil conditions exist. The waste crude oil sludge shall not be applied during the period from November 1 to April 10.

6 of 8 The application site slope shall not exceed eight percent (8%) for vehicular application.

7 of 8 The waste crude oil sludge application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

Only the roads designated in this permit are authorized for application of the waste crude oil sludge. 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:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

9-29-99
Date of Issuance

JH/mad 92502.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-406

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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.

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

There are not 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.

District Policy numbers 10.1 (4/9/91), 10.2 (10/17/86), 10.3 (8/91), 10.4 (10/24/91), and 10.6 (1/18/91) address the statutory authority to regulate the road application of waste, establish criteria

for characterizing the waste, and determine acceptable conditions for the application of the waste to roadbeds to minimize impact to waters of the State.

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter [1].

Applicable

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 waste crude oil sludge onto the roadbed. Repeated applications of the waste crude oil sludge on the same sections of road will be monitored by roadbed analyses that is required for future applications.

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

N/A

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

N/A

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:

N/A

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:

N/A

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.

N/A

---

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

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.

N/A

VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Jeff Hermansky, Northwest District Engineering Supervisor, and completed on 9/24/99. 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."

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-407
SPECIAL CONDITIONS

Tom Anderson Septic Tank/Leachfield System

This permit hereby authorizes the applicant:

Tom Anderson
P.O. Box 887
Basin, WY 82410

to construct a septic tank and leachfield system according to the procedures and conditions of application number 99-407. The facility is located in NE1/4 SE1/4 Section 9, T51N, R94W in the county of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

9-27-99
Date of Issuance

DHC/mad 92474.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-407

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

Not Applicable

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

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Doyle H. Conklin, Environmental Senior Analyst, and completed on September 23, 1999. 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."

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-408R
SPECIAL CONDITIONS

Anders Septic Tank/Leach Field

This permit hereby authorizes the applicant:

Daniel J. Anders
P. O. Box 565
Greybull, WY 82426

to construct a septic tank/leach field to serve a 3 bedroom residence according to the procedures and conditions of application number 99-408R. The facility is located in Sections 19 and 20, T52N, R93W in the county of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-11-99
Date of Issuance

JCH/jm/mad 92574.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-408R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.
N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

N/A

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Jeff Hermansky, Northwest District Engineering Supervisor, and completed on October 5, 1999. 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."

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-409R
SPECIAL CONDITIONS

AmericInn Lodge & Suites

This permit hereby authorizes the applicant:

The Columbine Group, LLC
P.O. Box 1148
Cody, WY 82414

to construct water and sewer mains with fire hydrant and manhole according to the procedures and conditions of the application number 99-409R. The facility is located in NW¼ Section 1, T52N, R102W in the county of Park, in the State of Wyoming. This permit shall be effective for a period of 2 years for the sewer and until September 30, 1999 for the water unless the City of Cody demonstrates capacity development for the water system, then the permit is effective for a period of 2 years for the water, from the date of issuance of this permit.

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

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

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

The permittee shall allow authorized representatives from the DEQ, Water Quality Division, 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.

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-7726.

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 4. The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.

2. of 4. The applicant will provide immediate oral and/or written notice to Jeff Hermansky, Northwest District, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3. of 4. Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, Northwest District, on the form provided (CERTIFICATION OF COMPLETION), the following information:

   a. Date that construction of the facility was completed; and

   b. Date that the facility was placed in operation; and

   c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

   d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4. of 4. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

9-27-99
Date of Issuance

JH/mad 92461.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 99-409R

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

A. Chapter XI. Yes

B. Chapter XII. 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 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.)

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1] (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

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.

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 Jeff Hermansky, Northwest District Engineering Supervisor, and completed on 9/22/99. Permit issuance is recommended based upon statements, representations, and procedures presented in the perm application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

51932.DOC

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

PERMIT TO CONSTRUCT

X New
___ Renewal
Modified

PERMIT NO. 99-410R
SPECIAL CONDITIONS

Larry Warner Cabin - Septic Tank/Leachfield

This permit hereby authorizes the applicant:

Larry Warner
1443 US Hwy 20 South
Worland, WY 82401

to construct a septic tank and leachfield system for a 1-bedroom cabin according to the procedures and conditions of application number 99-410R. The facility is located in SE1/4 Section 2, E1/2 Section 27 and NE1/4 Section 34, T49N, R87W in the county of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

Granting this permit does not imply that the Wyoming DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational quirements. 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 (WQD), to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance, or non-compliance with any rules, regulations, standards, permits or orders.

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10/18/99
Date of Issuance

DHC/dc
b/92648.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-410R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

Not Applicable

VI. Documentation of Statement of Basis.

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

---

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

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 Doyle H. Conklin, Southwest District Engineering Supervisor, and completed on October 14, 1999. 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."

DHC/bb/92648.ltr

PERMIT TO CONSTRUCT

X New
— Renewal
Modified

PERMIT NO.99-411
SPECIAL CONDITIONS

Laramie WTP Alum Sludge Drying Basin

This permit hereby authorizes the applicant:

City of Laramie
P.O. Box C
Laramie WY 82073

to construct, install or modify a 4½ acre drying bed to complete alum sludge dewatering according to the procedures and conditions of the application number 99-411. The facility is located in SW 1/4 Section 23 T14N R76W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period ofthree years from the date of issuance of this permit.

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 operator.

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

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

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

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

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

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

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

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

1 of 4 The applicant will notify the DEQ/WQD Southeast District Office by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate. All modifications or deviations from the authorized plans must be highlighted.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

1-6-2000
Date of Issuance

LBH/bb/00018.ltr

STATEMENT OF BASIS

I. Permit Number: 99-411

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. NO

B. Chapter XII. YES

III. Basis for issuing permit: Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

IV. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

V. As Section 15 of Chapter III is applicable, the basis for determining that the groundwater will be protected is:

The quality of wastewater is such that it will not cause a violation of groundwater standards. The alum sludge has been collected for thirty years in unlined ponds immediately adjacent to the proposed drying beds. No significant impact to the ground water quality has been observed. The water liberated from the alum sludge in the drying bed by the freeze thaw process will have the same chemical qualities as the pond water. No impact to ground water quality will occur. Testing of the influent (river) water, the water in the sludge ponds, and the water from a nearby domestic well accompanies the archive file. The pond water has a much lower TDS, with all anions and cations being lower in concentration except for the Al ion. This is to be expected as the treatment plant uses alum flocculation and the pond is filled with alum sludge. The Al concentration of 3.84 mg/l is below the Wyoming DEQ/WQD standard of 5.0 mg/l for livestock use, but above the EPA Secondary Standard of 0.2 mg/l. However, at soil pH's of 6.2 and above the Al ion will find an OH ion and precipitate or remain immobile in the soil.(Soil Fertility and Fertilizers, Tisdale and Nelson, MacMillan, 1975.)

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Louis B. Harmon, Southeast District Engineering Supervisor, and completed on January 4, 2000. 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."

BH/bb/00018.ltr

PERMIT TO CONSTRUCT

X New
___ Renewal
Modified

PERMIT NO.99-412
SPECIAL CONDITIONS

City of Cheyenne Wells Finnerty No. 2, State No. 2, Bell No. 5

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82003-1469

to construct, install or modify a phase 1 drilling and development of three wells according to the procedures and conditions of the application number 99-412. The facility is located in SW 1/4 Sec 14 T13N R68W, NW 1/4 Sec 16 T15N R69W, SE 1/4 Sec 13 T14N R68W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

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

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

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

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

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/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 5 The applicant will notify the DEQ/WQD Southeast District Office by the attached post card of the date construction will begin and the estimated completion date.

2 of 5 The applicant will provide immediate oral and/or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 5 This permit is valid only for the drilling, casing, completion, and development of the three wells and the proper abandonment of any wells replaced. The installation of permanent pumps, piping, well houses, and connection to the existing ground water collection system is not covered by this permit.

4 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate. All modifications or deviations from the authorized plans must be highlighted.

5 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-11-99
Date of Issuance

LBH/mad 92537.ltr

STATEMENT OF BASIS

Permit Number: 99-412

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. NO

B. Chapter XII. YES

III. Basis for issuing permit.

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

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

Chapter 9 (b) (iii) (B) (IX) requires that wells that penetrate more than one water bearing strata, be sealed off to prevent water from migrating from one strata to another.

Chapter 9 (b) (iii) (C) (III) requires that the screen be installed so that pumping water level remains above the screen under all operating conditions.

B. Briefly state the basis for the deviation.

The strata in the area of these wells are discontinuous and decades of experience has proven that yield can be maximized by developing multiple strata into one well and allowing the pumping water level to fall below the upper screened sections. No adverse effects on the quality or production of the ground water aquifers has been documented from these practices. The ground water is chemically stable and does not cause problems with encrustation on the sections of screen uncovered by high pumping rates.

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

NO

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Louis B. Harmon, Southeast District Engineering Supervisor, and completed on October 5, 1999. 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."

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-413R
SPECIAL CONDITIONS

Jackson Sanitary Sewer Rehabilitation Phase IV-1999

This permit hereby authorizes the applicant:

Town of Jackson
P.O. Box 1687
Jackson, WY 83001

to construct about 2000 LF 8-inch sewer and reline about 925 LF 8 inch sewer according to the procedures and conditions of application number 99-413R. The facility is located in Sections 27 and 34, T41N, R116W in the county of Teton, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, Northwest District Supervising Engineer, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of 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.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-9-99
Date of Issuance

JH/bap
b/92851.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-413R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes - in part

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

Yes - in part

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

No

IV. Facilities not specifically covered by regulations.

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

There are no regulations governing trenchless technology in Chapter XI.

B. Briefly state the basis for the deviation.

Section 5, Chapter XI allows for new technology. Acceptance was based upon Section 5 (a) (i) since comparable installation has demonstrated acceptability.

C. Permit based on general or statewide deviation contained in approved policy statement

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

N/A

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Jeff Hermansky, Northwest District Engineering Supervisor, and completed on November 3, 1999. 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."

JCH/bb/92851.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-414R
SPECIAL CONDITIONS

Buffalo Bill Historical Center

This permit hereby authorizes the applicant:

Buffalo Bill Historical Center
720 Sheridan Ave.
Cody, WY 82414

to construct a 6-inch diameter water main extension according to the procedures and conditions of application number 99-414R. The facility is located in Section 31, T53N, R101W in the county of Park, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-3-99
Date of Issuance

DHC/dc
b/92731.ltr
cc: City of Cody; Public Works Director; P.O. Drawer 2200; Cody, WY 82414
Fischer & Associates; Attn: David Groshens; 2815 Montana Ave.; Billings, MT 59101

STATEMENT OF BASIS

I. General information.

Permit Number: 99-414R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. No

B. Chapter XII. Yes

III. Basis for issuing permit.

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

Yes

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.

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

Not Applicable

VI. Documentation of Statement of Basis.

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

---

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

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 Doyle H. Conklin, Southwest District Engineering Supervisor, and completed on October 25, 1999. 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."

DHC/bb/92731.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-415
SPECIAL CONDITIONS

Dalton Farm - Septic Tank/Leachfield

This permit hereby authorizes the applicants:

Shane Foote & Tracey Plum
168 West River Road
Worland, WY 82401

to construct a septic tank and leachfield system for a 1-bedroom home according to the procedures and conditions of application number 99-415. The facility is located in NE1/4 Section 6, T48N, R92W in the county of Washakie, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

9-29-99
Date of Issuance

DHC/mad 92515.ltr

cc: Washakie County, Planning Office, Courthouse, Worland, WY 82401

STATEMENT OF BASIS

I. General information.

Permit Number: 99-415

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

Not Applicable

---

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

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Doyle H. Conklin, Environmental Senior Analyst, and completed on September 28, 1999. 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."

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-416
SPECIAL CONDITIONS

Willow Park Townhomes Waterline Replacement

This permit hereby authorizes the applicant:

Willow Park Townhomes
P. O. Box 1001
Jackson, WY 83001

to construct a 4-inch AWWA C-900, DR-14 PVC water main according to the procedures and conditions of application number 99-416. The facility is located in SW1/4 Sec.33, T41N, R116W in the county of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-21-99
Date of Issuance

JCH/jm
b/92667.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-416

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. No

B. Chapter XII. Yes

III. Basis for issuing permit.

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

Yes

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.
N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

N/A

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Jeff Hermansky, Northwest District Engineering Supervisor, and completed on October 15, 1999. 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."

JCH/bb/92667.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-417RR
SPECIAL CONDITIONS

Cowboys with a Mission

This permit hereby authorizes the applicant:

Cowboys with a Mission
P.O. Box 490
Meeteetse, WY 82433

to construct a septic tank/leach field, grease trap, and collection system according to the procedures and conditions of application number 99-417RR. The facility is located in SE ¼ Section 13, T48N, R101W in the county of Park, in the State of Wyoming. This permit shall be effective for a period of 3 years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations in the exercise of 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 4 The applicant will notify the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of t 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.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

2-15-2000
Date of Issuance

JCH/lb
b/00391.ltr
cc: Renate Martin, Park County Planning, 1002 Sheridan Ave, Cody, WY 82414

STATEMENT OF BASIS

I. General information.

Permit Number: 99-417RR

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

N/A

VII. Documentation of Statement of Basis.

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

---

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

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 w performed by Jeff Hermansky, Northwest District Engineering Supervisor, and completed on February 14, 2000. 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."

JCH/bb/00391.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-418
SPECIAL CONDITIONS

Maxwell Subdivision

This permit hereby authorizes the applicant:

Tatiana Maxwell
P.O. Box 4856
Jackson, WY 83001

to construct a 2-inch water distribution line and a 6-inch sewer collection line according to the procedures and conditions of application number 99-418. The facility is located in SE¼ Section 34, T41N, R116W in the county of Teton, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of 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.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-3-99
Date of Issuance

JH/lb
b/92778.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-418

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. Yes

III. Basis for issuing permit.

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

Yes

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.

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

N/A

VII. Documentation of Statement of Basis.

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

---

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

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 Jeff Hermansky, Northwest District Engineering Supervisor, and completed on 10/29/99. 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."

JCH/bb/92778.ltr

PERMIT TO CONSTRUCT

X New
Renewal
— Modified

PERMIT NO. 99-419
SPECIAL CONDITIONS

Webster LaPlant Homestead, Phase III

This permit hereby authorizes the applicant:

Webster LaPlant Homestead, LLC
P.O. Box 2871
Jackson, WY 83001

to construct ductile iron pipe water mains and PVC sewer according to the procedures and conditions of application number 99-419. The facility is located in SE¼ Section 32, T41N, R116W in the county of Teton, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify the Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-3-99
Date of Issuance

JH/lb
b/92781.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-419

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. Yes

III. Basis for issuing permit.

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

Yes

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.

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

N/A

VII. Documentation of Statement of Basis.

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

---

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

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 Jeff Hermansky, Northwest District Engineering Supervisor, and completed on 10/29/99. 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."

JCH/bb/92781.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO.99-420
SPECIAL CONDITIONS

Lots 1-5, Block 8, Laramie River Business Park II, City of Laramie

This permit hereby authorizes the applicant:

Laramie Economic Development Corporation
1482 Commerce Drive
Laramie WY 82070

to construct, install or modify water distribution and fire hydrants to serve Lots 1-5, Block 8, Laramie River Business Park II provided by a new 8 inch diameter water line in Venture Drive and a 1,198 linear foot 8" diameter SDR 35 PVC pipe sewer main extension in Venture Drive according to the procedures and conditions of the application number 99-420. The facility is located in NE 1/4 Section 6 T15N R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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 operator.

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

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

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

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

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

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

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

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

1 of 6 The applicant will notify the DEQ/WQD Southeast District Office by the attached post card of the date construction will begin and the estimated completion date.

2 of 6 The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 6 A variance as allowed by Policy 13.9.13, Flat Grade Sewers is granted to allow the use of 8" diameter PVC sewer line in Venture Drive at the grades shown on Sheet 3 of 6.

4 of 6 Where the sewer line crosses under the water line in Adams Street it appears that there will be less than 18" of separation. Regardless, flow fill shall be used to provide support and encasement for both the sewer line and water line.

5 of 6 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate. All modifications or deviations from the authorized plans must be highlighted.

6 of 6 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-18-99
Date of Issuance

LBH/mad 92630.ltr
cc: City of Laramie

STATEMENT OF BASIS

I. Permit Number: 99-420

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. YES

B. Chapter XII. YES

III. Basis for issuing permit.

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

NO

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

YES

IV. Facilities not specifically covered by regulations

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

Chapter 11, Section 9 requires that 8 inch diameter sewer lines shall be constructed to a minimum grade of 0.4 ft fall per 100 ft of run. Chapter 11, Section 9, and Chapter 12, Section 14 requires placement in a separate conduit of one of the lines when a water line crosses over within 18" of a sewer line.

B. Permit based on general or statewide deviation contained in approved policy statement.

Policy 13.9.13 allows 8" diameter PVC sewer line to be installed at a grade of 0.2 ft per 100 ft when special installation methods are followed. Policy 13.9.11 allows the use of flow-fill encasement in lieu of a separate conduit for crossings of water and sewer lines without adequate separation.

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

NO

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Louis B. Harmon, Southeast District Engineering Supervisor, and completed on October 14, 1999. 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."

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-421R
SPECIAL CONDITIONS
REF/PERMIT #99-191R

Paul Stock Aquatics and Recreational Center

This permit hereby authorizes the applicant:

City of Cody
P.O. Drawer 2200
Cody, WY 82414

to construct water mains and sewage collection lines according to the procedures and conditions of application number 99-421R. The facility is located in SE1/4 Tract 79, T53N, R101W Resurvey in the county of Park, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

Granting this permit does not imply that the Wyoming DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational quirements. 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 (WQD), to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance, or non-compliance with any rules, regulations, standards, permits or orders.

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District Supervising Engineer, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations in the exercise of 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 4 The applicant will notify Jeff Hermansky, Northwest District Supervising Engineer, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, Northwest District Supervising Engineer, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, Northwest District Supervising Engineer, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-10-99
Date of Issuance

JH/bp
b/92877.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-421R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. Yes

III. Basis for issuing permit.

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

Yes

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.
N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

N/A

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review w performed by Jeff Hermansky, Northwest District Supervising Engineer, and completed on November 5, 1999. 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."

JCH/bb/92877.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-422
SPECIAL CONDITIONS
Reference Permit 96-309

EIP I SEWER MAIN EXTENSION

This permit hereby authorizes the applicant:

Eastside Industrial Park
P.O. Box 6498
Sheridan, WY 82801
Attention: Tom Pilch

to construct, install or modify a wastewater collection system according to the procedures and conditions of the application numbers 99-422. The facility is located in the NW/4 of Section 25 of T56N R84W in the county of Sheridan, in the State of Wyoming. This permit shall be effective for one (1) year from the date 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, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Northeast District, State of Wyoming, DEQ, Water Quality Division, 1043 Coffeen Avenue, Suite D, Sheridan, Wyoming 82801; telephone (307) 672-6457; FAX (307) 674-6050.

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 4 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the Northeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate. All modifications or deviations from the authorized plans must be highlighted.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-11-99
Date of Issuance

DRM/pr:mad 92556.ltr
Enclosures: Post Card, Certificate of Completion & Statement of Basis
xc: Steve Peterson, City of Sheridan

STATEMENT OF BASIS

I. General information.

A. Permit Number: 99-422

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

A. Chapter 11 Yes

B. Chapter 12 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.

Yes

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.

Not Applicable (N/A)

B. Briefly state the basis for the deviation.

N/A

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).

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1]. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statem of Basis.)

N/A

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:

N/A

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

N/A

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

N/A

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

N/A

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:

N/A

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.

N/A

---

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

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.

N/A

VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Don McKenzie, NE Water & Wastewater Section Program Principal, and completed on October 5, 1999. 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."

51933.DOC

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-423
SPECIAL CONDITIONS

Tri-Mountain Ranch Residential Septic System

This permit hereby authorizes the applicant:

Terri S. Bennett
P.O. Box 22
Alcova, WY 82620

to construct and install a residential septic system with a chamber type leach field according to the procedures and conditions of the application number 99-423. The facility is located in the NE1/4 SW1/4 of Section 22, T28N, R83W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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.

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

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

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

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

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/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 6. The applicant will notify the DEQ/WQD Southeast District Office by the attached post card of the date construction will begin and the estimated completion date.

2 of 6. The applicant will provide immediate oral and/or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 6. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District Office on the form provided (CERTIFICATION OF COMPLETION) the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. **Submittal of <u>as-constructed plans and specifications</u>** for the system as it was constructed, certified by an engineer if appropriate. All **modifications or deviations** from the authorized plans **must be highlighted.**

4 of 6. <u>Minimum Leach Field Size Requirement</u> - The leach field shall consist of a **minimum of 24 sections of "Infiltrator" chambers.** At a percolation rate of 19 minutes per inch, the 9 sections proposed would only be enough for a 1 bedroom house. Therefore, for your 3 bedroom house a minimum of 24 sections is required. The leach chambers shall be installed in two rows of 12 sections each, and there shall be a minimum of 4 feet of undisturbed soil between the trenches. Additionally, the outflow from the septic tank shall be equally split to each of the trenches by use of a tee fitting centered on a header pipe at the upstream end of the leach field. A copy of the purchase invoice for the additional 15 "Infiltrator" sections shall be submitted along with the CERTIFICATION OF COMPLETION form required in condition above.

5 of 6. Septic Tank Riser Requirement - On Phillip Sitton septic tanks either a 6 inch diameter clean-out riser or the manway shall be extended to the ground surface from each compartment of the tank.

6 of 6. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-29-99
Date of Issuance

RLE/bb/92709.ltr
cc: Carbon County Planner/Sanitarian

STATEMENT OF BASIS

I. General information.

A. Permit Number: 99-423

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

A. Chapter XI. Yes

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.

Yes

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.

NOT Applicable

B. Briefly state the basis for the deviation.

NOT Applicable

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).

NOT Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1]. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

NOT Applicable

VI. Deleted

VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Ronald L. Ewald, Senior Analyst, and completed on October 22, 1999. 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."

RLE/bb/92709.ltr

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

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-424RR
SPECIAL CONDITIONS

Kelly Septic Tank/Leach Field

This permit hereby authorizes the applicant:

Patrick Kelly
7516 Deveron Court
San Jose, CA 95135

to construct a septic tank with effluent pump and mound type leach field according to the procedures and conditions of application number 99-424RR. The facility is located in NE1/4Ne1/4 Sec.8, T43N, R94W in the county of Hot Springs, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-3-99
Date of Issuance

JH/bp
b/92779.ltr
cc: Shelly Deromedi, Hot Springs Assessor

STATEMENT OF BASIS

I. General information.

Permit Number: 99-424RR

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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. N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

N/A

VI. Documentation of Statement of Basis.

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

---

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

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 Jeff Hermansky, Northwest District Engineer, and completed on October 28, 1999. 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."

JCH/bb/92779.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-425R
SPECIAL CONDITIONS

Smith Septic Tank/Leach Field

This permit hereby authorizes the applicant:

Craig Smith
P. O. Box 1077
Worland, WY 82401

to construct a septic tank/leach bed to serve a three bedroom residence according to the procedures and conditions of application number 99-425R. The facility is located in SW1/4 SE1/4, Sec.23, T47N, R93W in the county of Washakie, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-3-99
Date of Issuance

JCH/jm
b/92732.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-425R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.
N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.
N/A

VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Jeff Hermansky, Northwest District Engineering Supervisor, and completed on October 26, 1999. 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."

JCH/bb/92732.ltr

PERMIT TO CONSTRUCT

x New
Renewal
Modified

PERMIT NO. 99-426
SPECIAL CONDITIONS

COASTAL CHEM, INC. ONE TIME DISPOSAL OF OFF SITE WASTE

This permit hereby authorizes the applicant:

Coastal Chem, Inc.
P.O. Box 1287
Cheyenne, WY 82003

to construct, install or modify a rail car unloading facility according to the procedures and conditions of the application number 99-426. The facility is located in T13N, R67W, Section 16, NW¼SW¼ in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of six months from the date of issuance of this permit.

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

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

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

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

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

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations in the exercise of 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. This permit authorizes Coastal Chem, Inc. to dispose of up to one million gallons of liquid, non-hazardous waste from its Battle Mountain Facility in Nevada. This waste is generated in a plant very similar to the ammonium nitrate plant in Cheyenne. Disposal of this waste into the existing Class I injection wells at the Coastal Chem plant shall be done in accordance with permit UIC 95-294.

2. Disposal of this waste must not cause any overfilling of the ponds or violation of the volume or pressure limitations of permit UIC 95-294. In short, this waste may be disposed of only on days when the ponds themselves are low enough to provide for the stormwater disposal capacity needed.

3. This disposal must not result in any non-compliance with the existing permit conditions concerning maximum concentrations of Ammonia as N, Nitrate as N, Urea, Total Dissolved Solids, pH, Methyl Tert Butyl Ether (MTBE), or Methanol in the overall waste stream.

4. Nothing disposed of under this authorization can be off specification product or any hazardous waste, either by Nevada's definition or by Wyoming's definition.

5. This authorization will end January 1, 2000. Any additional waste will be required to be covered by a new permit.

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-11-99
Date of Issuance

RFL/mad 92557.ltr

STATEMENT OF BASIS FOR A CONSTRUCTION PERMIT

I. General information.

A. Permit Number: 99-426

B. Facilities Covered: The Coastal Chem One Time Disposal of Off Site Waste

C. Class of Facility: 1 Non Hazardous (Under Chapter 13)

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.	Yes
C. Chapter 11.	No	F	Chapter 16.	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.

Yes: This is a one time authorization to allow Coastal Chem to dispose of off site wastewater from its Battle Mountain, Nevada plant into the existing Class I injection wells at the Cheyenne plant. Authorization allows Coastal Chem, Inc. to use available capacity in its injection system on days when that system is operating at minimal capacity. Wastewater is from a similar plant to the Cheyenne plant, although it is somewhat stronger in chemical concentration. Nothing in this permit allows Coastal Chem to violate any section of its existing Class I UIC permit 95-294. That permit contains limitations on injection water concentrations, volumes and pressures of injection. The permit being issued contains conditions to insure that this disposal does not result in any environmental damage and does not result in any violation of existing permits.

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 Section 15, Chapter III. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 15. (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 for the entire wastewater system previously 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 Basi

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 5, Chapter 16, Wyoming Water Quality Rules and Regulations. This review was performed by Robert F. Lucht, P.E. and P.G., UIC Program Supervisor, and completed on October 5, 1999. 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

Jim Geringer, Governor

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

ADMIN/OUTREACH	ABANDONED MINES	AIR QUALITY	INDUSTRIAL SITING	LAND QUALITY	SOLID & HAZ. WASTE	WATER QUALITY
(307) 777-7758	(307) 777-6145	(307) 777-7391	(307) 777-7369	(307) 777-7756	(307) 777-7752	(307) 777-7781
FAX 777-3610	FAX 777-6462	FAX 777-5616	FAX 777-6937	FAX 777-5864	FAX 777-5973	FAX 777-5973

October 7, 1999

Phil Morrow
V.P. of Manufacturing
Coastal Chem, Inc.
P.O. Box 1287
Cheyenne, WY 82003

Re: Disposal of wastes generated off site at the Coastal Chem Cheyenne plant

Dear Mr. Morrow:

Enclosed please find permit 99-426 to allow a one time disposal of ammonium nitrate wastes generated at Coastal's Battle Mountain, Nevada plant. This disposal was allowed pursuant to Underground Injection Control permit UIC 95-294 under existing language in that permit. Any future off site waste disposal at the Cheyenne plant will be required to be done as a modification to this UIC permit, including a public notice period.

Sincerely,

Robert Lucht, P.E. & P.G.
UIC and AUST Program Principal
Water Quality Division

RFL/mad 92567.ltr

LAND APPLICATION PERMIT

X New
Renewal
Modified

PERMIT NO. 99-427
SPECIAL CONDITIONS

This permit hereby authorizes the applicant:

Marathon Oil Company
1501 Stampede Avenue
Cody, WY 82414

to land apply reserve pit water (precipitation on freshwater drilling mud) according to the procedures and conditions of the application number 99-427. The application site is located in SW/4 of Section 19 36N 86W in the county of Natrona, in the State of Wyoming. This permit shall be effective until November 30, 1999.

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 land application 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 land application. By issuing this permit, the state does not waive its sovereign immunity.

The permittee shall allow authorized representatives from the DEQ, Water Quality Division (WQD), 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 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 4. The permittee shall notify representatives from the DEQ/WQD of the anticipated project commencement and completion dates with the attached post card. 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, 3030 Energy Lane, Casper, WY 82604, telephone (307) 473-3452; FAX (307) 473-3458.

2 of 4. 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 4. The permittee shall provide certification that the project was completed in accordance with the terms and conditions of the permit within sixty (60) days of the project completion to the Casper WDEQ Field Office on the attached Certification of Completion form.

a. Date that the land application was completed; and

b. Certification the land application was done in accordance with the terms and conditions of the permit; or

c. Certification the land application was completed with changes or modifications. Submit the information necessary to clearly indicate the land application as actually performed. This information shall include a contour map depicting only those sections that actually received reserve pit water.

4 of 4. The review and approval of this permit is based upon the items identified in the attached Statement of Basis.

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

10-18-99
Date of Issuance

Dennis Hemmer
Director
Department of Environmental Quality

JDL/pr: October 11, 1999
b/92634.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 99-427

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.

N/A

B. Briefly state the basis for the deviation.

N/A

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).

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1]. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

The opportunity for direct or indirect discharge, percolation, and infiltration of the reserve pit water to groundwater or surface water is minimized by the location of the facility with respect to waters of the state, the uniform application of the water, the low permeability of the native clay soils, and the natural evaporation/evapotranspiration processes.

---

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

Analytical data for the reserve pit water show no constituents or parameters of concern with respect to water quality standards.

VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Dennis Lamb, Senior Environmental Analyst and completed on October 11, 1999. 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."

JDL/bb/92634.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-429
SPECIAL CONDITIONS

Harold Clark - Septic Tank/Leachfield System

This permit hereby authorizes the applicant:

Harold Clark
P.O. Box 134
Manderson, WY 82432

to construct a septic tank and leachfield system according to the procedures and conditions of application number 99-429. The facility is located in NE1/4 NW1/4 Section 31, T50N, R92W in the county of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-15-99
Date of Issuance

DHC/mad 92597.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-429

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

Not Applicable

---

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

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Doyle H. Conklin, Southwest District Engineering Supervisor, and completed on October 12, 1999. 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."

PERMIT TO CONSTRUCT

✓ New
Renewal
Modified

PERMIT NO. 99-430RR
SPECIAL CONDITIONS

Valley View Water System and Sanitary Sewer Collection System
PWS #WY(New System - no number assigned yet)

This permit hereby authorizes the applicant:

Valley View Water Co.
c/o Gannett Horn
P.O. Box 2806
Jackson, WY 83001

to construct a 150,000 gallon buried concrete water storage tank, a pump house, 707 feet of 2" diameter PE supply line, 1,518 feet of 8" diameter DI water line including 4 fire hydrants, 227 feet of 8" diameter PVC sewer main with 2 manholes and two services with 1000 gallon grease traps according to the procedures and conditions of application number 99-430RR. The facility is located in SE 1/4 Section 17, T40N, R116W in the county of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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 engineer's design are the responsibility of the permittee, owner, and/or operator.

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

The permittee shall construct and operate the permitted facility in accordance with the statement, 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 notify the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, 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.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

8-3-2000
Date of Issuance

Dennis Hemmer
Director
Department of Environmental Quality

DHC/mad/019886-ltr
cc: Teton County Planning; 180 South King; Jackson, WY 83001

STATEMENT OF BASIS

General information.

Permit Number: 99-430RR

II. Application reviewed for compliance with the following regulations.

A. Chapter 11. Yes

B. Chapter 12. Yes

III. Basis for issuing permit.

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section 2.

Yes

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter 11, or 12.

No

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No

IV. Facilities not specifically covered by regulations.

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3[1].
Not Applicable

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter 3, Wyoming Water Quality Rules and Regulations. This review was performed by Doyle H. Conklin, SW District Engineering Supervisor, and completed on July 31, 2000 . 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."

---

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

The State
of Wyoming

Jim Geringer, Governor

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

ADMIN/OUTREACH	ABANDONED MINES	AIR QUALITY	INDUSTRIAL SITING	LAND QUALITY	SOLID & HAZ. WASTE	WATER QUALITY
(307) 777-7758	(307) 777-6145	(307) 777-7391	(307) 777-7369	(307) 777-7756	(307) 777-7752	(307) 777-7781
FAX 777-3610	FAX 777-6462	FAX 777-5616	FAX 777-6937	FAX 777-5864	FAX 777-5973	FAX 777-5973

April 10, 2000

CERTIFIED

Eric W. D. Kramer
P.O. Box 121
Baggs, Wyoming 82321

RE: Kramer Residential Septic System, Application # **99-431.**
APPLICATION RETURNED: Non-response to October 7, 1999 review.

Dear Mr. Kramer:

This application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct permitting process.

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 III, Wyoming Water Quality Rules and Regulations must be followed.

Sincerely,

Ronald L. Ewald

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

RLE/mad 00860ltr
cc: Kramer Children's Trust, c/o Mason F. Skiles, Trustee, 502 South 4th St., Laramie, Wyoming 82070
IPS

The State
of Wyoming

Jim Geringer, Governor

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

ADMIN/OUTREACH	ABANDONED MINES	AIR QUALITY	INDUSTRIAL SITING	LAND QUALITY	SOLID & HAZ. WASTE	WATER QUALITY
(307) 777-7758	(307) 777-6145	(307) 777-7391	(307) 777-7369	(307) 777-7756	(307) 777-7752	(307) 777-7781
FAX 777-3610	FAX 777-6462	FAX 777-5616	FAX 777-6937	FAX 777-5864	FAX 777-5973	FAX 777-5973

CERTIFIED

March 14, 2000

Eric W. D. Kramer
P.O. Box 121
Baggs, Wyoming 82321

and

Kramer Children Trust
c/o Mason F. Skiles, Trustee
502 South 4th St.
Laramie, Wyoming 82070

RE: Kramer Residential Septic System, Application # **99-431**, Non-response to review: Application to be Returned After Six Months

Dear Mr. Kramer and Mr. Skiles:

In October 1999, you submitted an application for a permit to construct a residential septic system to the Wyoming Department of Environmental Quality (DEQ)/Water Quality Division. This application was incomplete and a review was sent out by this office on October 7, 1999 requesting additional information. It has now been five months since this review was sent and no additional information or response has been submitted within this time period.

DEQ regulations require that if no response is received within six (6) months the application must be returned without approval. After an application has been returned, the entire process must be started over if the project becomes active again. Therefore, to prevent the application package from being returned after April 7, 2000, please submit a response to the October 7th review before this time expires. A copy of that review is included with this letter. Otherwise, this application will be returned at that time without approval for the project.

Also, please note that you must obtain a permit to construct before starting any construction on this septic system. Construction without a permit is a violation of the Wyoming Water Quality Rules and Regulations and can result in fines or other administrative enforcement actions. Please be advised that the next time DEQ personnel are in Baggs, they will be checking to see if any

construction has occurred at this property. If so, then enforcement actions by this agency for construction without a valid permit will have to be initiated. To avoid this situation, please respond to the review comments before April 7, 2000.

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

Sincerely,

Ronald L. Ewald

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

RLE/bb/00668.ltr

Enclosure: Copy of October 7, 1999 Review

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Kramer Residential Septic System

APPLICANT: Eric W.D. Kramer
P.O. Box 121
Baggs, Wyoming 82321
Ph: (307) 383-6856

OWNER: Kramer Children Trust
c/o Mason F. Skiles, Trustee
502 South 4th St.
Laramie, Wyoming 82070
Ph: (307) 745-5184

WATER QUALITY DIVISION REFERENCE NUMBER: **99-431**

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

DATE OF REVIEW: October 7, 1999

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. Ownership Question - The Carbon County Assessor indicates that this property is owned by a Trust which is overseen by a Trustee, Mason F. Skiles. If this is correct, then Mr. Kramer cannot sign the application because he is not the legal owner. If this is the case, the application must be signed by Mr. Skiles as the Trustee of the Trust. Please provide

a copy of the deed, and copies of any applicable Trust documents. A new blank application form is included with this review.

2. Percolation Test Questions - How deep were the percolation test holes? Were they presoaked, and for how long?

3. Proximity of Nearby Waterways - How close is the river, or slew, or other water body to the septic tank and leach field?

4. Leachfield Questions:

- What model of "Infiltrator" is to be used? Are they the standard section, EQ24, or EQ36? Please give dimensions for width, length, and height.
- How deep are the trenches going to be?
- The trenches should be divided into equal lengths on both sides of the Tee.
- Please show a replacement leachfield area on the plans.

RLE/mad 92585.ltr
Enclosure: Blank Application Form

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on permit.
- Write *"Return Receipt Requested"* on the mailpiece
- The Return Receipt will show to whom the article w delivered.

I also wish to receive the following services (for an extra fee):

essee's Address
ricted Delivery
naster for fee.

Who is Gordon R. Johnson

3. Article Addressed to:
Eric W.D. Kramer
P.O. Box 121
Baggs, WY
82321

☒ Certified
☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

Gordon R Johnson
5. Received By: *(Print Name)*

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature: *(Addressee or Agent)*
X

PS Form **3811**, December 1994 102595-97-B-0179 Domestic Return Receipt

Thank you for using Return Receipt Service.

DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE OF WYOMING
UNDERGROUND INJECTION CONTROL PERMIT
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS

ISSUED UNDER CHAPTER 16, WATER QUALITY RULES AND REGULATIONS

(X) New
( ) Modified

Permit Number: UIC 99-432
Subclass Number: 5E3

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations, Chapter 3 (1988), and Chapter 16 (1998),

Applicant: Wyoming Department of Transportation
P.O. Box 1708
Cheyenne, WY 82006
ATTN: Larry Lijewski
(307) 473-3214

is authorized to operate the Lusk Rest Area Wastewater Facility in the NE¼, Section 13, Township 32 North, Range 64 West, of the 6th Principal Meridian; according to the procedures and conditions of application # 99-432 and other conditions of this permit as contained on pages 1 through 10.

This permit shall become effective on date of issuance.

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

2/22/00
Date

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

2-22-00
Date

TABLE OF CONTENTS

A. DISCHARGE ZONE AND AREA OF REVIEW 3
Discharge Zone: 3
Area of Review 3

B. GROUNDWATER CLASSIFICATION 3

C. AUTHORIZED OPERATIONS 4

D. ENVIRONMENTAL MONITORING PROGRAM FOR GROUNDWATERS OF THE STATE 4
Samples and measurements 4
records of all monitoring information 4
information shall include 4
groundwater in the receiving formation 4
waive further monitoring 5

E. REQUIREMENTS FOR MONITORING THE DISCHARGE 5

F. RECORDS AND REPORTS 6
retain copies of all reports 6
planned physical alterations or additions 6
submitted no later than 30 days 7
report any noncompliance 7
other information 7
noncompliance with a permit condition or malfunction 7
written submission shall be provided within 5 days 7
noncompliance not reported otherwise 7
failed to submit any relevant facts 7
retain all records concerning the nature and composition 7
public notice and an opportunity for hearing 7
annual report of operations 7
report for an aborted or curtailed operation 7

G. GENERAL PERMIT CONDITIONS 7
permit may be modified, suspended or revoked 7
reviewed at least once every 5 years 7
modified at any time as may be required 7
Public notice of the permit review 7
Any permit noncompliance constitutes a violation 7
filing of a request 7
(permittee) is always responsible for permit compliance 8
legal action 8
does not convey any property rights 8
provisions of this permit are severable 8
waste which migrates into an aquifer 8
permit is for a term of ten years 8
modification which may result in a violation 8
construction requirements 9
notify the administrator 9
construction is complete 9

H. DUTIES OF THE PERMITTEE 8
Comply with all permit conditions 8
Halt or reduce activity 8
Take all reasonable steps 8
Furnish to the administrator 8
Operate and maintain all facilities 8
enter the premises where a regulated facility 9

I. SPECIAL MEASURES THE DIRECTOR FINDS NECESSARY: 9
sewage is found to be surfacing 9
Before being allowed to hook up any recreational vehicle 9
This permit replaces entirely permit 92-051R 9
After the first three years of operation 9
The permittee shall maintain all major systems 9
Operation and Maintenance (O&M) Manual 9
licensed Level IV Wastewater Plant Operator 9
For a corporation 9
For a partnership or sole proprietorship 9
By a duly authorized representative 9
authorization is no longer accurate 9
certification 10

****

A. DISCHARGE ZONE AND AREA OF REVIEW

1. **Discharge Zone:**

This injection facility (sanitary leachfield) is authorized to inject into the Arikaree Formation which is found at this location from zero to 50 feet below the ground surface.

2. **Area of Review**

The facility authorized by this permit is located in:

Township 32 North, Range 64 West, 6th Principal Meridian
Section 13: NE¼

The Area of Review around this facility is legally described as:
Township 32 North, Range 64 West, 6th Principal Meridian
Section 13: SW¼NE¼NE¼
Section 13: SE¼NW¼NE¼
Section 13: S½NE¼
Section 13: NE¼SE¼
Section 13: NW¼NW¼SE¼
Section 13: E½NW¼SE¼

B. GROUNDWATER CLASSIFICATION

1. The groundwater in the Arikaree Formation is classified as class I (Domestic) under Chapter 8 of Wyoming Water Quality Rules and Regulations (March 11, 1993). This classification was made because:

a. The groundwater in this formation meets all of the quality standards set forth in Chapter 8 for class I water;

b. The groundwater in this formation is currently being used for domestic purposes at several points of withdrawal; and

2. Groundwater of class I shall not be degraded so as to make it unusable as a source of water for this purpose. Any parameters which do not meet the class of use standard shall not be degraded whatsoever.

C. AUTHORIZED OPERATIONS

1. The Wyoming Department of Transportation is authorized to inject 53 barrels per day, (2,230 gallons per day) of wastewater as described: Sanitary waste only from a highway rest area. The waste to be disposed of is to be treated first in a septic tank. The operator is authorized to inject at a pressure of no more than atmospheric pressure as measured at the leachfield. This pressure is controlled by gravity drainage and is not required to be monitored.

2. **Hazardous Waste** This permit does not allow for the injection of any hazardous waste as defined by 40 CFR 261. Injection of any substance defined as hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

D. ENVIRONMENTAL MONITORING PROGRAM FOR GROUNDWATERS OF THE STATE

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

2. The Wyoming Department of Transportation shall prepare records of all monitoring information t retained for a period of at least 3 years after closure of the facility.

3. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;
   b. The name(s) of individual(s) who performed the sampling or measurements;
   c. The date(s) analyses were performed;
   d. Names of individuals who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

4. The groundwater in the receiving formation shall be sampled and the following parameters analyzed on the following schedule and from the following wells.

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (UCL)*
A Monitor Well to be drilled due south of the leachfield on WDOT property; and	Quarterly	EPA Method 350.3	Ammonia as N	.500
		Standard Methods 2540 C. Mod.	Total Dissolved Solids	500
		EPA Method 200.7	Manganese	.05
		EPA Method 604	Phenol	.001
Monitor Well #1; and		EPA Method 353.2	Nitrate as N	10.0
Monitor Well #2		Microbiological Methods for Monitoring the Environment p. 108	Total Coliform	1 colony/100ml

*All chemical concentrations in this permit are expressed in mg/l unless otherwise noted. Prior to taking the above samples, The Wyoming Department of Transportation shall monitor the static water level in monitor wells MW-1, MW-2 and MW-3 as well as the monitored well. The results of those measurements shall be reported along with the sampling results.

For the new monitor well to be drilled south of the leachfield, the above Upper Control Limit (UCL) is not to be exceeded in any sample. Exceedance of this value is a violation of this permit and shall require corrective action. For Monitor wells #1 and #2, it is already known that some of these values are being exceeded now. After the first three years of operation, exceedance of any of these values in any of these wells will be a violation of this permit and will require corrective action.

5. After the first two years of operation, the Water Quality Division may, without reissuing this permit, waive further monitoring of any parameter from the above list or may require additional monitoring based on new information about the nature of the waste. The Water Quality Division may also, after the first two years of operation, approve a more or less stringent monitoring schedule.

E. REQUIREMENTS FOR MONITORING THE DISCHARGE

The Wyoming Department of Transportation shall monitor the quality of the effluent from the septic tank at the point where the flow leaves the tank on the following schedule. The following parameters shall be analyzed by the listed methods and reported annually:

SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (UCL) *
Quarterly	EPA Method 420.1	Total Phenols	.250
	EPA Method 353.2	Nitrate as N	15.0
	EPA Method 350.3	Ammonia as N	150

*All chemical concentrations in this permit are expressed in mg/l unless otherwise noted. The above Upper Control Limit (UCL) is not to be exceeded in any sample. Exceedance of this value is a violation of this permit and shall require corrective action. In the event that any contaminant is found to

exceed the above UCL's The Wyoming Department of Transportation shall undertake a study to determine and eliminate the source of that contaminant from the waste stream. Any parameter found to be exceeding the above UCL shall be sampled for in the downgradient wells if not already sampled for. After the first two years of operation, the Water Quality Division may, without reissuing this permit, waive further monitoring of any parameter from the above list or may require additional monitoring based on new information about the nature of the waste. The Water Quality Division may also, after the first two years of operation, approve a more or less stringent monitoring schedule.

F. RECORDS AND REPORTS

1. The Wyoming Department of Transportation shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.

2. The Wyoming Department of Transportation shall give notice to the administrator as soon as possible of any planned physical alterations or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alteration or addition.

3. 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 30 days following each schedule date.

4. The Wyoming Department of Transportation shall report any noncompliance which may endanger health or the environment, orally 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 groundwaters 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.

5. The Wyoming Department of Transportation shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 4. above.

6. When The Wyoming Department of Transportation becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the administrator, it shall promptly submit such facts or information.

7. The Wyoming Department of Transportation shall retain all records concerning the nature and composition of injected fluids until 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.

8. A subsurface discharge (injection) facility may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, an underground injection control permit has been issued by the department for the proposed operation.

9. The annual report of operations for this facility shall be submitted on forms provided by the department and shall include the following information:

   a. Any permit exceedances within the previous year.

   b. The analytical results for sampling for the injected water and any groundwater sampling results required under Section D or E of this permit.

   c. Annual reports are due in the Cheyenne office of the Water Quality Division no later than December 1 of each year.

10. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

G. GENERAL PERMIT CONDITIONS

1. 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:

   a. Violation of the permit;

   b. Obtaining a permit by misrepresentation or failure of the discharge well or system.

2. Each permit is reviewed at least once every 5 years, and may be reviewed more frequently.

3. 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 is issued. A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in The Wyoming Department of Transportation's discharge, as may be ordered by the council. This permit can be terminated by authority of the administrator for one or more permit violations.

4. Public notice of the permit review and request for public comment will be made every 10 years by the administrator.

5. Any permit noncompliance constitutes a violation of the permit and is grounds for enforcement action, permit termination, revocation, or modification.

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

7. The owner/operator of record (permittee) is always responsible for permit compliance. A permit holder cannot transfer his permit without approval of the department director, and no such transfer will be approved if the facility is not in compliance with the existing permit unless the proposed permittee agrees to bring the facility into compliance.

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

9. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

10. The provisions of this permit are severable, and if any provision of the permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

11. Pollution or waste which migrates into an aquifer containing a usable groundwater of the state is a violation of the permit.

12. This permit is for a term of ten years. If The Wyoming Department of Transportation wishes to continue injection after the expiration date of this permit, they will be required to apply to the Administrator for, and obtain, a new permit.

13. 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 a permit condition shall be reported to the administrator through the submission of a new or amended permit application.

14. The injection facility covered by this permit shall meet the construction requirements found in Section 10 of Chapter 16, and Part D of Chapter 11, Water Quality Rules and Regulations. The permittee shall submit notice of completion or construction to the administrator and allow for inspection of the facility upon completion of construction prior to commencing any injection activity.

15. The permittee shall notify the administrator seven (7) days prior to conversion of this facility to other use, or final abandonment of the facility.

16. Injection shall not commence until all construction is complete.

H. DUTIES OF THE PERMITTEE

It is a duty of the permittee to:

1. Comply with all permit conditions;

2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce The Wyoming Department of Transportation activity in order to maintain compliance with the permit conditions;

3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit; and

4. Furnish to the administrator within a reasonable time, any information which the administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the administrator, upon request, copies of records required to be kept by this permit.

5. 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 this permit. Proper operation and maintenance includes effective performance, adequate funding and operator staffing and training, and adequate 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 the permit.

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

I. SPECIAL MEASURES THE DIRECTOR FINDS NECESSARY:

1. In the event that sewage is found to be surfacing from the leachfield covered by this permit, this is a violation of this permit and shall be reported immediately as required by Section F of this permit. The Wyoming Department of Transportation shall submit a modified application showing plans for a replacement leachfield (or other type of waste disposal method) within 90 days of determining that the primary leachfield has failed.

J. SIGNATORIES REQUIREMENT

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

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

   b. For a partnership or sole proprietorship -- by a general partner or the proprietor, respectively;

   c. 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 described 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.

2. 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 an authorized representative.

3. Any person signing a report or other requested information shall make the following certification:

> "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

RL/bb/00416.ltr

STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

A. Permit Number: 99-432

B. Facilities Covered: The Lusk Rest Area Wastewater System. Covers a new leachfield with a capacity of 2,230 gallons per day.

C. Class of Facility: 5E4 (Under 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 Section 15, Chapter III. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 15. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

Applicable. This is an existing system which is being modified. The modification requires the owner to obtain an individual UIC permit to allow modifications to the system. The new system will use a new septic system and leachfield. The existing leachfield has caused a groundwater standards violation for Nitrate as N and will require monitoring to insure that the modifications correct this problem. A groundwater review has been completed in accordance with Section 15. This system will provide for a flow capacity to 2,230 gallons per day.

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 November 3, 1999 and ending on December 3, 1999 (30 day notice as required by Chapter 16.) This notice was published in the Lusk Herald 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 Section 5, Chapter 16, Wyoming Water Quality Rules and Regulations. This review was performed by Robert F. Lucht, P.E. and P.G., UIC Program Supervisor, and completed on October 20, 1999. 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."

RFL/bb/92764.ltr

WYS 027-005

The State
of Wyoming

Jim Geringer, Governor

Department of Environmental Quality

Herschier Building • 122 West 25th Street • Cheyenne, Wyoming 82002

ADMIN/OUTREACH	ABANDONED MINES	AIR QUALITY	INDUSTRIAL SITING	LAND QUALITY	SOLID & HAZ. WASTE	WATER QUALITY
(307) 777-7758	(307) 777-6145	(307) 777-7391	(307) 777-7369	(307) 777-7756	(307) 777-7752	(307) 777-7781
FAX 777-3610	FAX 777-6462	FAX 777-5616	FAX 777-6937	FAX 777-5864	FAX 777-5973	FAX 777-5973

February 22, 2000

Larry Lijewski
WDOT
P.O. Box 1708
Cheyenne, WY 82006

RE: Underground Injection Control permit, Wyoming Department of Transportation

Dear Mr. Lijewski:

The Water Quality Division has completed its review of the technical points involved in issuing Underground Injection Control (UIC) Permit 99-432 to the Wyoming Department of Transportation (WDOT) for the purpose of installation of a large capacity septic system at the Lusk Rest Area. All comments received, both in writing and verbally at the public hearing conducted on January 19, 2000 in Lusk have been considered. As a result, the proposed permit has been modified with a stronger required monitoring program. Changes made to the permit are summarized on the first page of the response to comments document enclosed.

Please find enclosed, a copy of the transcript of the public hearing, a copy of the response to comments document, and a copy of the final signed permit for this project. Thank you for your interest in this permit. The final permit is a stronger document then the draft permit written before public comment.

Sincerely,

Robert Lucht, P.E. & P. G.
UIC and AUST Program Principal
Water Quality Division

RFL/bb/00419.ltr
Enclosures

Holli Hollon and Hal Owen
222 Hewitt Drive
Billings, MT 59102

Vera A. Bredthauer
P.O. Box 1177
Lusk, WY 82225

Jack Lamb
Star Route 3, Box 345
Lusk, WY 82225

Donna Ruffing
P.O. Box 613
Lusk, WY 82225

Richard A. Lading
P.O. Box 21
Manville, WY 82227

Clinton, Laidon
P.O. Box 1328
Lusk, WY 82225

Bob Fister
P.O. Box 1077
Lusk, WY 82225

Bud Owens
P.O. Box 202
Lusk, WY 82225

Elaach Smith
515 Cheyenne River Road
Newcastle, WY 82701

David Bredthauer
P.O. Box 222
Lusk, WY 82225

RESPONSE TO COMMENTS
LUSK REST AREA
UIC PERMIT 99-432

This document is a response to comments made by the public during the public notice period, the public hearing conducted January 19, 2000, and the extended public notice period which ended February 1, 2000. There were many comments very similar submitted by different individuals. When this occurred, we tried to state the comment as precisely as possible to reflect the concerns raised by both individuals and then prepared one response. For this reason, the exact wording of some individual comments may not be found in this document. This document is arranged with comments from the public hearing first followed by written comments. Comment received in writing start with comment 31.

MODIFICATIONS MADE TO THE PERMIT:

As a response to the comments received the monitoring plan included in the permit has been changed as follows:

1. Originally, the permit did not require the Wyoming Department of Transportation (WDOT) to monitor Monitor Wells 1 and 2. There is a minor groundwater standards violation in Monitor Well 1 which should be eliminated by the installation of the new system. The modified permit requires that WDOT monitor both of these wells in addition to the new well to be drilled south of the leachfield.

2. Originally, the permit required that WDOT monitor for only Ammonia and Nitrate in the down gradient monitor well. The modified permit requires that WDOT also monitor for Total Dissolved Solids, Manganese, and Phenol in all three monitor wells.

3. No other changes have been made. All of the changes made are found in section D.4 found on page 5 of the final permit.

TERMS USED IN THIS DOCUMENT:

The department's response necessarily uses some words which are not common to the vocabulary of interested persons. To assist in public understanding, the following words are defined:

EPA: The United States Environmental Protection Agency. This is a federal agency which administers many environmental programs. For some of its programs, the Wyoming Department of Environmental Quality has primacy and for some we do not.

Effluent: Treated wastewater after treatment in the septic tank when it is discharged to the leachfield.

Gradient: The direction groundwater flows. Groundwater flows from a higher pressure area to a lower pressure area, much the same way that air flows from high pressure areas to lower pressure areas. Groundwater flows are much slower and are retarded by the matrix of the aquifer itself. Down gradient means the direction that groundwater is flowing towards, while up gradient means the direction that the flow came from.

Leachfield: The system of perforated pipes and gravel which allows the wastewater to percolate slowly into the subsurface. Leachfields are also treatment systems, since they are biologically active and convert wastewater to safe forms when installed and operated properly. The terms 'leachfield' and 'drainfield' mean exactly the same thing in this context and are used interchangeably.

Monitoring: To sample and analyze, to quantify, measure, or otherwise characterize a discharge or its affect on the environment. Monitoring can take the form of measuring flows, measuring pressures, or groundwater heads, or chemically analyzing samples taken from monitoring wells.

Primacy: Under most EPA programs, a state can assume primacy for the implementation of the program. This means that the state, and not the federal government issues any required permits and enforces the requirements of those programs. Primacy usually means that the federal rules have also been promulgated as state rules, and that the state rules have been incorporated into the federal register. When primacy has been granted to the state, the state rules take precedence over federal rules whenever those rules are not identical. Wyoming has Primacy in the UIC program.

Permit: In this case, an Underground Injection Control Permit issued under Chapters 3 and 16, Wyoming Water Quality Rules and Regulations which authorizes the construction and operation of a subsurface disposal system.

Phenol: An organic chemical with a formula $C_6H_5(OH)$. By stripping off the hydrogen atoms on this molecule and replacing them with various other atoms and radicals, the basic molecule can be made into a whole range of derivative compounds.

SEO: Where this term is used in this document we are referring to the Wyoming State Engineer's Office. The SEO has broad legal authority over water rights in Wyoming, both groundwater and surface water.

UIC: The Underground Injection Control Program. A regulatory program governing the emplacement of fluids into the subsurface for any purpose with a few exceptions. All subsurface disposal of wastewater is regulated and many injections for other reasons are also regulated.

COMMENTS AND RESPONSES:

Copies of all written comments received and a copy of the transcript of the hearing are both attached. The transcript was very difficult to prepare because it is hard to hear many of the comments on the original tape. The comments shown here are based on the transcript and the personal recollections of the DEQ personnel who were present.

COMMENT 1: The city has some concerns, like a Recreational Vehicle (R.V.) dump and I don't see that. We are opposed to that.

RESPONSE: In this permit, the WDOT is removing the R.V. dump and they have not proposed to replace it.

COMMENT 2: If there's an R.V. dump put in does that change the permitting of this or will they need to get a different permit?

RESPONSE: If WDOT decides to put in an R.V. dump in the future, that will be a major change in this permit. We would have to modify the permit and we would have to go through the whole public notice period again. They would have to demonstrate that such an addition would be protective of the groundwater.

COMMENT 3: If somebody that is down gradient from this leach field ends up having problems with their drinking water what is their recourse and what sort of action would be taken at that point?

RESPONSE: If someone down gradient has a problem with their drinking water, we would hopefully know it before they did. The monitoring wells on WDOT property should show us before it ever becomes a problem. If you have a problem with your well, you have a right to file what we call a citizens complaint. DEQ will do an investigation to see if we can decipher what is the source of the pollution. If we find that there is someone violating a standard, we would take an action to correct that source.

COMMENT 4: Has the replacement monitor for well 2 been drilled yet? Does that have to be done before the permit is issued?

RESPONSE: No, that would be done as part of the construction of the leach field. We would require that they put the monitoring well in when they build the new leach field.

COMMENT 5: Isn't it true that all three monitor wells failed the Phenol analysis?

RESPONSE: For background information, Phenol is an interesting problem to analyzed for, in almost every case applicants are using what is called total phenolic hydrocarbons

analyzed for phenol. Total phenolic hydrocarbons is not exactly a proxy for phenol itself. In fact, phenol is a chemical building block that is present in thousands and thousands of products. What they do in chemically analyzing for total phenolic is to convert all molecules which contain a phenol to a red brown dye and then read the intensity of the color which is then reported as total phenolics. Our standard for phenol is .001 milligrams per liter. You can not analyze for phenol down to that level, but the total phenolic analysis does have detection limit that low. So we can tell there is something down at those very low detection limits, but we can't tell you exactly what it is. There is .001 milligrams per liter of total phenolics in well number three, but we don't know whether that is phenol or any number of derivative compounds. Phenol itself is not particularly toxic. Phenol is actually edible to some degree. In fact, many of you buy things such as camphofanique to put on cold sores that's about 30% phenol. The standard we have for phenol in groundwater is a taste and odor standard and you can't taste it to that level.

The short answer is: yes, it is present, at or near the detection limit for total phenol. If you did the analysis that is specific for phenol it would probably be non-detectable because the detection limit for phenol is anywhere from 25 to 50 micrograms per liter depending on the matrix of the sample.

COMMENT 6: What's the EPA's maximum contaminate limit for phenol?

RESPONSE: The EPA has never set a limit on drinking water for phenol. An EPA toxicologist has been consulted about Phenol in the past, and he stated that it would be a low priority for them to limit phenol in public drinking water supplies. But if they did set a limit, they're telling me they would probably set that limit somewhere around 6 milligrams per liter.

COMMENT 7: In the permit it says that the sampling will be quarterly and in case Centennial's document on page 4 says it will be annually. Which is it?

RESPONSE: It will be quarterly, per the permit requirements.

COMMENT 8: In the permit it says after 2 years you can waive further monitoring or you can modify the monitoring schedule. Will we be notified if and when you do that?

RESPONSE: Not necessarily. We put this language into these permits so to give ourselves some flexibility. Now there are certain things that are not going to go away. The department will not eliminate the ammonia and nitrate in the monitoring wells. The department has also required WDOT to monitor the septic tank itself. The reason for that monitoring is just to see to it that effluent that is in that septic system is pretty much normal domestic waste. If, after quarterly analysis for two years, we see that septic system has about the same thing every other septic system has in it and we're

not seeing a groundwater standard violation in the monitor well we've simply given ourselves the flexibility to write a letter to them and say I think we've seen enough of your analysis in that septic tank we can drop that. But, the primary control is on the monitoring well down gradient. This clause also gives us the flexibility to increase the monitoring in response to a problem without going back through the permitting process.

COMMENT 9: Monitor well one has shown high nitrate levels. Centennial expects that to drop to less than 10 milligrams per liter, shortly after the new system is put into use. What happens if it doesn't?

RESPONSE: The permit will be modified to require monitoring of that well until the Nitrate levels drop.

COMMENT 10: How much time are you going to give that? If the monitor well returns to background two days after the new system is in that is fine. But what if it is still high ten or fifteen years from now?

RESPONSE: This is a good illustration of exactly what we're talking about when we talk about the treatment systems. We have an exceedance right at this existing leach field, but there's no exceedance down gradient, 150 feet at monitor well number two. If they continue to monitor that well and if it does not drop then there is obviously a concern. We would have to respond to that at some point, but the exact response and the exact timing would depend a lot on what we actually see during monitoring.

COMMENT 11: Is the Nitrate in monitor well one coming from there or coming from somewhere else?

RESPONSE: The department believes that it's coming from the existing leach field, although it is possible that it could be coming from somewhere else. The reason for this belief is simply because the existing leachfield is so close, and it is the most likely source. Obviously, we might have to respond to that concern if our monitoring eventually indicates it is coming from up gradient.

COMMENT 12: I was just wondering what is the relationship of the distance from the leach field to the well versus the sewers or whatever it is percolating directly down into the soil. Would it be possible for the monitoring well to pick it up that way.

RESPONSE: The existing monitoring wells are anywhere from 36 to 50 feet deep, and the groundwater is 27 to 35 feet deep in those wells. We're talking about a new monitor well that would be drilled in the area between the leachfield and the south property boundary. This new well would penetrate the top of the aquifer, the part of the aquifer that's most likely to have any kind of an impact at all.

COMMENT 13: This is a 10 year permit that will be reviewed in five years, is that right?

RESPONSE: Our rules require that we do what's called a review of the permit in five years, that's true. We simply require that every permit runs for 10 years and then it has to be renewed. After five years we have to review it. All that means is that the department has to go through and look at the permit, look at the monitoring that's being done under that permit and make some kind of statement that the permit is actually doing what it's suppose to do. If we find a problem with a permit during that review then we have to take some action to correct the problem.

COMMENT 14: Are those the permits we're putting on the 303D list for review?

RESPONSE: The ones on the 303D list are for surface water discharges, those are 5 year permits. This is a groundwater permit.

COMMENT 15: What happens if they have their monitor well in and one of their quarterly reports shows an exceedance of the standards, do they have to report that?

RESPONSE: If there's an exceedance of the standards, they do have to report it and there is a procedure written under the permit. In some cases they have to follow up with a confirmation sampling. When we get one that is out of compliance for two or three quarters in a row we start looking for some changes in the operation to eliminate the permit violation. It's in the permittee's interest to locate the monitoring wells a reasonable distance from the facility. Subsurface treatment systems like this require some space and time to actually create the right kind of conditions to break the nitrate down.

COMMENT 16: How deep will monitoring well number four be?

RESPONSE: If they go right where their boundary line is, that's right on top of the big hill south of the new leachfield, it will probably be a lot deeper than the existing ones, because you can see that hill goes up about 25 or 30 feet. If they elect to drill closer to the leachfield it will be approximately the same depth as the existing wells.

COMMENT 17: Are these monitoring wells cased or open holes?

RESPONSE: The typical monitoring well is a small diameter well. It may be 2" or 4". Cased with polyethylene plastic. The permit application contains a diagram showing how the monitor wells are done. They're simply small diameter wells that you take a sample out of. In most cases, all we do to sample a well like that is take a bailer and bale out enough water so we know we're getting water from the aquifer, that's all there is to it.

COMMENT 18: I'm wondering if the contaminated water would hit the casing and percolates down along it and get into the well where you're doing monitoring? In other words, can the monitoring well itself become a pathway to spread the contamination deeper than it would get by itself?

RESPONSE: The monitoring well is designed to preclude that from happening. Monitoring wells are drilled and cased with PVC casing and then sand packed to just above the perforations. The remainder of the well is sealed outside the casing with bentonite to prevent anything from traveling down around the outside of the casing. The depth to the water level is measured and this is used along with the total depth to calculate how much water is actually inside the well. Before a well is sampled 3 casing volumes are removed to ensure that water sampled is actually indicative of the groundwater adjacent to the well.

COMMENT 19: Is the monitoring well in direct line from where you're supposedly injecting?

RESPONSE: The permit requires that the monitor well be drilled directly down gradient from the point of injection. The gradient direction is well established so that we know exactly which way the groundwater is flowing.

COMMENT 20: From regional groundwater studies it looks like the water flows east. How is it you discern or determine it's going south from this point of injection?

RESPONSE: When they drilled three wells they surveyed the possible wells and measured the depth of the water. So in effect we know exactly what the elevation of the water is in these three different points. Groundwater behaves pretty much like water on the surface in that it flows downhill. In this case it flows down the groundwater surface elevation. That's the only way we have to determine which way your water flows.

COMMENT 21: You've measured the potentiometric surface of the water and you know it's sound. Does that mean that if there's a problem with the effluent from the discharge coming off of this leach field that the problem will be to the south?

RESPONSE: Yes

COMMENT 22: Do you have any idea, why the potentiometric surface seems to be to the south?

RESPONSE: There are a few possible explanations. The Arikaree is a fluvial formation just like the alluvial aquifer by the river is a fluvial formation. What that means is the groundwater is flowing through a whole group of channels. There are channel sands, there are shales, and so while you may have a gradient regionally that's in one direction. That regional gradient is made up of little meanderings and water flowing in virtually every direction. And what you won't find very often, you won't find

water flowing in the opposite direction from a regional flow. But you will see it flowing in anything up to 90 degrees on either side of the regional flow because it simply following the way the formation was laid down geologically.

Faulting along the Hartville uplift is another possible explanation that may influence the local groundwater flow.

COMMENT 23: We have four wells that are all within the depth of 42 to 49 feet that are all in that area. I guess when we talk about the Arikaree Formation, I guess it concerns me. We have two directly to the south and we have two that are south and east.

RESPONSE: This permit is drafted to allow the department to find any problem caused by this discharge when that problem is still very small. Corrective action can therefore be taken quickly. This early warning system, in the form of monitoring wells should prevent any contamination of a water well outside of the rest area property.

COMMENT 24: Would it be possible to run the sewage through the city sewage line since it's almost out there anyway?

RESPONSE: We understand that WDOT prefers to send its sewage to municipal treatment systems if at all economically possible. WDOT looked at three options: replacing the septic system, which was the most economical and most practical; pumping waste water with a pump system clear to the city limits which is about 1.4 miles; and trying to build a gravity flow sewer line. The department cannot dictate to applicants which of several legal solutions they can use. We understand that cost was not the only factor in WDOT's decision. WDOT discussed this with the City of Lusk which did not express any interest in having this additional wastewater.

COMMENT 25: Is there any fear of contaminates being to added to the septic system? Dumping of radioactive waste, hazardous chemicals, or anything other than domestic waste could pose a problem.

RESPONSE: The only way this could happen with this design is if someone hauled the waste into the bathrooms in 5 gallon buckets and dumped it down the toilets, or to open a manhole lid outside and dump it that way. We believe that someone who would illegally dispose of waste would probably find a place with less likelihood of being caught than a well lighted rest area.

COMMENT 26: Where is the 100.2 foot domestic well on this property?

RESPONSE: There are actually two wells on the site, one is currently used for the new rest area irrigation well, the other one that's closest to the old building is going to supply the potable water. Both wells are either up gradient or approximately parallel to the potentiometric water surface.

COMMENT 27: Have you noticed any deterioration or a decrease in water quality in either of those wells? They've been there since 1966, approximately?

RESPONSE: The Wyoming Department of Environmental Quality does not require sampling of public water supplies but the Department of Transportation will have the quarterly analysis required by the EPA. On its own initiative the WDOT analyzes monthly as a precautionary measure so they can catch something very quickly. WDOT has informed us that there has been no deterioration of the drinking water quality.

COMMENT 28: Has monitoring been done for chlorides in the potable water well?

RESPONSE: We understand that the WDOT does not monitor for chloride since there is very little concern for minor increases in chloride.

COMMENT 29: If there is a violation of groundwater standards, what are some of the possible corrective actions that could be taken? What would be the most severe corrective actions you might have to take?

RESPONSE: We have had one system like this that had a groundwater standards violations almost immediately. In that case we required the operator to aerate the septic tank and as soon as we did that the nitrate standard violation went away. There really hasn't been much trouble with these facilities after they've gotten UIC permits and had monitoring. There have been problems in the past with facilities that don't have UIC permits and have no groundwater monitoring controls in place. On those systems there have been complaints from people whose domestic water well has gotten nitrates in it. To remedy a problem, we may require anything from ceasing the discharge to modification of the point of compliance.

COMMENT 30: Have you ever had to shut a rest area down completely?

RESPONSE: We've never had to shut a rest area down through the UIC program. There aren't very many rest areas that have this level of permitting on them right now. Rest areas have been forced to close in the past because of failures in the waste disposal systems of various kinds.

COMMENT 31: Some of my land is just across Highway 20 from the Lusk Rest Area. We have planned to build a house on this land. I strongly favor the suggestion that the sewage from the Lusk Rest Area be piped to the Lusk City sewage system. This pipe would last forever and it would eliminate the need for someone to keep checking the leachfield and the Arikaree Formation and the wells for contamination.

RESPONSE: Although we certainly would encourage this option, we cannot force the WDOT to hook this system up to the City of Lusk municipal sewer. The only way we might force a hookup is when a proposed system is within the service area for the city sewer and where the distance to a sewer is very short. In this case, the rest area is clearly not in the service area for the City of Lusk municipal sewer, and the proposed system as designed can be legally constructed.

COMMENT 32: There are numerous wells and springs not listed on Table 2 and Figure 3 in the application. Commenter listed a total of seven wells and springs and requested that the application be corrected. In addition, the commenter noted a few misspelled words and requested that those be corrected.

RESPONSE: Table 2 and Figure 3 are supposed to show water wells and springs and surface water bodies within a one mile radius of the proposed new leachfield. The source of data for the wells was the State Engineer's Office for groundwater appropriations and the source of data for the wells and springs is the base map from the United States Geological Survey. For the noted wells and springs the following comments apply:

Permit UW 2075 was overlooked in preparing the map and table. This well is located at a distance of approximately 3300 feet east southeast of the proposed leachfield and is not in the down gradient direction. This well has been added to the review copy of the application.

Permit 22182 is a surface water filing on Reynolds Springs which is shown on the base map. Since the consultant did not research surface water rights he did not find the permit on this map. DEQ is not particularly concerned about *water rights*, but <u>is concerned</u> about the location of nearby surface water bodies. Reynolds Springs is clearly shown on the map supplied as part of the application. A notation has been made to the review copy showing that Reynolds Spring is surface right 22182.

The total depths for permits UW 2073 and 2076 are shown on the original appropriations as unknown. That is why they are shown in this way in the application. The final appropriation does have an approximate depth. Those figures have been added to the file copy.

Permit P11568P is shown on the map in the wrong place. This well is in the SE quarter of the NW quarter of Section 18. It is shown in the NW quarter of the SE quarter by mistake. The file copy has been corrected.

Permit P11567P was not shown but is located 40 feet from P11568P. The file copy has been corrected.

Permit P1121W is properly shown in the application. If there is a second well near it, it does not show up.

The requested changes have been made to the file copy of this application. None of these corrections materially changes the review of the permit itself, since none of these wells are down gradient from the proposed leachfield.

COMMENT 33: Who is doing the water sampling, where are the water tests being done, and what is the duration between sample collection and lab testing?

RESPONSE: If the question concerns the domestic well samples being taken on a monthly basis, the WDOT does its own sampling. The personnel who do these samples are taking tap samples from inside the rest area restrooms in accordance with procedures required by EPA. The tests are done by a contract laboratory certified under the EPA's drinking water program to do these tests. The duration between sample collection and testing is the subject of quality control procedures between the laboratory and the EPA. Maximum holding time varies depending upon the parameter tested. In the event that holding times are exceeded, then that fact will be noted on the results and the results are considered invalid. Presumably, the same person who presently samples all of the domestic water samples for WDOT will also check the monitor wells.

COMMENT 34: Since the upper limit for the discharge of Nitrate as N is 10 mg/l and monitoring well #1 recovered 27.6 mg/l, does it really make sense to move the leachfield and place monitoring well #4 as far as possible from the leachfield?

RESPONSE: Yes it does make sense from the following viewpoint: Under Wyoming Water Quality Rules and Regulations, a zone very close to a subsurface discharge may be allowed to exceed groundwater quality limits providing that: 1) a point of compliance can be established down gradient where there will be compliance with all groundwater standards during the operation of the system, and 2) that it can be shown that all groundwater contamination will cleanse itself shortly after the system is finally abandoned. The reason for allowing the first part of this demonstration is that active treatment of wastewater containing contaminants which can be broken down biologically takes place in the leachfield and immediately under the leachfield and perhaps within the groundwater itself. The septic tank works to remove insoluble

contaminants through settling and floating of oils, followed by a biological breakdown of these insoluble contaminants in the tank itself. The leachfield works to biologically convert all Ammonia first to Nitrite and then to Nitrate though aerobic breakdown. Aerobic breakdown must occur in the leachfield in the presence of oxygen. The Nitrate is then converted to Nitrogen gas through anaerobic biological breakdown. This final conversion must take place in the absence of oxygen in the zone under the leachfield which has been depleted of oxygen through the Aerobic breakdown process occurring in the leachfield. This final breakdown of Nitrate to Nitrogen gas takes time and space. The reason we place the monitor wells where we do is to allow the time and space necessary to complete the process before we declare the point of compliance.

We believe that the results submitted for the existing monitor wells illustrate the point quite well. Monitor Well #1 contains 27.6 mg/l of Nitrate as N at a point right next to the existing leachfield. Monitor Well #2 contains just 7.06 mg/l of Nitrate as N at a point approximately 120 feet directly down gradient from Monitor Well #1. The difference between these two readings is accounted for by the biological breakdown of the Nitrate between the two sampling points. We believe that if there were a third well another 120 feet south of Monitor Well #2, that it would show a similar reduction in Nitrate. Our efforts are centered around insuring that there is no groundwater standards violation at a point where the natural groundwater flow leaves the WDOT property, and before anyone else can make use of that water. We also believe that these same breakdown mechanisms will continue when and if the WDOT ever abandons this rest area permanently. In that case, the groundwater should return to background quality fairly rapidly.

COMMENT 35: Since many people in the area get their drinking water from the Arikaree Formation, a Class I aquifer, why allow the injection of partially treated sewage at the rest area into the same formation? Since the State of Wyoming has primacy, why not exercise that right?

RESPONSE: Wyoming Water Quality Rules and Regulations, Chapter 8 set up standards for different classes of groundwater. The Arikaree Formation is a class I aquifer, meaning that it is either suitable for use as domestic water supplies or that it is used for domestic water supplies regardless of whether it meets all of the standards or not. Chapter 8 allows limited degradation of the groundwater providing that the standards for each class of use are met. We cannot deny a permit simply because there will be a limited amount of degradation of the groundwater quality. In this case, at a point immediately down gradient from the property boundary, there will be a small degradation of the groundwater. Nitrates may be elevated to a level of less than 10 mg/l for some small distance on the next property to the south. Nitrates at a level of less than 10 mg/l are not considered to pose a risk to health. There should be no other degradation to the groundwater except possibly very minor increases in TDS and chloride.

COMMENT 36: Why did the WDOT run city water and sewer to the Lingle rest area, but they don't intend to at the Lusk rest area?

RESPONSE: The decision as to how to best provide public services has to be made based on total costs and benefits. There is no doubt that WDOT would itself always prefer to hook all of their facilities to both city sewer and water. From an operational viewpoint that is clearly the least trouble for them. Unfortunately, the distance to the nearest available line is a major factor in this decision since utility lines cost in exact proportion to the length of the sewer and water lines installed. In the case of Lingle, the distance was less, and therefore it was cost effective to install city utility hookups. In the case of Lusk it is not cost effective to provide city utilities. The DEQ has no mechanism to force a hookup that is not cost effective, but rather must look at each proposal on its own merits.

COMMENT 37: Any nitrates and nitrites that get through the leachfield will move downward until they encounter the water table, as they did at Monitoring Well #1 and to a lessor degree at MW #2. As stated at the meeting at Lusk, the direction of the water gradient (potentiometric surface) is to the south, onto our property. What are your intentions to remedy the nitrate damage done on our property as shown by the aforementioned monitoring well? What guarantee do you give that nitrate/nitrite plume will not reach our property from the proposed leachfield?

RESPONSE: Please see the response to Comment 34 and 35 above. In fact, the department believes that there has been no damage done to the property south of the present rest area. That is not to say that there is no elevation of Nitrate in the groundwater. State law allows for limited amounts of degradation to occur as long as the concentrations do not exceed the groundwater class of use standards.

COMMENT 38: How do you intend to resolve the issue of being over the total dissolved solids (salts) as shown in the same monitoring well? 500 mg/l is the upper limit for potable water.

RESPONSE: Again, the evidence shows that Monitor Well #1 has an elevated level of Total Dissolved Solids at 753 mg/l while Monitor Well #2, directly down gradient is down at 392 mg/l. For Total Dissolved Solids, the mechanism which operates is simple dilution within the groundwater itself. The department believes that there will be no Total Dissolved Solids levels which exceed the 500 mg/l standard at a point where the groundwater leaves the WDOT property. In response to this comment, the permit will be changed to require monitoring of Total Dissolved Solids in addition to those analysis already required.

COMMENT 39: Is the presence of manganese over the limit of 0.05 in 2 of the 3 wells a naturally occurring phenomena?

RESPONSE: Manganese is most probably a naturally occurring parameter in the matrix of the aquifer itself. It is most probably placed in solution in the immediate area of Monitor Well #2 because of slight changes in the pH of the groundwater caused by that injection. Such an affect should be very localized, and should cause no problem down gradient. Manganese at these levels is not a health risk, but rather an aesthetic standard based on the fact that it stains sinks and other fixtures, and is not particularly desirable in domestic use water. In response to your comment, we will add Manganese to the list of parameters to be monitored.

COMMENT 40: What is the quality of water from nearby wells, and what is the direction of groundwater movement (potentiometric surface) when you include these wells?

RESPONSE: General groundwater flow studies in the area indicate that regional flow is to the east with flow generally coming from the Hartville uplift to the west and flowing to the basin to the east. The department has no data on the quality of other water wells in the area, and does not need that information in order to properly classify the groundwater and administer this permit.

COMMENT 41: How does the water quality in the water well at the rest area compare to the water quality of the water well at the Country Club 1/4 mile northeast?

RESPONSE: The department has no information on the quality of the water from the Country Club well.

COMMENT 42: What types of rocks and minerals are present in the Arikaree Formation and how do they influence water quality in wells completed in this formation?

RESPONSE: According to the logs of the boreholes provided in the application, the sandstone bedrock is well sorted fine to very fine grained brown to light grey in color, slightly moist with rounded grains. The USGS describes the Arikaree Formation as Lower Miocene and Upper Oligocene soft porous sandstone and underlying white tufaceous claystone, sandstone and conglomerate. The matrix of such a formation can be expected to have very little affect on the groundwater quality, as is shown by the overall excellent quality of the groundwater in the area.

COMMENT 43: What is the underlying formation; what types of rocks and minerals are present; is that formation a better formation to complete a well in, and if not, does it play any part in the quality of the water in the Arikaree?

RESPONSE: There is very little information available about the formation below the Arikaree in regards to its quality as an aquifer. As seen from this application, there has never been a need to drill deeper than the Arikaree to obtain all of the water needed in the area. The formation immediately under the Arikaree should be the White River

Formation. In areas of the state where the White River is developed, it generally consists of arkosic and lithic sandstones interbedded with buff colored siltstones. The sandstone lenses in the White River tend to form very contiguous, discrete lenses which may yield excellent quantities and qualities of water at some specific points. Until someone drills and explores the White River in this area, there is no way to definitively answer your question.

COMMENT 44: What is the current effluent discharge rate on a daily, monthly, or annual basis?

RESPONSE: This department does not have specific information about the present day flows at this particular rest area. However, the WDOT did a study which was included in the permit application for similar areas state-wide. The present day usage can probably be expected to be somewhat similar to the flows experienced by the Diversion Dam rest area north of Riverton. That area is on a similar type of highway, with traffic flows which are probably similar to the Lusk area. Diversion Dam rest area used between 200 gallons per day up to a maximum of 800 gallons per day and used approximately 5 gallons per day per vehicle stopping. Average daily flow at the Diversion Dam rest area is 485 gallons per day. Annual flows are not available for rest areas, but can be expected to equal the average flow per day times 365 days, or 177,285 gallons per year. The Department of Environmental Quality is satisfied that the engineering design for this system provides for at least as much wastewater capacity as will ever be generated on this site. All studies done are based on discharge for the entire life of the project at a rate equal to the maximum engineering design capacity. In short there is a built in conservative nature to all the studies.

COMMENT 45: What is the current treatment to the discharged effluent, and how does that compare to future treatment of discharged effluent?

RESPONSE: Both the old system and the new system use the same treatment technology. The old system may be somewhat overloaded. If it is, then the new system, just because it is newer and larger, <u>may</u> provide somewhat better treatment, but the present day permit does not require that it provide any better treatment than the present system.

COMMENT 46: Does the rest area's domestic water well meet the National Primary Drinking Water Regulations? Does it meet National Secondary Drinking Water Regulations?

RESPONSE: EPA administers both of these programs in Wyoming. The DEQ does not necessarily have access to the information. This question was asked at the public meeting, and the WDOT representatives stated that it does.

COMMENT 47: How far (lateral distance) do you project that the above mentioned pollution has spread from the existing leachfield that has been in place since 1966?

RESPONSE: Exceedances around the existing leachfield appear to be limited to an area of less than 130 feet. An area down gradient will exist where certain contaminants are elevated above background concentrations but less than standards. Without detailed modeling, it is impossible to say with certainty how far this area of slightly increased pollution will exist. The department does not require that this area be quantified, only that information be submitted showing that a compliance point can be established where all standards will be met before the groundwater moves off the property owned by the applicant.

COMMENT 48: What are acceptable levels of Formaldehyde in a Class I aquifer according to the EPA? Your table does not say.

RESPONSE: EPA has not set a maximum contaminant limit for Formaldehyde. In any case, Formaldehyde was not detected in any of the monitor wells, including Monitor Well #1 which is completed very near the existing leachfield. Since there is no recreational vehicle dump station planned, Formaldehyde should not be an issue with this new permit.

COMMENT 49: On page 4 of the report by Maxim, they state that the injectate would travel a distance of 1,300 feet in all directions in 10 years. Since the rest area has been around for more than 30 years, can we assume that the injectate has traveled 3,900 feet?

RESPONSE: Page 4 of the Maxim report explains how the area of review was set. In this case, merely to be very conservative, the area of review was set as 1,300 feet in all directions. The area of review is the area for which the applicant is required to provide information. In fact, this applicant has provided information on water supply wells, springs and surface water bodies for a full mile in all directions. Reading on page 5 of the same report, one can see that using the most conservative calculation, one that completely neglects any dispersion effect, it has been calculated that at a point 1,210 feet down gradient from the leachfield that concentrations of .1 percent of the initial concentrations might be found. If the initial concentration of Nitrate as N were 35 mg/l which is typical of this type of discharge, then at a point 1,210 feet down gradient one could expect .035 mg/l of Nitrate as N. No increases in these concentrations are expected at all up gradient or side gradient from the leachfield. It is not reasonable to expect that there would be any affect whatsoever at a distance of 3900 feet from this leachfield.

COMMENT 50: The last paragraph of Maxim's report says "If the concentrations of any of the indicator parameters exceed WDEQ Class I groundwater standards, groundwater samples should be collected from all three monitoring wells and the water supply well... and be analyzed for the parameters listed in Table 4." What then? What kind of a solution is that? What is the final solution?

RESPONSE: Maxim is merely recommending that the WDOT look at the entire list of parameters analyzed if they ever exceed any groundwater standard down gradient from this leachfield. The department would not necessarily expect WDOT to analyze every parameter on Table 4 just because they exceeded the Nitrate standard in a single sample. If a groundwater standard violation occurs at the down gradient point of compliance, corrective actions will be required, but it is difficult to say exactly what will be required. If a compliance problem crops up, the department works with the permittee to eliminate the violation by making changes in the operation of the system, sometimes by changing the point of compliance slightly, or by requiring a complete change in the waste disposal technology. How we respond depends on how much of a compliance problem we have, how often it happens, and the health threat caused by the non-compliance.

COMMENT 51: This last item is of greatest concern. What is the source of Phenol? What do you intend to do about the presence of Phenol (Pentachlorophenol) in all three monitoring wells and on our land? The levels are 10 to 30 times the limit? As you know, this is a carcinogen.

RESPONSE: First and foremost, what was analyzed is not Pentachlorophenol. The actual test that was run is Total Phenolic Hydrocarbons using EPA Method 420.2 as shown on the Energy Laboratories analytical sheets shown in Appendix C of the Maxim report. This method chemically converts all phenol based hydrocarbons to a stable red-brown antipyrene dye. The result is then analyzed for Phenol using a spectro-photometer. This method can show the presence of various phenol based chemicals down to very low detection limits, but it is impossible to know which of several hundred phenolics are actually present. The standard we have is a taste and odor standard for Phenol itself. A test specific for phenol is available, but the limits of detection are quite a bit higher. Phenol is not classified as a human carcinogen, in fact Phenol is the main ingredient in many preparations made for chapped lips, cold sores, throat sprays etc. In that application Phenol functions as an anesthetic. A quick look at the labels for such products as Campho-phenic, Chloroseptic, and other similar products reveals that some of these products contain as much as 30% Phenol. Derivative compounds from phenol include compounds present in a bewildering variety of products. Nitrophenols are used as antiseptics. Chlorophenols are used as wood preservers and pesticides. Methanated and Ethanated phenols are present in household cleaners. Many other forms of derivative compounds exist with a wide variety of uses. All we presently know is that a low level of some form of phenol is present, as it almost always is in domestic wastewater. Most of these phenol derivative compounds should be biodegradable in the subsurface in much the same way that Nitrate is broken down. The department does not believe that the information submitted necessarily indicates that a groundwater standard violation exists for phenol.

In response to this concern, the draft permit will be modified to require that Phenol itself be analyzed in the monitor wells.

RFL/bb/00417.ltr

DISCLAIMER: This transcript was taken from a recording made at the hearing. These recordings are sometimes difficult to understand and pieces of them cannot be understood. This is our best attempt at providing you with an accounting of what was said.

LUSK REST AREA UIC 99-432 HEARING 1/19/00 LUSK

DOUG SELBY: I am Doug Selby the architect for the project and we have T.J. Burr and Arnie Gillis with M.K. Centennial Engineering and I think Keith Thompson might be here with Maximus, I don't know is he here yet? O.K.

DONNA RUFFING: I've had the opportunity in the last four or five years to work with the gentleman in the black shirt, he's wearing his white hat today and waving a white flag. We worked quite extensively on the impaired streams and this appeared in our paper as public notice. It really caught my eye because to me over 2,000 gallons of partially treated waste is a red flag, we need to pay attention and Gary and I have had our differences, he's driven me crazy on the way he explains things and I've driven him crazy by asking a ton of questions and being very set in my ways and knowing right and wrong. Right Gary? But one thing that Gary knows and has told us and it has always stuck in my mind, the solution to pollution is dilution and that's the whole concept and philosophy of this proposal and permit. My estimation is that they're saying that the dilution makes it ok to do it and it gets down to the river its not going to be a pollution problem to do that, in fact Gary I'll turn it over to you and you can introduce and do whatever you can do. And I believe the program is that you will make a presentation, there will be a period of time for comments, oh, questions and then comments, so if you have specific questions they might answer comments later on.

GARY BEACH: Thank you Donna. It's interesting to know that you do listen to some things I say but you shouldn't believe everything I say. It's a pleasure to be here usually we're not invited to Lusk, Donna would just as soon see government outside of Lusk, I think. But there is occasion when she does invite us to come up to Lusk and hold meetings. It's a privilege to be here. What I want to do tonight is turn the meeting over to Bob Lucht, who is our permitting coordinator for what is called the Underground Injection Control program. That's a big word but what it means is; permitting septic fields, leach fields, and let Bob go through and chair the meeting. I'm here to take notes and listen because after this meeting we have to make a conscious decision on issuing the permits. Obviously we want to do that in a matter that's fair to our sister agencies; the Highway Department, the Department of Transportation, and also is aware we give full consideration to public concerns with the proposal. But I'll let Bob go ahead and chair the meeting.

BOB LUCHT: O.K. as Donna said we'll start with just a little overview of the underground injection control program and the specific proposal that the Highway Department has made. Then we'll give you an opportunity to ask questions so that you can completely understand exactly what has been proposed. And then we'll go to the comment period after that. To start out with the Underground

Injection Control program is a federal program, it's also a State program. It was authorized in 1980 by the Safe Drinking Water Act and is specifically set up to protect what the federal government calls underground sources of drinking water. The Arikaree formation is in this case without a doubt an underground source of drinking water by both federal and state definitions. We have taken it on ourselves to promulgate a new chapter of regulations, Chapter 16 of the Water Quality Rules and Regulations went into effect last year on April the 14. Chapter 16 goes somewhat beyond what federal government requires on Class 5 injection facilities. Now as we use this term of Class 5 injection facility we're not talking about something that injects water under pressure necessarily, though some of them do. We're not talking about a facility that uses wells to inject, though some classified facilities do. What we're talking about is any facility that implaces fluid into the subsurface through any kind of a method any except for ponds and those kind of things that are regulated under other programs. But any kind of a system that is specifically designed to place fluids into the subsurface is required to get one form of permit or other under Chapter 16 of our rules. Now I've said it is a federal program and it is also a state program. The Wyoming State Department of Environmental Quality has what is called primacy under the federal program. What that means is that if this permit is issued it is both a federal and a state permit. The Highway Department does not have to go to the EPA or anyone else and get any further permits. The one permit is all they are required to have. We have defined in our rules any facility that discharges 2000 gallons per day of domestic waste water is a class 5 facility. Now it's one of probably 25 different types of systems that are required to get this permit. In Chapter 16 we set up three levels of permitting, the most stringent level is the individual permitting process, that is what we are in the middle of doing right now. Now under Chapter 16 and under any of the environmental regulations, an entity has a right to get a permit if they meet all of the requirements in order to get that permit. Now we have determined, in at least our mind, that the Highway Department has met the minimum requirements to get this type of a permit. When we make that decision, we go to the public notice procedures. Public notice means that we place an ad in the paper, it's usually a one time insertion and we set up a public notice period for 30 days. In this case the public notice period ended last December 3, I believe. In response to a lot of people who have asked for this hearing then we had to set up this hearing in order to hear what your concerns are concerning this particular permit. This hearing is also required to be public notice and that was done last December for 30 days. Then I'll go to a little explanation of exactly what the proposal is and we have over on the table over here a handout sheet that I would kinda like to talk from, if any of you don't have that handout sheet, in the other pile there is the handout sheet and this is the permit. You are welcome to take up to the limits of how many copies I made, I made 25 copies so you may have to share with the person next to you. If you look at this handout, the first page in the handout section shows exactly where this facility is just in case anyone is unclear on this we are talking about the rest area that is 3 miles outside of town on the same road we're on right now. The second thing you are going to find in the handout is a copy of this location map of the rest area itself. At this point I'm going to talk from this larger map that's on the easel. If you have a copy of the handout sheet you'll see the part of that big sheet is up here and has been marked on there. Basically we have the Highway Department right-of-way is marked here. The existing rest areas in that area, the existing leach field is right here. The proposed new leach field is over in this area and as part of this permitting process we require the Highway Department or any other applicant would have to go through a formalized groundwater study. They

have to show us how deep it is to groundwater and what direction the groundwater flows. In this case they drilled 3 monitor wells that are highlighted here in flourescent yellow. Now the regional studies of the Araucaria formation indicates that regional groundwater flows from the east and that's why they picked these wells on the east side. Unfortunately groundwater flows in whichever direction it wants to flow at the particular place where you measure. In this case what they found was groundwater flows due south right at this location. Regionally it flows to the east it probably will come out at the south and then around back to the regional flow. Right at this location it flowing due south. We also found a couple of interesting things when they did this study. One of the monitoring wells is right in a leach field and it's within ten feet of the edge of that existing leach field. That monitor well found that they had more than an allowable standard for nitrate at the present time. It's our believe that this new proposal for expanding the leach field will provide for more treatment than the existing leach field has done in the past. Part of our permitting process on the underground injection permits is that each one of them has to have what we call a point of compliance. And that point of compliance in the case of a large capacity leach field is a monitoring well that is directly downgrade in the point of discharge or we can monitor that aquifer until we're not causing a groundwater standard violation. In this case it goes directly downgrade south of that leach field. So as part of this permitting we require the Highway Department to drill another monitor well. Now it has to be on their property and it has to be downgrade. That's all we told them, they can drill it right down here by the property line if they want to or they can drill it close to the leach field if they want to. Obviously the closer to the leach field they get the more likely they'll have a problem meeting the standards. Now I have to take a little exception to one thing that got said and that's this type of system relies only on dilution. In fact, a septic tank is a form of treatment. Now what happens in these systems is that the septic tank will settle the solids and float the oils and it will deliver to the leach field clarified effluent. Now the reason that you have to that is if you deliver to the leach field all these solids and oils, then the leach field will plug up and cease to operate. But in the process of settling the solids and floating the oils, you will also remove quite a lot of the pollution that's in the waste. What will go back out of that septic tank to the leach field will contain 35 to 50 milligrams of ammonia, it will contain almost no nitrate, it will contain traces of other chemicals. And we pretty well know what kind of waste this will have in it when it's discharged to the leach field. Now the second part of treatment is the leach field itself, the leach field is not merely a passive system that delivers polluted water to groundwater directly. Leach field are in fact a biological treatment in and of themselves. The reason a leach field, one gentleman asked me before we started this meeting how deep this leach field is, the top of this leach field is only one foot below the surface and the bottom is only two feet below the surface. That is for a very definite reason and that is a leach field has got to work in what they call an aerobic atmosphere. In other words there has got to be some oxygen available in that leach field. Because the first thing that happens right in a field is, the ammonia is converted biologically to nitrate. And that happens in a properly operating system every time. Directly under the leach field, however, as you go two or three feet below the leach field that oxygen supply is diminished. And those bacteria that break down the ammonia and convert it to nitrate are starved for oxygen. When that happens, it is what we call an anoxite environment, there's no oxygen. Those bacteria still want to eat, they still want to break down the pollution that's in that waste. And they have to have oxygen and the way they get that oxygen is they take the oxygen off of the nitrate molecules. In effect destroying the same nitrate that

was created from the ammonia. Properly operating a septic system is not supposed to cause a ground waters standard's violation. Now what we are doing, that the federal government is not doing and most of other states are not doing. We're actually making a permittee go to the groundwater down radiate and prove he's not causing a standards violation. That in a nutshell is what the procedures are, the rest of the handout has to do with how they designed the system. You can see what the depth of the monitor wells that they drilled are the first of the next page of the handout. You can see a full blown analysis, they did an analysis for everything we have a standard for. On the next page there's monitor well 1, 2, and 3 on the location and they monitored every single one of these things. So you can see what they actually found in the groundwater at the present time. The next page goes into how they designed this system, how they came up with the 2230 per day that this system is actually designed for. I would like to point out one other thing this is a design capacity. We base all of our rules on design capacity. O.K. What the means is if you had a single family house, our rules says you have to design that for 150 gallons per day per bedroom. For example, so if you had a three bedroom house, you would have to design your septic system for 450 gallons per day. That's the most that house could possibly generate. If that three bedroom house is occupied by a single person that has no family, obviously that single person is not going to generate as much as the capacity of that system. We believe that is what is exactly going to happen in this case. Now the Highway Department in response to a request our department made last year, went through a very detailed study of rest areas. They went all over the state of Wyoming, they measured the traffic on the highway, they measured how much of the traffic went into the rest areas, and they measured how much water they were using that was ending up in the septic systems. And then they mediated this stuff.. And it was based on that study that they came up with this design of capacity. Now when they came up with the design capacity, the Highway Department does not want to go out and build this system today, have it fail two or three years ago because there's some kind of economic boom that comes into the town. And so, just as a matter of policy the Highway Department always provides for growth. In this case they provided for a 3% growth in this system every year for ten years. Now if you want to figure out mathematically what 3% for ten years is it just about doubles the capacity. In effect what they are telling us is that right now if they built this system about half of the design capacity is what would be actually discharged. At any rate they have designed this for 2230 gallons per day, which is barely over the required minimum before you have to have an underground injection control permit. You can go through and see how they met all of our standards, for example on the next page it talks about the size of the septic tank. In order to insure that a septic tank works properly, we have a requirement in our rules that it has 36 hours of retention time. Now if you figures this out, whatever the design capacity in gallons per day is multiple by 1 ½ and that tells you the minimum size of the septic tank. They have oversized these septic tanks. Their36 hour retention time peak requirement would be 1 tank of 3345 gallons, they have in fact designed this for 2 4000 gallon tanks. That over design of the septic tank should provide for a system that is longer lasting. That's all that's for. When you design a septic system then the design basis for the leach field is based on the percolation rate that actually measure on site. In this case they went out and they did some percolation tests and they followed exactly the way that our standards required them to do and they came up with the number of square feet of infiltration area. That's how they designed, they how they decided 7 trenches 104 feet long. But in this case this a special new technology that's come about in the last ten years. We're not talking about a leach field

that is a set of pipes and gravel. Their opting for what is called an infiltrator system, an infiltrator is about that wide and that wide and it's just a half circle of polyethylene plastic. You line these things up without gravel around the outside and rake the edge of the trench and you simply backfill it with the native soil. The point of an infiltrator system is supposed to infiltrate water to the subsurface more efficiently than the gravel and pipe system. We haven't found as a department that there's much of a problem with this new technology in fact, we have a policy how we count infiltrator systems and they've followed our policy exactly. And you can see the actual raw data on the perc test and how they calculated and you can follow their calculations for yourself if you want to. The last thing on the handout is this little diagram, this shows you how you find the leach field, how the septic tanks line up in elevation with the leach field themselves. So you can see how the whole thing was put together. Now the second thing we have as a handout is the permit itself. Now this is a draft permit, it has not been signed. Until it has been signed they cannot do anything with it at all. But when we go to a draft permit, it means we are willing to issue this permit the way it is written. We believe that this permit would be protective of the groundwater if we signed it today. And so, you can see the basic features of this permit. The first thing you'll see is that there is a discharge zone and the area review. We have made no bones about it we said it will discharge to the Arikaree formation. Every septic system in this area will discharge to the Arikaree formation. This formation is in the subsurface, it's 3 or 4 feet down. If you put septic systems in they will go the Arikaree. That's the way a system works. A lot of people have a lot a misconceptions about septic systems. There are a lot of people that think that septic systems are based on evaporation. The fact of the matter is that evaporation is not even a design of consideration. Septic systems are designed to percolate water down. And that's why when we write one of these UIC permits we simply identify which formation is directly under the leach field and that's what we say. It will discharge to the Arikaree formation. And I think a lot a people may have a misconception, maybe they thought we were going pump this water without treatment into the Arikaree. That is not true. We intend for this water to be treated before it reaches the Arikaree formation. Through the septic tank and leach field. But in fact, that water will end up in the Arikaree's formation as its final destination. Second thing you'll see is groundwater classification and in fact we have classified the Arikaree as a class one groundwater. That is actually our second highest class. There is one higher class of groundwater in that and that is fishery. You have a groundwater that is suitable to pump out and raise fish in and that is a very stringent standard, you almost never see groundwater that is that clean. For domestic use class one groundwater is the classification. You can see what they are actually authorized to do and that is to discharge 2230 gallons per day as waste water from this highway rest area. You'll also see on the next page, page 5 of the permit, a recitation of what they are going to be required to monitor for. They are required to monitor this month, 4th monitor well we required on a quarterly basis and they are going to have to monitor that well for ammonia, nitrate, and total coliform. And they must at that point of compliance meet our class one groundwater standards, which is ½ milligram per liter of ammonia, 10 milligrams of nitrate, and no more than one colony per 100 milliliters of coliform bacterium. You'll also see on page 5 that they are required to monitor quarterly the effluent, the actual water in the septic tank. On a quarterly basis in this case they are going to have to monitor for total phenols, nitrate, and ammonia. I wrote this, it says 2.5 per phenols and 15 milligrams for nitrate. I see I have three on the ammonia and that's obviously a typographical error I didn't realize I had it that way, it should say something more like 50 for ammonia in the

septic tank. Because there will be ammonia in a septic tank there's no question about that. Then the rest of it is a lot of boiler type language that is required by the federal government. It talks about the general permit conditions, the duties of the permittee, the signatory requirements. There is a special measure that we all put on septic tank permits, that is if any leach field covered by this permit should fail, and define failure for a leach field that the sewage coming to the surface. When sewage comes to the surface in a leach field it indicates the leach field is plugging up and the system is failing. If that happens they have to replace it immediately. So at this point I would like to open it up for questions, if there are specific questions that you have about what I've said or process we're going through or anything. If you would please come up and speak into the microphone. Tell us your name to start out with so we can put it down in the record.

TERRY ALLERYD: Your presentation was really good and I must say I haven't ever seen a septic system this elaborate. But the city has some concerns, like a R.V. dump and I don't see that. We are opposed to that.

BOB LUCHT: There is right now a R.V. dump out there.

TERRY ALLERYD: It's been closed.

BOB LUCHT: According to this proposal they have proposed to replace it.

TERRY ALLERYD: We were under the impression there was, that's mainly why I'm here. But there isn't, correct?

BOB LUCHT: Well as I understand it, no, the R.V.dumps being taken out and this .....

Man: That's correct, there will be no R.V. dump at this facility.

BOB LUCHT: When you do have R.V. dumps we require a significantly increased monitoring of them, but this one doesn't have that in the proposal.

TERRY ALLERYD: That's really all we had.

Woman: If there's one to be put in does that change the permitting of this or will they need to get a different permit five years down the road.

BOB LUCHT: Five years down the road they decide to put a R.V. dump in that will be a major change in this permit. We would have to modify the permit and we would have to go through the whole public notice period again. They would have to show us why that would be protectively....

TERRY ALLERYD: That's really all I had.

HEIDI STEARNS: I guess my other question would be, if somebody that is downgrading from this leach field ends up having problems with their drinking water what is their recourse and what sort of action would be taken at that point?

BOB LUCHT: Well if someone downgrading has a problem with their drinking water, first of all, we would already know it before they did. I mean that's the theory. This monitoring well is on their property should show us before it ever becomes a problem. Now if someone has a problem with their drinking water well, and I understand some of you are here because you may have already experienced some problems with drinking water wells. We'd be happy to work with you on those kind of concerns. I mean when you have a problem with a well it doesn't necessarily mean it's from them.

HEIDI STEARNS: No but if it's one that has been clean and fine, then something shows up later on that hasn't been there, that's my question.

GARY BEACH: If you have a problem with your well, you have a right to file what we call a citizens complaint. And we will do an investigation to see if we can decipher what is the source of the pollution. If we find that there is someone violating a standard, as Bob pointed out to you, we would take an action to correct that source. You may still have a damaged well at that point. Somehow we would have to contend with replacing that water and many times it means drilling a deeper well. That's what you end up doing. But those rights are there.

BOB LUCHT: Is there any other questions about the proposal? Does everyone understand exactly what has been proposed?

GARY BEACH: You might let the DOT, if there is anything they want to add to the presentation for clarification. Or did we do a good job of presenting?

DONNA RUFFING: I do have several questions. Has the monitor, the replacement monitor for well 2 has not been accomplished yet? They have not drilled. Does that have to be done before the permit is issued?

BOB LUCHT: No, that would be done as part of the construction of the leach field. We would require that put that in monitoring when they build this other leach field.

DONNA RUFFING Isn't it true that all three monitor wells failed the fetal analysis? It's indicated on .....

BOB LUCHT: Phenol is kind an interesting thing.

DONNA RUFFING: But it was detected in all three monitoring wells, right?

BOB LUCHT: That's true, it was. Phenol is an interesting problem and analyzed for, in almost

every case people are using what is called total phenolic hydrocarbons analyzed for phenol. Total phenolic hydrocarbons is not exactly a proxy for phenol itself. In fact, phenol is a chemical building block that is present in thousands and thousands of products. What they do in chemically analyzing for total phenolic is strip off all of the other chemical additives on that molecule and then they analyze what is left and report it as total phenolics. Our standard is for phenol itself. Our standard for phenol is .001 milligrams per liter. Now we have an interesting problem. You can not analyze for phenol itself to .001. Now the total phenolics hydrocarbons analysis does have detection limit that low. So we have this interesting problem we can tell there is something down there but we can't tell you exactly what it is. There is .001 milligrams per liter in well number three of total phenolics, but we don't know whether that is present is any number of derivative compounds. Phenol itself is not particularly toxic. Phenol is actually edible to some degree. In fact, many of you buy things such as camphofanique to put on cold sores that's about 30% phenol. The standard we have for phenol in groundwater is a taste and odor stand and it is, you can't taste it to that level.

DONNA RUFFING: The reason I ask, Bob, is because on page 4 of Maxim's report they found that it was significant to put it into the report.

BOB LUCHT: Yes, it's present. Present at or near the detection limit for total phenol. What's interesting is there's another analysis for, specifically for phenol, if you did that analysis it would be non detectable because that other analysis has a detection limit of about anywhere about 25 - 50 micrograms of .05 milligrams.

DONNA RUFFING: My next question is, oh, someone else has one.

MAN: What's the EPA's maximum contaminate load of phenol?

BOB LUCHT: The EPA has never set a limit on drinking water for phenol. I have talked to their toxicologist on many occasions and they tell me it would be a low priority for them to limit phenol in public drinking water supplies. But if they did set a limit their telling me they would probably set that limit somewhere around 6 milligrams per liter. It's not a very toxic chemical whatsoever.

DONNA RUFFING In the permit it says that the sampling will be quarterly and in case Centennial's document on page 4 says it will be annually. Which is it?

BOB LUCHT: It will be quarterly. We allow people to apply, they can say anything they want in the application and then we tell them what their going to do in the permit. If they don't like what we put in the permit they're free to during this public notice procedure to come back and say no we won't permit to do this quarterly but in talking about it in the department they don't have a problem with doing this stuff quarterly

DONNA RUFFING: I know that in the permit it says after 2 years you can waive further monitoring or you can modify the monitoring schedule. Will we be notified if and when you do that?

BOB LUCHT: Not necessarily. We put this language into these permits and the reason we set it into the permits is that a lot of things we don't know on specific facilities what we will find once they go into operation. And in a lot of cases, we've had cases in the past that people have been on quarterly monitoring schedules and pretty soon 15 years goes by and you see 60 analyses for something that's never been detected. So we set that language into these permits so to give ourselves a little bit of flexibility. Now in my view there are certain things that are not going to go away. You're not going to eliminate the ammonia and nitrate in the monitoring wells. Now, we've also said they have to monitor septic systems, the septic tank itself. The reason for that monitoring is just to see to it that effluent that is in that septic system is pretty much standard normal domestic waste. If we go two years and after quarterly analysis for two year and we see that septic system has about the same thing every other septic system has in it and we're not seeing a gravel or standard violation in the monitor well we've simply given ourselves the flexibility to write a letter to them and say I think we've seen enough of your analysis in that septic tank we can drop that. But, the primary control is on the monitoring well downgrading. On the other hand, if we asked them to monitor the septic tank and we know the septic tank have anywhere from 35 to 50 milligrams of ammonia, in fact I've seen a few of them as high as 200 milligrams of ammonia. If we were to come back two years from now and say you've got 1000 milligrams of ammonia in there, something wrong. Well, we'd the authority to out modify that permit and go back require them to do more analysis. That's the only reason that language is in the permit.

DONNA RUFFING: On the nitrate levels, the high nitrate levels on the monitoring well on the one, Centennial expects that to drop to less than 10 milligrams per liter, Shortly after the new system is put into use. What happens if it doesn't?

BOB LUCHT: Well, if is doesn't something is going to be a problem because reason this high nitrate level is .....

DONNA RUFFING: You think it's because it's by that leach field, but what if it doesn't drop? What are you going to do?

MAN: How much time are you going to give that? If you make it two days after you put it in, certainly it won't be showing up and come back ten or fifteen years from now what'll you have, you think?

BOB LUCHT: I think this is a good illustration just exactly what we're talking about when we talk about the treatment systems. We have standard violation right at this existing leach field, but there's no standard violation downgrade, which is what about 150 feet downgrade on monitor well number two. When they moved this leach field quite away from that monitor well they found the problem. They continued to monitor that well and if it does not drop then there is obviously a standard violation. We would have to respond to that at some point.

DONNA RUFFING: Is it coming from there or coming from somewhere else?

BOB LUCHT: That's a good question.

DONNA RUFFING Is it coming across the highway?

BOB LUCHT: I think it's coming from this leach field, it possible it could be coming from somewhere else. I'm inclined think it's not coming from someplace else because why is this other monitor wells too. Obviously, we might have to have to respond to that concern.

MAN: Bob, I will say the city has a drinking water well about 3/4 miles northeast of this well monitor well number one, our nitrates every year are about 3 ½ to 4 parts per million.

BOB LUCHT: So northeast of this is definitely upgraded from groundwater flows.

DONNA RUFFING: Which one is that? What's preventing it Do you know?

MAN: Our well?

DONNA RUFFING: Yah. You got the one at the golf course. Then you have another one or is that it?

MAN: There's one by the Balloon Center, Donna.

DONNA RUFFING: Oh, it's way north.

MAN: Yah.

DONNA RUFFING: Oh, o.k.

MAN 2: Could you repeat those numbers of nitrates that the city had.

MAN: Last year they were between 3.5 and almost 4. That wells eight feet deep, so it's relatively shallow.

BOB LUCHT: O.K. you wanted to make a comment if you would please come up to the microphone.

GENE LENZ: I was just wondering what is the relationship of the distance from the leach field to the well versus the sewers or whatever it is percolating directly down into the soil, would it be possible for the monitoring well to pick it up that way.

BOB LUCHT: Well, it's actually, I think if you look at this handout you'll see how deep these monitoring wells are. The existing monitoring wells are anywhere from 36 to 50 feet deep. And the groundwater is 27 to 35 feet deep. In those existing wells. We're talking about well that would be

drilled back in this area it would penetrate the top of the aquifer, that's all we're asking you to do is penetrate the top of the aquifer. That should be the most, the part of the aquifer that's most likely to have any kind of an impact at all.

BOB LUCHT: Donna, do you have anymore comments?

DONNA RUFFING: I'm looking through. This is a 10 year permit that will be reviewed in five years, is that right?

BOB LUCHT: Our rules require that we do what's called a review of the permit in five years, that's true. We simply require that every permit runs for 10 years and then it has to be renewed after five years we have to review it. All that means is that I have to go through look at the permit, look at the monitoring it's doing or is being done under that permit and make some kind of statement that it's actually doing what it's suppose to do.

DONNA RUFFING: Are those the permits we're putting on the 303D list for review?

BOB LUCHT: No.

DONNA RUFFING: Are they the 10 years ones?

GARY BEACH: The ones on the 303D list are for surface water discharges, those are 5 years permits. This is a groundwater permit.

BOB LUCHT: Every permitting program is a little bit different structure and that's just the way UIC permits.

GARY BEACH: The five year review, Bob, do we publish our findings of that review? Is that in the rules?

BOB LUCHT: I would have to check that, I don't remember. For general permits, and this is not a general permit, but for general permits we specifically said that every five years we would go to public notice showing both facilities were covered by a general permit. I don't believe we have to go to public notice every five years on individual permits we simply review them internally and that's all that is. Now if we find a problem with a permit under these rules we have to take some action after five years.

GARY BEACH: What happens if they have their monitor well in and during one of their quarterly monitorings find an Exceedance of the standards, what, do they have to report that?

BOB LUCHT: If there's an exceedance of the standards, they do have to report that and it there is a procedure written under the permit. In some cases they have to follow up with a confirmation, sampling, quite a lot of rigamarole we have to through when there's a violation of the permit. On most violations that I've dealt with are things that they exceed on one month or one quarter and then

they go back and check it again and they find out there was some kind of analytical problem or some other kind of thing like that. The following quarter come along they analyze it again and find it's back in compliance. When we get one that is out of compliance for two or three quarters in a row we start looking for some changes in the operation to eliminate that groundwater standard violation. It's actually in the permits best interest to get this point of compliance as far away from that leach field as you can for obvious reasons. These subsurface treatment systems like this require some space and time to actually create the right kind of conditions to break that nitrate down. In my experience if we do find a problem with a system like this it's most likely to be a nitrate problem. That seems to be the one thing I see more often than anything else.

HOLLI HOLLOW: I don't think I remember hearing you say this, the monitoring well, the number 4, what is the depth of it going to be?

BOB LUCHT: If they go right where their boundary line is, that's right in front of that big hill, it will probably be a lot deeper than the existing ones, because you can see that hill goes up about 25 or 30 feet. It's a problem, I mean depending on if they want to put one that's only 45 feet deep, they can probably build one but they'd have to go pretty close to the leach field. That it has its own drawbacks under this system.

MAN: Our these wells cased, these monitoring wells are they cased or open?

BOB LUCHT: The typical monitoring well is a small diameter well. It may be 2" or 4". Case of polythene plastic or PVC plastic. I think, I don't know if I made copies of it, there's in the permit actually a diagram how there done. They're simply small diameter wells that you take a sample out of. In most cases, all we do to sample a well like that is take a bailer and bale out enough water so we know we're getting water from the aquifer, that's all there is to it.

MAN: My questions is I'm wondering if the water would hit the plastic where the casing angle percolates down along beside it and get into the well where you're doing monitoring, I just don't know how that works, maybe it's an ignorant question.

BOB LUCHT: The monitoring well is designed to preclude that from happening. Before you take a sample out of a well, the proper sampling procedure is to remove 3 casing . The first thing you do when you monitor a well is measure how deep the water is and how deep the well is so you can calculate how much water is actually inside the well. Then you remove 3 times as much water before you take the sample. And that is entirely set up to ensure that water that you sample is actually indicative of the water in, groundwater adjacent to the well.

MAN: Certainly in doing that you're going to be drawing in a radius outward in all directions from that well.

BOB LUCHT: Well, not very far. 3 casing volumes...

MAN: You'd agree it wouldn't be or have any particular orientation to it, it'd be....

BOB LUCHT: You're talking about the water is within 6 inches of the well. The only purpose of purging the well three casings volumes is to insure that the water you sample and analyze is actually the water that's in the formation adjacent to the well

MAN: I have a question is it in direct line from where you're supposedly injecting?

BOB LUCHT: That's what we said in the permit they have to go directly downgrade from the well. The grading direction is well pumped I don't know exactly which way it's flowing.

MAN: Also,it this purification system you have cleans it up good enough to put it into our aquifers, is it good enough to rerun right back through the outfit? So you can drink it. If it isn't I don't think it should be done. You know that's what I'm saying.

BOB LUCHT: That's what's the whole point of this permitting process is.

MAN: Yah, but we're depending on you guys to insure it's all monitored and taken care of.

BOB LUCHT: Someone needs to go out at this point and build a house and build their own water well our permitting process is supposed to provide they can drill a monitor well somewhere outside the trust area for drinking water and not have adverse effects from the water.

MAN: I don't know whether I missed something or not but it looks like the water flows east; how is it you discern or determine it's going south from this speed.

BOB LUCHT: Well, when they drilled these three wells they surveyed the possible wells and measured the depth of the water. So in effect we know exactly what the elevation of the water is in these three different points. Now water in the subsurface behaves pretty much like water in the surface that flows downhill. In this case it flows down Down the elevation. In this case it's kind of interesting cause it's a great big hill and it's flowing toward that hill. In the subsurface the pressure is toward that hill. That's how we know it's flowing that direction. Really the only way you can determine which way your water flows.

DONNA RUFFING: May I ask one of my constituents a question? Which one of these water wells did you tell me was contaminated?

GARY BEACH: Does anyone else have any question?

HAL OWEN: My question would be: so you've measured the potential metric surface of the water and you know it's sound. Does that mean that the, if there's a problem with the effluent from discharge coming off of this leach field if there's a problem that problem will be to the south?

BOB LUCHT: That's what we believe, yes, it will be to the south.

HAL OWEN: Do you have any idea, why the metric surface seems to be to the south?

BOB LUCHT: Let me explain something. I've been a geologist for 30 years, I've studied this type of formation all over Wyoming and this kind of formations were laid down by streams. Arikaree is a fluvial formation just like the alluvial Aquifer by the river is a fluvial formation. What that means is the groundwater is flowing through a whole group of channels. There are channel sands, there are shales, and so why you may have a gradient regionally that's in one direction. That regional gradient is made up of little meanderings and water flowing in virtually every direction. And what you won't find very often, you won't find water flowing in the opposite direction from a regional flow. But you will see it flowing in anything up to 90 degrees on either side of the regional flow because it simply following the way the formation was laid down geologically.

HAL OWEN: What is the dip direction of the Arikaree formation?

BOB LUCHT: I'm not 100% sure about that, but since we're on the north side of the hartsville uplift I would assume that the direction is to the north.

HAL OWEN: I can show you this map

MAN: We use to have a geologist in Lusk by the name of Cy Stafford who passed away about 10 years ago. And I see Richard James is here, I know he drilled a water well out south of town. In talking to former well drillers they always said the water on hartsville uplift high buttes here trickles like veins into your arteries and so Cy Stafford always took his hand and laid it out on a piece of paper and take and draw right around his fingers and said this would be a form the water came in here from the west through here, if you would take and drill a hole where your finger was it would be dropping but up in here it would be a good well. Now my understanding is a flow from the south but the other thing Stafford always said was when you get to the Niobrara Sioux County line, the Nebraska line, the Arikaree formation is 750 deep and it goes all the way to Heningburg, Nebraska but its so water saturated groundwater, so the question comes to my mind if you have little river flow to the south and this is saturated water like this and you do have these little veins in here, it seems to me like three wells wouldn't do it you may need 50 wells really find out what's going on. That's just an uneducated guess, but that goes through my mind.
BOB LUCHT: Well, I think that is probably a very accurate summation of the way that groundwater does flow through this type of formation, it does flow just like the veins in your hand, wherever they happen to go. The fact of the matter is, we have to be somewhat practical, we can't very well require 50 wells because it might be a little different. If you drilled enough wells in here you might find that the water right on this one location travels around like this. But for purposes of this permit, the flow is to the south and I think when we drilled that fourth well it will confirm that it is downgrade. That's basically all we really need to know, is that we have a point of compliance that is in fact down gradient on the point of discharge.

MAN: Question follow up on that other idea on the Arikaree. What's the thickness of the Arikaree at this location?

BOB LUCHT: You know I don't know exactly how thick the Arikaree is, it's a pretty thick formation. I mean, several hundred feet thick, as I understand it.

MAN: We're two miles north of the two wells that almost 500 feet of the Arikaree.

BOB LUCHT: Right. I mean the Arikaree is also part of the same high plains aquifer that you hear people talk about. You know in Cheyenne we call it the Ogallala formation. If you go down to Cheyenne the Ogallala formation which is just a different geologic name for the same exact formation. I mean you drill 2200 feet I believe and still be in that formation if you ever come out of it.

MAN: Have you looked at any local faulting and fracturing and so on, any fracture patterns that might parallel hartville uplift? As I see it we're on the northeast side of the hartville uplift. I would think our gradient is, the dip angle would be to the east maybe slightly southeast.

BOB LUCHT: Well, maybe. I don't know.

MAN: Is it fractures, this map shows a fairly major fault line that runs probably 70 or 80 miles northsouth about a mile or so west of the rest area. Are there, is there any additional parallel faulting pairs that run.

BOB LUCHT: I really don't know that.

MAN: And if they existed would that account for why you're finding the surface is to the south?

BOB LUCHT: Certainly if there is a lot of fracturing in an area, it can affect which way the groundwater flows right near one of those faults. In my experience these fluvial formations don't, when they do fault they tend to just form a little higher level of permeability along the faults. In most cases they tend to just bend plastically along till there's a major fault somewhere.

MAN: On page 3 of the geological report that Maxim did it describes some of the site specific It says the average thickness is 160 feet at this site, that's their estimate. It also talks about no fracturing... Rest area site. Answers a couple of questions.

BOB LUCHT: We need to take comments now. Are there any additional comments you want to make.

DONNA RUFFING: I think that Dale left but he is coming back and I know specifically that he has a contamination problem at the location of permit 11568 that needs to be Utility , I don't know what needs to be done and I shouldn't speak for him but I do know that the DOT did pay for modification and maybe that's when they closed the RV dump. Dales had to haul drinking water the last 3 years or more. Whether it's coming from the rest area or from some other septic system or from his own septic system I don't know. But I think it's an issue that needs to be dealt with. To me it appears that DOT plans are really going to be beneficial to our area and I don't want to cause undue hardship and to continue with our construction plans. But I do think that we need to be concerned about what's happening, I'm also going to put Bob on the line because when I first called him, he told me that, he tried to talk me out of a public hearing. And when I spoke to him today he said it really doesn't make any difference what happens at this meeting, the permits going to be used. And I said to him, Bob your talking to the wrong person because if that is the case there's no point in having the public hearing.

BOB LUCHT: I think what I was trying to say to you is that if you wanted to block this permit that you want to stop this progress you have to give us a legal grounds for stopping it. Now that's all I was trying to say. We are required to issue this permit unless someone can show us a legal grounds for not issuing the permit, that's really what it boils down to.

GARY BEACH: Let's not prejudge the decision, because no decision has been made yet.

DONNA RUFFING: That's what I was told Gary and you know how my blood pressure goes up.

GARY BEACH: Right he caught the right nerves to bring your blood pressure up.

WOMAN: So when is the issue date for this permit?

GARY BEACH: What we need to hear tonight is what are your concerns for this permit? So if we issue it we are comfortable we've attempted to address your concerns. That's what's important tonight that we leave with that understanding.

WOMAN: I guess my concern is that we have four wells that are within where property adjoining the rest area on all sides of it.

GARY BEACH: All the way around it?

WOMAN: Yes. And we have four wells that are all within the depth of 42, 49 feet that are all in that area. I guess when we talk about the Arikaree formation, I guess it concerns me, the groundwater. And possible contamination. I don't have the numbers with me.

DONNA RUFFING: 2076, 2073.

WOMAN: We have two directly to the south and we have two that are south and east.

BOB LUCH: All I can tell you about these existing problems is if is problem that has been monitored for a domestic used well needs to contact the department and make a complaint and it will be investigated at that point.

MAN: Contact who?

GARY BEACH: Contact, you can write a letter to myself, I'll give you a card afterwards. I prefer that the property owner make a complaint because I know when we leave here today someone will say, so and so over here has a problem because he unconsciously decided that you wanted go down that road and register a complaint and obviously we'll investigate it. So as I understand it you live around the east and south part of this property.

WOMAN: Well, I don't live there it's my Mom's property.

GARY BEACH: And your concerned obviously then with the.... And the monitor well.

WOMAN: Right.

BOB LUCHT: I've drawn up a lot of septic system permits that have Problems and I've never seen one no matter how large it is that has caused a problem that far away Discharge. I've dealt with ones that discharge 20 to 40 thousand gallons per day and they usually cause a problem within, let's say, no more than 5 or 600 feet away.

DOUG SELBY: Now let me ask you something. It doesn't show on here, the 4 wells you're talking about how far apart away from the property, half mile, quarter mile?

BOB LUCHT: Well, I didn't make a copy of this one, three out the report. What he's talking about B2076,B2074, B2073, you can see there a half mile away. The closest monitor is half a mile away. Are there any other comments?

DOUG SELBY: I've got a whole wrap up, but why don't you take her next.

VERA BREDTHAUER:: Would it be possible to run the sewage through the city sewage line since it's almost out there anyway?

GARY BEACH: Your name Madam?

VERA BREDTHAUER: Vera Bredthauer

GARY BEACH: Bredthauer?

VERA BREDTHAUER: My land runs up along Highway 20 between the NEA and Mumby's(sp).

BOB LUCHT: Certainly the highway department refers to send your sewage to municipal treatment systems if at all possible. They did do a economic evaluation and its along way from your sewer line. It would cost twice as much to replace a sewer line that far out.

DOUG SELBY: So what I was .....

DONNA RUFFING: Had to go the fair grounds, is that the closest one?

BOB LUCHT: ....about two miles. That's 11,000 feet at Dollars per mile.

DOUG SELBY: A mile and a quarter is reasonable. What are the costs on what your project is and how it compares to what it would cost running a sewer line?

T.J. BURR: I might be able to answer that if I can find the numbers here. We did evaluate that, my names T.J. Burr, I'm with M.K. Centennial, that's my wonderful drawing you're looking at. I don't know if I have the exact numbers because I didn't think that would come up. But we did look at three options. The three options we looked at were: replacing the septic system, which was the most economical and most practical, the other option was pumping waste water with a pump system clear to the city limits, which is a manhole that's pretty close to here, it's actually about 1.4 miles. The

other option which was not, wouldn't really work, was trying gravity flow but due to the elevation there's a dip in the .....between here and there and you can't' gravity flow it to the city unfortunately without some kind of pump system. So as we introduce a pump system it costs start going way through the ceiling, we're all tax payers here and ultimately its tax dollars that pay for those systems. But the, if it would have been just a small cost difference, I think we would have, the highway department probably would have looked at a pump system more serious. And we are, another rest area we're working on near Lingle, we are going recommend they pump to the city, but there we're only talking about 1100 feet. That's quite a big difference in this case.

DOUG SELBY: So, what are your costs for this proposed project?

T.J. BURR: The entire project?

DOUG SELBY: What is this project going to cost? What are you going to outlay to do this project?

T.J. BURR: The rest area and everything? 1.3 million dollars.

DOUG SELBY: 1.3 million dollars. But, you think it's going to cost twice that amount to run a sewer line 1.4 miles?

BOB LUCHT: No, I think that's overestimated that.

T.J. BURR: Not twice the total construction. Twice the system cost for the septic, in fact, it was over twice. Seems to me like we were....somewhere around 300,000 for a pumping and piping system as where this we're looking at 50 - 60 thousand for this system. There's no comparison in the difference between the two costs.

DOUG SELBY: You know I misphrased my question, let me try this again. Bear with me. What are your cost to take care of, you know, you're talking about a new drain field, you're talking about another monitor well, and I'm not sure what else you're talking about but your, whatever techniques your going to use to handle the wastewater, what are those costs? I know you're also talking about redoing the rest area itself and the facilities and all?

T.J. BURR: It's going to be a complete reconstruction of the rest area, play ground equipment and everything.

MAN: Why, is insufficient to take care of the traffic now? Why are you doing that? Beings we're all tax payers.....

MAN: It's the highway department.

DOUG SELBY: Now that number again for the whole thing is how much, 1.6 million, 1.3 million and then how much to just handle the sewage and the drain field.

MAN: T.J., what he is wanting know is what is the cost of the septic system itself.

T.J. BURR: I believe the septic system, we did the whole project as one bid, so I cant' really tell you what the contractor bid for that part. The estimate was about 45,000 dollars. For the septic tanks, the pipe going to the septic tanks and the absorbence field. Since it was all bid as one complete project, I don't have a breakdown.

MAN:: As comparative costs your asking the difference between the infiltrator septic system and the difference for the cost piping system all the way to the city to pump the sewage to the city was close to 300,000 dollars, so the difference was between that and 47,000 or something like that Now a monitor well has been brought up, yes there are costs, but we had to drill those anyway to meet their requirements so that cost is already spent.

DOUG SELBY: But you agree you wouldn't have to drill those if you were, if you had another system to just get rid of your sewage water.

MAN: They're already drilled. Except the new one. The one additional well is under $1,000. It's not a lot.....

DOUG SELBY: I guess my point is .....

MAN: Can I make one comment, if you pump the sewage it requires a special class of operator permit which probably far outweigh the cost of monitoring the wells and all the stuff. The department is trying to get away from some of the higher classes of operator permits, because it is so costly to the department. It's hard to find people who are able to do that.

DOUG SELBY: Let me try to put this in another perspective. If you were willing to lay out, I don't know what the numbers are, 50-100,000 whatever this figure comes to. If the cost of doing the project out with the sewer line is 200,000, just to grab a number, the amount you're talking about spending is about half the cost. If that amount of money was contributed toward the cost of completion, the rest perhaps picked up by other people who could potentially could utilize that along that pathway and I know there have been names of organizations and individuals been mentioned earlier. Would that be a system that could work?

GARY BEACH: Why don't you guys think about that and we'll go along with issues that we need to address here and at the end of the meeting we can go back to this question. The question being asked could we reconsider an alternative, is what I'm hearing.

T.J. BURR: I don't want anyone to think we're brushing that aside. That is an option that has been done in other areas of the state. I mean that is not something that is new. That was considered here as part of running all the way in because people later can tap on. But, you still have a huge difference in cost up-front to make that work and I think that the way the state law works, and you guys correct me if I'm wrong, you can only recoup your costs within five or ten years on tap ons, and if you tap on later you can't require them to pay any costs or recoup on that. I know that was the situation up at Pinedale when we had that, there was a five year window and then the state was just out the money, they couldn't recoup any of that later.

DOUG SELBY: When you considered that issue, did you talk to those perspective individuals who

might tap into that line then? Did you get their input as to whether this was something they thought might benefit them or they'd want to go along with?

LARRY LIJEWSKI: Let me clarify something if I can. Larry Lijewski of the transportation department. Our original investigation was a line that would handle the rest area only, no other taps, just the rest area. Those costs are right around $300,000 to do that alone. In order for there to be additional taps on that line, that line would have to be upside from .....and the larger the line, the greater the costs. So that's something to consider with reference to the question asked, did we ask any other land owners are they going to tap. We didn't go to that depth, we're looking at the rest area only in that investigation.

T.J. BURR: I might add that the original, when the highway department first came to us, the intention to connect to city water and sewer, that's what the preferred option would have been. But the cost were a little astronomical.

JACK BELL: The other factor that were investing here is, we're sure that the tow of Lusk wanted us to tie into their sewer, in fact, I asked that question to the Mayor and City Council and I also proposed exactly what you're talking about the size of the line and allowance of future growth and tap potential there was some thought about development going in kinda across from the rest area to the east. I had proposed that we build it and give it over to the city and then take over the maintenance of it. But it was very lukewarm reception and one of the big problems of, said definitely no trailer dump, but we we're going to propose to put the trailer dump back in, but there were really not very enthusiastic about accepting the sewage from the rest area, so, that was another thing we looked at that didn't look like an optimistic solution.

MAN: I'm having a hard time with reasoning or rationalizing 300,000 versus a health situation or a possible health situation. I don't know how you figure those there figures, if you stop and take out a .....I don't know how you figure that.

JACK BELL: Well, I think where we're at, what the highway department is proposing ...the department of transportation, keep thinking I'm going to get a hold of them, but is that the cost has driven them to apply for a leach field. We'll have to consider that leach field is their primary option and our job is to insure that if we permit it we've done it in a matter that we're sure we're protecting the adjacent water and public health around that leach field. I certainly don't want to discourage the consideration of hooking these to a centralized system because that is the preferred option, I mean, more and more, we're finding in Wyoming that suburbs grow and we get leach fields all over outside of towns, before you know it people are drinking their waste. That's what happening in Wyoming. But, we also realize the cost of hooking these suburban areas to urban areas and the burden that puts on a community. So, it's not our job to weight that, it's our job to, if this leach fields going to go forward, to insure that it's done environmentally sound.

GARY BEACH: Any other issues we need to bring up?

CLAUDE SMITH: I guess is their any fear of contaminates being to added to the septic system? This type thing, dumping in radioactive chemicals or.....

BOB LUCHT: The only way they could do that in this design now is to haul it in 5 gallon buckets into the public restroom and dump it down the toilets.

CLAUDE SMITH: You don't, the lids that you're building are such that it would be difficult to get to?

BOB LUCHT: Well there are man ways just like there are in other sewer systems. There are manholes that could be secretly opened. We're talking about something that would be a violation of water if it did happen and it would have to happen right out in front of everyone.

CLAUDE SMITH: Are they covered ....or no tops, you feel there's no problem with that?

BOB LUCHT: My own personal opinion, someone wants to dump something illegal, they'd go out in the sand hills where no one could catch them. I wouldn't go to the rest areas. That's just my opinion.

T.J. BURR: I would like to add a comment to that, we're also going to add, yeh, the new lighting plant is going to improve the lighting and overall security of the area, so I agree with what Bob's saying. If you were really out to contaminate something you could probably do it in any city in America.

JACK BELL: I might also add if you remember about a year and half ago or so our director proposed closing all the trailer dumps for exactly the reason your talking about. Someone backing up, flipping the lid, emptying the truck with whatever. We have taken out several until the public rules out, we've warned them about exactly what you're talking about, possible dumpage and people leaving us little presents that we don't know about. And proposed to close all of those and the public themselves told us in no uncertain terms that we don't want you to take them out, we're willing to take that liability and risk. However, we're not going to reinstall them or install them in places that don't already have them. We're going to keep them where there at now, we're not going to put any new and the only time we're going to take some out is when they call us with problems and the public has told us that they're willing to shoulder that risk and the cost to go along with it.

GARY BEACH: We've been at it an hour and half, so let's find out your issues here that we want to make sure we hear before we leave.

MAN: Where's the 100.2 foot domestic well on this property?

T.J. BURR: There's actually two wells on the site, I believe one is being used for irrigation and ....

MAN: And one is currently is used for the new rest area irrigation well, the other one that's closest to the old building is going to be a bathroom.

T.J. BURR: So both wells are either up dip or approximately parallel to the potential metric water surface. Have you noticed any deterioration or a decrease in water quality in either of those wells? They've been there since 1966, approximately?

BOB LUCHT: I haven't seen those numbers but those are public water supply wells, the highway department will have the quarterly analysis required by the EPA.

MAN: Which would be monthly.

BOB LUCHT: Monthly? They do monthly? That was another point I forgot bring up they have to do monthly analysis for these waters supply wells for the EPA and so the cost for actually monitoring this well is practically nothing and it's the cost for the same guy to take samples anyway to take a couple more samples, a few dollars for the analysis.

MAN: The requirement is quarterly, just like you require. We do it monthly as a precautionary measure so we can catch something prior to it, you know, forewarned, forearmed type of thing. We spend a lot of money to do that, not only in the time it takes to sample but the cost of having the sample analyzed. We are willing to absorb that cost, we do that throughout the whole district in all our rest areas. We sample monthly and not quarterly as required just as a precautionary measure, so we're taking steps to insure that what's being put out to the public is good quality water. We're exceeding the requirements.

MAN: So the water is perfectly fine to drink, there's no problem with the water at all? On to the question of nitrates, you mentioned that you're certainly monitoring the present of nitrates. As a item that denotes pollution, what about chlorides?

BOB LUCHT: Well, chlorides should not be different practically between the sewage use and the water you comply with and chloride is just an indicator of salt in the water, it may be elevated just a little bit, it's not really a parameter that we're concerned with, if chloride is elevated for example 50 milligrams per liter, which is possible. It wouldn't cause a grounds water standards violation even if it .

GARY BEACH: So the answer is, we don't monitor chloride, we're not concerned about it.

BOB LUCHT: It's just not something that's likely to be radically changed. For chloride to become a concern in a septic system you have to have someone dump virtually salt water into that septic system.

GEORGE: I don't know if you want to waste your time on this, but I thought that was interesting, your statement that you approached the town for use of that, if they would have gone along with the deal, say perhaps you approved this little subdivision or some property out here across from the old theater entrance.

DONNA RUFFING: Right, there's a subdivision approved.

GEORGE: ....sewer from a country club that goes down hill from that, how much would it cost to handle it that way other than the operation of the, after the thing with the place, how much cost to .....in on that? Seems like maybe we're missing the boat a little bit if it's not too late for them.....

MAN: We didn't really turn it down because of the towns, it was one of the ....we had in the choosing septic over the pipe system, it was just one factor. The main factor was the cost and the ability to pump it. There's just comments that we pay our guys a lot of money, it cost us a lot of money and those things. Fact is, it was mentioned earlier, we already had operating requirements because of the drinking water, we have to have operator that's state trained to be certified with a certain level to go along with that as with the sewage. So, we already got those costs already in house. So, but when you go to the pumping system the level goes way up and quite frankly you're talking about the type of operator running a municipal system is the type of person you'd have to have to run the type of system with a pump and everything else that goes along with it. It that's type of operator and there's just not that many guys that run out and do that. There's just not that many in the state, most are in municipalities where you have them. So, if we happen to downgrade our systems, we're trying to get away from the training requirements and certification requirements because we can't hire people on because our pay rates, because people with that type of certification can name a pretty high price with municipalities. So, we have a hard time obtaining operators when we're training in house to take care of the systems at a lower operator level. And that cost is pretty high. So, even if we wanted to do the pumping and had chosen that alternative, I don't know if we could have found an operator that could maintain the system. In which case we'd failed our obligation and we'd have to shut the system down anyway. And we wouldn't have a pumping system.

MAN: I was thinking perhaps, Terry, I suppose got the qualifications of the boys who are here and if the town would have taken that over afterwards.....

MAN: And that's exactly why I proposed if we build they take it over exactly for that reason. There's a lot of skepticism about the types of water that goes through rest areas and I think that some of that is generated out of the trailer dump issue because like what I say, what is coming through the rest area itself is chlorinated treated water that goes into the toilets and comes out, we treat it and I think there's some fear that there would still be something there to .... and without the trailer dumps it's going to be pretty hard to do that. I understand their concern because the volume of water we're talking about and I don't know the situation on their system, it might be the difference between if they allow us to put.... they might not be able to service a subdivision with their treatment plant and they have some problems with treatment plants. So, there's some things the city had to consider and there's some other problems. Thank you.

GARY BEACH: Any other, we need to bring this meeting to close here, so.....go ahead.

MAN: If there is a violation of groundwater standards, what are some of the possible corrective actions we could take and concluding what would be the most severe corrective actions you might have to take?

BOB LUCHT: We had system like this that when they were installed had groundwater standards violations almost immediately. And one case we required a operator to aerate the septic tank and as soon as we did that the nitrate standard violation went away. We really haven't had that much trouble with these facilities after they've gotten UIC permits and had monitoring. What we've had

problems with in the past are facilities that don't have any permits and have no controls and all of sudden we're dealing with a complaint from a guy whose domestic water well has gotten nitrates in it. I would have to say in theory we could do almost anything we had to make them comply with the permit or eliminate the standard violation. Obviously, the whole issue of practicably comes in to play and what do we do about it if we do have a nitrate standards violation and it's just a little bit higher than the standard. Well, in some cases what we've done is have some people actually install yet another point of compliance a little farther out and see if we can comply with the permit at that point.

MAN: Have you ever had to shut a rest area down completely?

BOB LUCHT: We've never had to shut a rest area down to my knowledge. There aren't very many rest areas that have this level of permitting on them right now. They, this is a new program, we've only issued UIC permits to one other rest area in the past. Of course, we've never had problems with that one. Well at this point I think we've come to a point we're we can close this meeting out. I think everyone here has a pretty good understanding of what has been proposed and exactly what our response and our permit actually says. What I'd like to do is hold the comment period open until the First of February. That's about a week and a half and that will give you a chance now having heard this entire presentation to make written comments. I have a whole pile of business cards here if you need my address, it's also in the public notice period or the public notice that was in the paper and feel free to make your comments in writing between now and the first of February.

DONNA RUFFING: I would like to add a couple things. If you local people want to look at documents there are at the library ....on the rest area. You can look at those, you may need to take them somewhere else to make copies. And I also like to add something. I know that my comments about this being a futile public hearing may have not been real received. But as I told Gary, my blood pressure goes up pretty easily. I do want you to know that I have worked extensively with Gary Beach, who's the head of the Water Quality Division. And if they can determine after this comment period and this public hearing that the permit should be issued, then I trust in Gary that what they are doing they feel very comfortable in doing. But please, make your comments to him, let them have the opportunity to know what your thinking.

GARY BEACH: Realize it, when we issue the permit, if we issue it, there will be an analysis of comments. Our response to your comments. That will be available to anyone, so if you want to understand how we handle your comments, how do we respond to it and decide to grant this permit, that's available to you. And also, you have the right to appeal our decision to environmental quality council for review of our decision if you feel strongly that we've errored, you have that right of appeal. It would go to another body that would listen to your arguments and they have a power to set the permit aside if they feel that we've errored in our judgement.

BOB LUCHT: One thing I'd like to point out it that you need to put your name and address, full mailing address on this sign in sheet. If you do that, you will get a copy of the comments and response to comments that we will produce.

RFL/bb/00420.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-433R
SPECIAL CONDITIONS

Macy's Services - Grease Storage Tanks

This permit hereby authorizes the applicant:

Macy's Service
P.O. Box 1861
Jackson, WY 83001

to construct two 1,500 gallon grease storage tanks according to the procedures and conditions of application number 99-433R. The facility is located in NW1/4 Section 34, T41N, R116W in the county of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

12-8-99
Date of Issuance

DHC/dc
b/93030.ltr
cc: Town of Jackson; Attn: S. Hockett, P.O. Box 1687, Jackson, WY 83001

STATEMENT OF BASIS

I. General information.

Permit Number: 99-433R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

Not Applicable

VI. Documentation of Statement of Basis.

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

---

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

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 Doyle H.Conklin, SW District Engineering Supervisor, and completed on November 24, 1999. 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."

DHC/bb/93030.ltr

DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE OF WYOMING
UNDERGROUND INJECTION CONTROL PERMIT
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS

ISSUED UNDER CHAPTER 16, WATER QUALITY RULES AND REGULATIONS

(X) New
( ) Modified

Permit Number: UIC 99-434
Subclass Number: 5E3

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations, Chapter 3 (1988), and Chapter 16 (1998),

Applicant: Moran Mountain Resorts, LLC
P.O. Box 316
Moran, WY 83013
ATTN: Greg Smith, General Manager
(307) 543-2413

is authorized to operate the Hatchet Resort Wastewater Facility in the NE¼NE¼, Section 36, Township 45 North, Range 113 West, of the 6th Principal Meridian; according to the procedures and conditions of application # 99-434 and other conditions of this permit as contained on pages 1 through 9.

This permit shall become effective on date of issuance.

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

4/10/00
Date

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

4-14-00
Date

TABLE OF CONTENTS

A. DISCHARGE ZONE AND AREA OF REVIEW 3
Discharge Zone: 3
Area of Review 3

B. GROUNDWATER CLASSIFICATION 3

C. AUTHORIZED OPERATIONS 4

D. ENVIRONMENTAL MONITORING PROGRAM FOR GROUNDWATERS OF THE STATE 4
Samples and measurements 4
records of all monitoring information 4
information shall include 4
groundwater in the receiving formation 4
waive further monitoring 5

E. REQUIREMENTS FOR MONITORING THE DISCHARGE 5

F. RECORDS AND REPORTS 5
retain copies of all reports 5
planned physical alterations or additions 5
submitted no later than 30 days 5
report any noncompliance 5
other information 5
noncompliance with a permit condition or malfunction 6
written submission shall be provided within 5 days 6
noncompliance not reported otherwise 6
failed to submit any relevant facts 6
retain all records concerning the nature and composition 6
public notice and an opportunity for hearing 6
annual report of operations 6
report for an aborted or curtailed operation 6

G. GENERAL PERMIT CONDITIONS 6
permit may be modified, suspended or revoked 6
reviewed at least once every 5 years 6
modified at any time as may be required 7
Public notice of the permit review 7
Any permit noncompliance constitutes a violation 7
filing of a request 7
(permittee) is always responsible for permit compliance 7
legal action 7
does not convey any property rights 7
provisions of this permit are severable 7
waste which migrates into an aquifer 7
permit is for a term of ten years 7
modification which may result in a violation 7
construction requirements 7
notify the administrator 7
construction is complete 8

H. DUTIES OF THE PERMITTEE 8
Comply with all permit conditions 8
Halt or reduce activity 8
Take all reasonable steps 8
Furnish to the administrator 8
Operate and maintain all facilities 8
enter the premises where a regulated facility 8

I. SPECIAL MEASURES THE DIRECTOR FINDS NECESSARY: 8
sewage is found to be surfacing 8

J. SIGNATORIES REQUIREMENT 8
For a corporation 8
For a partnership or sole proprietorship 9
By a duly authorized representative 9
authorization is no longer accurate 9
certification 9

****

A. DISCHARGE ZONE AND AREA OF REVIEW

1. **Discharge Zone:**
This injection facility (sanitary leachfield) is authorized to inject into the Alluvial Aquifer along Blackrock Creek which is found at this location from zero to 50 feet below the ground surface.

2. **Area of Review**
The facility authorized by this permit is located in:
Township 45 North, Range 113 West, 6th Principal Meridian
Section 36: NE¼NE¼

The Area of Review around this facility is legally described as:
Township 45 North, Range 113 West, 6th Principal Meridian
Section 25: S½SE¼
Section 36: NE¼
Township 45 North, Range 112 West, 6th Principal Meridian
Section 30: SW¼SW¼
Section 31: W½NW¼

B. GROUNDWATER CLASSIFICATION

1. The groundwater in the Alluvial Aquifer along Blackrock Creek is classified as class I (Domestic) under Chapter 8 of Wyoming Water Quality Rules and Regulations (March 11, 1993). This classification was made because:

a. The groundwater in this formation meets all of the quality standards set forth in Chapter 8 for class I water;

b. The groundwater in this formation is currently being used for domestic purposes at several points of withdrawal; and

2. Groundwater of class I shall not be degraded so as to make it unusable as a source of water for this purpose. Any parameters which do not meet the class of use standard shall not be degraded whatsoever.

C. AUTHORIZED OPERATIONS

1. The Moran Mountain Resorts, LLC is authorized to inject 154 barrels per day, (6,450 gallons per day) of wastewater as described: Sanitary waste only from restaurant and motel complex. The waste to be disposed of is to be treated first in a septic tank. The operator is authorized to inject at a pressure of no more than atmospheric pressure as measured at the leachfield. This pressure is controlled by gravity drainage and is not required to be monitored.

2. This permit also covers a small soil absorption system for wastewater from a spa to be constructed on the same property.

3. **Hazardous Waste** This permit does not allow for the injection of any hazardous waste as defined by 40 CFR 261. Injection of any substance defined as hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

D. ENVIRONMENTAL MONITORING PROGRAM FOR GROUNDWATERS OF THE STATE

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

2. The Moran Mountain Resorts, LLC shall prepare records of all monitoring information to be retained for a period of at least 3 years after closure of the facility.

3. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;
   b. The name(s) of individual(s) who performed the sampling or measurements;
   c. The date(s) analyses were performed;
   d. Names of individuals who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

4. The groundwater in the receiving formation shall be sampled and the following parameters analyzed on the following schedule and from the following wells.

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (UCL)*
SAS Number 1 Monitor Well	Twice a year in the spring and fall	EPA Method 350.3	Ammonia as N	.500
		EPA Method 353.2	Nitrate as N	10.0
		EPA Method 604	Phenol	.001

*All chemical concentrations in this permit are expressed in mg/l unless otherwise noted.

5. After the first two years of operation, the Water Quality Division may, without reissuing this permit, waive further monitoring of any parameter from the above list or may require additional monitoring based on new information about the nature of the waste. The Water Quality Division may also, after the first two years of operation, approve a more or less stringent monitoring schedule.

E. REQUIREMENTS FOR MONITORING THE DISCHARGE

The Moran Mountain Resorts, LLC shall monitor the quality of the effluent from the septic tank at the point where the flow leaves the tank on the following schedule. The following parameters shall be analyzed by the listed methods and reported annually:

SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (UCL) *
Twice a year in the spring and fall	EPA Method 420.1	Total Phenols	.250
	EPA Method 353.2	Nitrate as N	15.0
	EPA Method 350.3	Ammonia as N	150

*All chemical concentrations in this permit are expressed in mg/l unless otherwise noted. The above Upper Control Limit (UCL) is not to be exceeded in any sample. Exceedance of this value is a violation of this permit and shall require corrective action. In the event that any contaminant is found to exceed the above UCL's The Moran Mountain Resorts, LLC shall undertake a study to determine and eliminate the source of that contaminant from the waste stream. Any parameter found to be exceeding the above UCL shall be sampled for in the down gradient wells if not already sampled for. After the first two years of operation, the Water Quality Division may, without reissuing this permit, waive further monitoring of any parameter from the above list or may require additional monitoring based on new information about the nature of the waste. The Water Quality Division may also, af the first two years of operation, approve a more or less stringent monitoring schedule.

F. RECORDS AND REPORTS

1. The Moran Mountain Resorts, LLC shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.

2. The Moran Mountain Resorts, LLC shall give notice to the administrator as soon as possible of any planned physical alterations or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alteration or addition.

3. 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 30 days following each schedule date.

4. The Moran Mountain Resorts, LLC shall report any noncompliance which may endanger health or the environment, orally 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 groundwaters 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.

5. The Moran Mountain Resorts, LLC shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 4. above.

6. When The Moran Mountain Resorts, LLC becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the administrator, it shall promptly submit such facts or information.

7. The Moran Mountain Resorts, LLC shall retain all records concerning the nature and composition of injected fluids until 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.

8. A subsurface discharge (injection) facility may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, an underground injection control permit has been issued by the department for the proposed operation.

9. The annual report of operations for this facility shall be submitted on forms provided by the department and shall include the following information:

a. Any permit exceedances within the previous year.

b. The analytical results for sampling for the injected water and any groundwater sampling results required under Section D or E of this permit.

c. Annual reports are due in the Cheyenne office of the Water Quality Division no later than December 1 of each year.

10. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

G. GENERAL PERMIT CONDITIONS

1. 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:

a. Violation of the permit;

b. Obtaining a permit by misrepresentation or failure of the discharge well or system.

2. Each permit is reviewed at least once every 5 years, and may be reviewed more frequently.

3. 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 is issued. A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in The Moran Mountain Resorts, LLC's discharge, as may be ordered by the council. This permit can be terminated by authority of the administrator for one or more permit violations.

4. Public notice of the permit review and request for public comment will be made every 10 years by the administrator.

5. Any permit noncompliance constitutes a violation of the permit and is grounds for enforcement action, permit termination, revocation, or modification.

6. The filing of a request by The Moran Mountain Resorts, LLC for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. The owner/operator of record (permittee) is always responsible for permit compliance. A permit holder cannot transfer his permit without approval of the department director, and no such transfer will be approved if the facility is not in compliance with the existing permit unless the proposed permittee agrees to bring the facility into compliance.

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

9. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

10. The provisions of this permit are severable, and if any provision of the permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

11. Pollution or waste which migrates into an aquifer containing a usable groundwater of the state is a violation of the permit.

12. This permit is for a term of ten years. If The Moran Mountain Resorts, LLC wishes to continue injection after the expiration date of this permit, they will be required to apply to the Administrator for, and obtain, a new permit.

13. 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 a permit condition shall be reported to the administrator through the submission of a new or amended permit application.

14. The injection facility covered by this permit shall meet the construction requirements found in Section 10 of Chapter 16, and Part D of Chapter 11, Water Quality Rules and Regulations. The permittee shall submit notice of completion or construction to the administrator and allow for inspection of the facility upon completion of construction prior to commencing any injection activity.

15. the permittee shall notify the administrator seven (7) days prior to conversion of this facility to any other use, or final abandonment of the facility.

16. Injection shall not commence until all construction is complete.

H. DUTIES OF THE PERMITTEE

.ɛ is a duty of the permittee to:

1. Comply with all permit conditions;

2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce The Moran Mountain Resorts, LLC activity in order to maintain compliance with the permit conditions;

3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit; and

4. Furnish to the administrator within a reasonable time, any information which the administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the administrator, upon request, copies of records required to be kept by this permit.

5. 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 this permit. Proper operation and maintenance includes effective performance, adequate funding and operator staffing and training, and adequate 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 the permit.

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

I. SPECIAL MEASURES THE DIRECTOR FINDS NECESSARY:

1. In the event that sewage is found to be surfacing from the leachfield covered by this permit, this is a violation of this permit and shall be reported immediately as required by Section F of this permit. The Moran Mountain Resorts, LLC shall submit a modified application showing plans for a replacement leachfield (or other type of waste disposal method) within 90 days of determining that the primary leachfield has failed.

2. Moran Mountain Resorts must notify Dick Worl, Teton County Sanitarian, P.O. Box 1727, Jackson, WY 83001 (307) 733-3959 at least three days prior to installation to arrange for an inspection of this system.

J. SIGNATORIES REQUIREMENT

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

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

b. For a partnership or sole proprietorship -- by a general partner or the proprietor, respectively;

c. 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 described 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.

2. 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 an authorized representative.

3. Any person signing a report or other requested information shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

RL/mad 00820.ltr

STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

A. Permit Number: 99-434

B. Facilities Covered: The Hatchet Resort Wastewater System. Covers a new leachfield with a capacity of 6,450 gallons per day.

C. Class of Facility: 5E3 (Under 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 Section 15, Chapter III. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 15. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

Applicable. This is an existing system which is being modified. The modification requires the owner to obtain an individual UIC permit to allow modifications to the system. The new system will use a new septic system and leachfield. A groundwater review has been completed in accordance with Section 15. This system will provide for a flow capacity to 6,450 gallons per day.

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 March 1, 2000 and ending on March 31, 2000 (30 day notice as required by Chapter 16.) This notice was published in the Jackson Hole News 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 Section 5, Chapter 16, Wyoming Water Quality Rules and Regulations. This review was performed by Robert F. Lucht, P.E. and P.G., UIC Program Supervisor, and completed on February 22, 2000. 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."

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Hatchet Resort Sewerage Improvement Teton County, Wyoming

ENGINEER: Jerald B. Crews
Professional Engineer (Civil)
Cardinal Design Group
2334 Rose Lane
Riverton WY 82501
307-856-0567
877-469-0567

GEOLOGIST: Gretchen Hurley
356 Nostrum Road
Thermopolis, WY 82443

APPLICANT: Moran Mountain Resorts, LLC
Mr. Greg Smith, General Manager
Box 316
Moran WY 83013
(307) 543-2413

WATER QUALITY DIVISION REFERENCE NUMBER: UIC 99-434

REVIEWING ENGINEER: ROBERT F. LUCHT, P.E. & P.G.

DATE OF REVIEW: 10/15/99

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

1. The total design flow shown in the application is 4,550 gallons per day. That was incorrect. Our calculated total design flow is 5660 gallons per day based on the following:

CATEGORY	SIZE	DESIGN FLOW IN GPD
Motel (West System)	3 at 40 = 120 gpd. 8 at 80 = 640 gpd.	760.00
Store & Employee Housing	6 at 150 = 900 gpd. Public Rest Room = 250 gpd.	1,150.00
Managers Home	2 at 150 = 300 gpd. 6 at 150 = 900 gpd.	1,200.00
Restaurant & Bar & Residence (15gal/meal)	110 at 15 = 1650 gpd. 6 at 150 = 900 gpd.	2,550.00
TOTAL:		5,660.00

The required standard is 150 gallons per day per bedroom, or per employee residence bed.

2. No groundwater gradient has been attempted for this facility. Water Quality Rules and Regulations, Chapter 3, Section 15 requires a groundwater study for all systems of 2,000 gallons per day or larger. Please provide a groundwater study showing the direction of groundwater flow. This will require the installation of a minimum of three monitor wells to allow this direction to be determined. This groundwater study must be done by a Registered Professional Geologist. This study must include the depth to groundwater and the quality of shallow groundwater, the depth to impervious layers, and any down gradient users.

3. The water in the aquifer at this complex is Class I (Domestic) Groundwater of the State under Chapter 8, Wyoming Water Quality Rules and Regulations. This classification is made because the groundwater is used for domestic purposes and meets all of the quality standards for class I groundwater.

4. All class V UIC Permits require a point of compliance with groundwater standards. That point of compliance varies from a monitoring well directly under a leach field to a series of monitoring wells around the leach field with the point of compliance defined as the down gradient well. The cost of installation varies with the type of compliance point, as does the stringency of the monitoring system. Proposed point of compliance will be reviewed when groundwater study is completed.

5. Chapter 11, Section 39(a)(ii) requires that each septic tank have a total retention time of 36 hours. Capacities for the Hotel and Store/Employee Housing/Managers Home/Restaurant tanks must be at least 1,100gal and 7,350 gal., respectively. The proposed 3,000 gal tank for the Hotel will be sufficient; a 7,500gal. or greater tank must be used on the other section.

6. For a kitchen serving 50 meals per peak hour, Chapter 11, Section 39(c) requires a grease trap of 3,250 gallons capacity. The proposed 1,000 gal. tank is insufficient.

7. At 5,660 G.P.D. the leach field will require 390 leach chambers at a minimum as opposed to the proposed 328.

8. Six percolation tests are reported to average out at 27 minutes per inch (used to calculate leach chamber quantity). However there is no data supplied to support this claim.

   Please provide the locations and data for all percolation tests.

9. The required separation distance between the absorption system and the body of water (ditch) are only 77 feet. Alter the ditch path as you have indicated to allow the minimum 100 feet.

10. Ground water mound information is not supplied. Using the water interval from the Hatchet #4 well (abandoned), which was 8 feet (from 33-41 feet) and the rise in water table for a 30 min/inch adsorption rate, a rise in the water table of 9.06 feet would occur. This would NOT allow the required 3 feet of non-saturated soil between the bottom of the system and the top of the ground water mound. (Ground water is estimated at 12 feet in absorption area).

11. The State of Wyoming recently changed the definition of a public water supply. The new definition is found in W.S. 35-11-103(c)(viii) and states: " 'Public Water Supply' means a system for the provision to the public of water for human consumption through pipes or constructed conveyances, if such a system has at least fifteen (15) service connections or regularly serves at least twenty-five (25) individuals." Under this new definition, this facility also requires a permit to construct a public water supply system, since it is designed to provide water for more than 25 individuals. Please provide the information necessary to evaluate this system as a public water supply.

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-435
SPECIAL CONDITIONS

Riske Field Water Line Relocation

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82003-1469

to construct, install or modify a relocation of 8" diameter waterline and fire hydrant plus an additional fire hydrant according to the procedures and conditions of the application number 99-435. The facility is located in NE 1/4 Section 24 T14N R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

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

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

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

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

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/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 following permit conditions:

1 of 5 The applicant will notify the DEQ/WQD Southeast District Office by the attached post card of the date construction will begin and the estimated completion date.

2 of 5 The applicant will provide immediate oral and/or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 5 The all abandoned water line within 5 feet of the new construction shall be removed. The ends of the abandoned water line shall be plugged, preferably with 3000 psi concrete fill of at least 3 feet into the abandoned ends.

4 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate. All modifications or deviations from the authorized plans must be highlighted.

5 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-18-99
Date of Issuance

LBH/bb/92606.ltr

STATEMENT OF BASIS

I. Permit Number: 99-435

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. NO

B. Chapter XII. YES

III. Basis for issuing permit. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

IV. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

NO

V. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Louis B. Harmon, Southeast District Engineering Supervisor, and completed on October 13, 1999. 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."

LBH/bb/92606.ltr

The State
of Wyoming

Jim Geringer, Governor

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

ADMIN/OUTREACH	ABANDONED MINES	AIR QUALITY	INDUSTRIAL SITING	LAND QUALITY	SOLID & HAZ. WASTE	WATER QUALITY
(307) 777-7758	(307) 777-6145	(307) 777-7391	(307) 777-7369	(307) 777-7756	(307) 777-7752	(307) 777-7781
FAX 777-3610	FAX 777-6462	FAX 777-5616	FAX 777-6937	FAX 777-5864	FAX 777-5973	FAX 777-5973

October 12, 1999

Randy Calhoon
5301 Sagebrush Ave.
Cheyenne, Wyoming 82009

RE: 99-436 Rocking "R" Studio Septic System Application

Dear Mr. Calhoon:

Recently, the Wyoming Department of Environmental Quality/Water Quality Division(WQD) received an application from you for a "Permit To Construct" a septic system in Laramie County. This application should have been sent to the Cheyenne/Laramie County Health Department - Environmental Health Division, instead of the state. Through agreements between the state and the county, all septic systems in Laramie County with less than 2000 gallons per day(gpd) of design flow are reviewed and permitted by the county. Because your project appears to be less than 2000 gpd in size (your application does not actually specify the design flow) the WQD has forwarded your application package to the county.

The county health offices are located at 100 Central Avenue, or they can be contacted at (307) 633-4090. Before the county can process your application you will need to complete and sign a county permit to construct application form.

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

Sincerely;

Ronald L. Ewald

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

RLE/mad 92598.ltr
cc: Roger Krum
Laramie County Environmental Health Division
IPS Section

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-437
SPECIAL CONDITIONS

Old Yellowstone Garage Restaurant

This permit hereby authorizes the applicant:

David Gilbert
Mangiar Bene E Bare Maglio, Inc.
P.O. Box 1436
Dubois, WY 82573

to construct a 4-inch diameter water service line according to the procedures and conditions of application number 99-437. The facility is located in SW1/4 SW1/4 Section 27, T41N, R116W in the county of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the NW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-9-99
Date of Issuance

DHC/dc
b/92863.ltr
cc: Town of Jackson; Attn: S. Buckstaff, Jr.; P.O. Box 1687, Jackson, WY 83001

STATEMENT OF BASIS

I. General information.

Permit Number: 99-437

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. No

B. Chapter XII. Yes

III. Basis for issuing permit.

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

Yes

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.

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

Not Applicable

VI. Documentation of Statement of Basis.

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

---

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

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 performed by Doyle H. Conklin, SW District Engineering Supervisor, and completed on November 4, 1999. 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."

DHC/bb/92863.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-438
SPECIAL CONDITIONS

Griffis Septic Tank/Leach Field

This permit hereby authorizes the applicant:

Douglas & Kimberly Griffis
P. O. Box 564
Lovell, WY 82431

to construct a septic tank/leach field to serve a four bedroom residence according to the procedures and conditions of application number 99-438. The facility is located in SE1/4 Sec.27, T56N, R96W, Lot 5 of the Homestead Subdivision in the county of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-3-99
Date of Issuance

JCH/jm
b/92735.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-438

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.
N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.
N/A

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Jeff Hermansky, Northwest District Engineering Supervisor, and completed on October 26, 1999. 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."

JCH/bb/92735.ltr

PERMIT TO CONSTRUCT

X New
Renewal
— Modified

PERMIT NO.99-439R
SPECIAL CONDITIONS
REF/PERMIT NO.74-59

Crow Creek Waste Water Treatment Plant Upgrade

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82003-1469

to construct, install or modify a upgrade of the Crow Creek Waste Water Treatment Plant to 6.5 mgd capacity, 9mgd maximum daily capacity, 12 mgd instantaneous capacity according to the procedures and conditions of the application number 99-439R. The facility is located in SE 1/4 Section 3 T13N R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of five years from the date of issuance of this permit.

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

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

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

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

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

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/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 5 The applicant will notify the DEQ/WQD Southeast District Office by the attached post card of the date construction will begin and the estimated completion date.

2 of 5 The applicant will provide immediate oral and/or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 5 Chapter 11, Section 15(b)(viii) requires that the rotating arms be at least 18" above the media. The design commentary states that a minimum clearance of 18" is required to permit the arms to pass over an individual that may have fallen on the media. The Cheyenne Board of Public Utilities has written procedures that require securing the rotating arms before individuals go onto the filter media. The Cheyenne Board of Public Utilities has the option of installing hand rails around the perimeter of the trickling filter basins or modifying the design to provide 18" of clearance between the lowest point of the rotating arms and the media.

4 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate. All modifications or deviations from the authorized plans must be highlighted.

5 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

2-15-2000
Date of Issuance

LBH/bb/00370.ltr

STATEMENT OF BASIS

I. Permit Number: 99-439R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. YES

B. Chapter XII. NO

III. Basis for issuing permit.

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.

YES

IV. Facilities not specifically covered by regulations

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

Chapter 11, Section 15, Attached Growth Systems, has very detailed design standards for trickling filters.

B. Briefly state the basis for the deviation.

The commentary on design standards begins with the statement that the prediction of trickling filter performance is subject to large errors. The Crow Creek Plant was constructed in 1949 as an 8 mgd plant. The trickling filters performed successfully. In 1974-75 the media depth of the trickling filters was reduced from 8 ft to 5 ft and the plant was derated to 4.5 mgd. The modified plant has been successfully operated at times of peak flow at 6.5 mgd. The existing facility can be considered to be a full scale pilot plant study. Under Section 5 of Chapter 12, the following variations to the design standards of Chapter 11, Section 15 are granted:

1. BOD loading of up to 30lb/1000 cu.ft./day may be applied to the trickling filters.
2. As the filters have successfully operated for the last 50 years without the provisions for venting and flushing required by Section 15, there is no need to add such features now.

C. Permit based on general or statewide deviation contained in approved policy statement.

NO

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

NO

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Louis B. Harmon, Southeast District Engineering Supervisor, and completed on February 11, 2000. 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."

LBH/bb/00370.ltr

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Crow Creek Wastewater Treatment Plant Upgrade

ENGINEER: Black and Veatch Corporation

APPLICANT: Cheyenne Board of Public Utilities

WATER QUALITY DIVISION REFERENCE NUMBER: 99-439

REVIEWING ENGINEER: Louis B. Harmon

DATE OF REVIEW: November 9, 1999

Professional Engineer (Civil)
Louis B. Harmon
3523
Date 9 Nov 1999
WYOMING

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. The design as submitted appears to be viable, however there are several over sights in the plans and the design report as required by Sections 6 and 7 of Chapter 11 of the Wyoming Division of Water Quality Rules and Regulations. It is my understanding the plans submitted for approval represent the 90% design effort. Please submit the final plans with the additional details requested in this review.

2. Although the following items are considered part of the design information, it can be conveniently displayed on Sheet Y-1 of the plans.

   a. First of all, Sheet Y-1 needs a north arrow and a graphical scale.
   b. The property lines of the Crow Creek property need to be identified.
   c. The elevations of the 25 year, 100 year, and the 1985 flood should be identified. There should be a note describing the event frequency assigned to the 1985 flood.
   d. The distances to the nearest habitations and direction arrows should be displayed.
   e. A wind rose should be applied to the drawing. The source of the wind rose should be identified.

3. The monthly mean highs, lows, and mean daily temperatures should be included in the design report.

4. The design report does not provide screen velocities and a description of acceptable velocities recommended by the screen manufacturer. If these velocities are not less than 3.0 fps, a variance must be requested.

5. There is no discussion of how deposition will be prevented or managed between the diversion structure and the bar screen channel. The plans suggest a sump that might fill with grit until some sort of stable channel is established depending on influent velocities.

6. The design report does not discuss the production rate for screenings and grit or the amount of storage available.

7. Details of grit handling requirements and capacity are not provided in the design report.

8. The design report should discuss the functioning of high rate, recirculating filters and provide references for the justification of the variances from the requirements of Chapter 11.

   a. An evaluation of the underdrain system and the percentage of unsubmerged open area should be provided.
   b. An evaluation of the flushing equipment and procedures for the trickling filters should be made.
   c. An evaluation of the ventilation of the trickling filters should be made.
   d. An evaluation of the benefits for ammonia removal of replacing the five feet of rock removed in 1975. Restoring the trickling filters to full depth and reducing the recirculation rate should create a nitrifying zone at and near the bottom of the trickling filters.

LBH/bb/92891.ltr

PERMIT TO CONSTRUCT

✓ New
Renewal
Modified

PERMIT NO. 99-440
SPECIAL CONDITIONS

St. Mark's Church Fire Sprinkler System Water Main Tap

This permit hereby authorizes the applicant:

St. Mark's Episcopal Church
1908 Central Avenue
Cheyenne, WY 82001

to construct and install a water main tap for a fire sprinkler system according to the procedures and conditions of the application number 99-440. The facility is located in Section 31, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/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 4. The applicant will notify the DEQ/WQD Southeast District Office by the attached post card of the date construction will begin and the estimated completion date.

2 of 4. The applicant will provide immediate oral and/or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. **Submittal of <u>as-constructed plans and specifications</u>** for the system as it was constructed, certified by an engineer if appropriate. All **modifications or deviations** from the authorized plans **must be highlighted**.

4 of 4. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-29-99
Date of Issuance

RLE/bb/92727.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 99-440

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

A. Chapter XI. No

B. Chapter XII. 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 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.

NOT Applicable

B. Briefly state the basis for the deviation.

NOT Applicable

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).

NOT Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1]. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

NOT Applicable

VI. Deleted

VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Ronald L. Ewald, Senior Analyst, and completed on October 26, 1999. 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."

RLE/bb/92727.ltr

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

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: St. Mark's Church Fire Sprinkler System Water Main Tap

ENGINEER: None at this time.

APPLICANT: St. Mark's Episcopal Church
1908 Central Avenue
Cheyenne, Wyoming 82001
Ph: (307) 634-7709

WATER QUALITY DIVISION REFERENCE NUMBER: **99-440**

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

DATE OF REVIEW: October 18, 1999

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. Professional Engineer Required - The plans must be stamped and signed by a Wyoming registered Professional Engineer (PE). Also, the name, address, and phone number of the engineer needs to be indicated on the application form. You do not need to submit new plans; just have your engineer come to our office and stamp the plans.

2. Approval Letter from Cheyenne BOPU (Board of Public Utilities) Needed - Because you intend to tap into the BOPU water system, you must have their approval. Please submit a brief letter from the BOPU stating that they agree to allow the tap onto their system and that they can supply adequate water.

RLE/bb/92666.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-441
SPECIAL CONDITIONS

Weaver Septic Tank/Leach Field

This permit hereby authorizes the applicant:

Kim Weaver
733 Fremont
Thermopolis, WY 82443

to construct a septic tank/leach field according to the procedures and conditions of application number 99-441. The facility is located in Section 11, T42N, R95W in the county of Hot Springs, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

The issuance of this permit does not convey any property rights in either real or personal property or any nvasion 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 4 The applicant will notify the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-3-99
Date of Issuance

JH/lb
b/92780.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-441

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

N/A

VII. Documentation of Statement of Basis.

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

---

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

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 Jeff Hermansky, Northwest District Engineering Supervisor, and completed on 10/28/99. 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."

JCH/bb/92780.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-442
SPECIAL CONDITIONS

Hall Septic Tank/Leach Field

This permit hereby authorizes the applicant:

David V. Hall
1020 Culbertson
Worland WY 82401

to construct a septic tank/leach field to serve a two bedroom trailer house according to the procedures and conditions of application number 99-442. The facility is located in Lot 1, Block 1, Town of Manderson, Sec. 31, T50N, R92W in the county of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

Granting this permit does not imply that the Wyoming DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational quirements. 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 (WQD), to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance, or non-compliance with any rules, regulations, standards, permits or orders.

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations in the exercise of 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 4 The applicant will notify Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, Northwest District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of t 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.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-29-99
Date of Issuance

JCH/jm
b/92725.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-442

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

N/A

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by, Jeff Hermansky, Northwest District Engineering Supervisor, and completed on October 25, 1999. 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."

JCH/bb/92725.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-443
SPECIAL CONDITIONS

Evanston Elks Lodge

This permit hereby authorizes the applicant:

Evanston Elks Lodge
P.O. Box 268
Evanston, WY 82930

to construct a sanitary sewer main extension consisting of approximately 1196 feet of 8-inch diameter line according to the procedures and conditions of application number 99-443. The facility is located in NE1/4 Section 23, T15N, R120W in the county of Uinta, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: SW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify the SW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the SW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the SW District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

12/17/99
Date of Issuance

DHC/mad 93153.ltr

cc: City of Evanston; Attn: Brian Honey; 1200 Main St.; Evanston, WY 82930

STATEMENT OF BASIS

I. General information.

Permit Number: 99-443

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

Not Applicable

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

VI. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Doyle Conklin, SW District Engineering Supervisor, and completed on November 24. 1999. 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."

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-444
SPECIAL CONDITIONS
REF/PERMIT #

LUSK REST AREA WATER SYSTEM

This permit hereby authorizes the applicant:

Wyoming Department of Transportation
P.O. Box 1708
Cheyenne, WY 82006

to construct, install or modify a public water supply according to the procedures and conditions of the application number 99-444. The facility is located in NE¼, Section 13, T32N, R64W in the county of Niobrara, in the State of Wyoming. This permit shall be effective for a period of five (5) years from the date of issuance of this permit.

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

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

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

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

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

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/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 witn all of the following permit conditions:

1 of 5 The applicant will notify the DEQ/WQD UIC Program Supervisor by the attached post card of the date construction will begin and the estimated completion date.

2 of 5 The applicant will provide immediate oral and/or written notice to the DEQ/WQD UIC Program Supervisor in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD UIC Program Supervisor on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. **Submittal of a constructed plans and specifications** for the system as it was constructed, certified by an engineer if appropriate. All **modifications or deviations** from the authorized plans **must be highlighted.**

4 of 5. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 5. Within 90 days of the date of this permit, Wyoming DOT shall submit an Operation and Maintenance (O&M) Manual for this public water supply system. After obtaining approval of this O&M Manual, the manual shall be considered part of this permit, and failure to follow the provision of the O&M Manual will be considered a permit violation.

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-3-99
Date of Issuance

RFL/bb/92765.ltr
cc: MK Centennial Engineering, Inc.; 5920 Yellowstone Road, Suite 1; Cheyenne, WY 82009

STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

A. Permit Number: 99-444

B. Facilities Covered: The Lusk Rest Area Public Water Supply System. Covers a modification to an existing Public Water Supply. Modifications will include the construction of a concrete pad around the well, replacement of the pump, installation of a pitless adaptor on the well, and installation of new service lines.

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

A. Chapter 8	Yes	D. Chapter 12.	Yes
B. Chapter 9	No	E. Chapter 13.	No
C. Chapter 11.	No	F. Chapter 16.	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 based on deviation from applicable regulations in accordance with approved policy statement.

Yes. This is a highway rest area which can be closed in the event of failure of the public water system. This system does not include a standby power generator, does not include finished water storage, and does not include more than one water source.

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

NOT Applicable

V. Application does not require review to determine groundwater impacts in accordance with Section 15, Chapter III. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 15. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

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 not been provided with a draft permit prior to the permit being issued.

B. No Public Notice is required for this permit.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 5, Chapter 16, Wyoming Water Quality Rules and Regulations. This review was performed by Robert F. Lucht, P.E. and P.G., UIC Program Supervisor, and completed on October 22, 1999. 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."

RFL/bb/92766.ltr

PERMIT TO CONSTRUCT

X New
— Renewal
Modified

PERMIT NO. 99-445
SPECIAL CONDITIONS

Medicine Bow River Ranch: Donavan Draw House Septic System

This permit hereby authorizes the applicant:

Mark Ledder
Medicine Bow River Ranch
P.O. Box 410
Medicine Bow, Wyoming 82329

to construct and install a residential septic system with leach field according to the procedures and conditions of the application number 99-445. The facility is located in the NW 1/4 of Section 29, T21N, R78W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/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 5. The applicant will notify the DEQ/WQD Southeast District Office by the attached post card of the date construction will begin and the estimated completion date.

2 of 5. The applicant will provide immediate oral and/or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 5. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District Office on the form provided (CERTIFICATION OF COMPLETION) the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. **Submittal of <u>as-constructed plans and specifications</u>** for the system as it was constructed, certified by an engineer if appropriate. All **modifications or deviations** from the authorized plans **must be highlighted**.

4 of 5. <u>Septic Tank Riser Requirement</u> - On Vaughn Concrete septic tanks, either a 6 inch diameter clean-out riser or the manway must be extended to the ground surface from each compartment of the tank.

5 of 5. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

10-29-99
Date of Issuance

RLE/bb/92708.ltr

cc: Carbon County Planner/Sanitarian

STATEMENT OF BASIS

I. General information.

A. Permit Number: 99-445

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

A. Chapter XI. Yes

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.

Yes

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.

NOT Applicable

B. Briefly state the basis for the deviation.

NOT Applicable

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).

NOT Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1]. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

NOT Applicable

VI. Deleted

VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Ronald L. Ewald, Senior Analyst, and completed on October 22, 1999. 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."

RLE/bb/92708.ltr

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

PERMIT TO CONSTRUCT

X New
__ Renewal
__ Modified

PERMIT NO.99-446R
SPECIAL CONDITIONS
REF/PERMIT NO.99-470

Chugwater Well No. 4

This permit hereby authorizes the applicant:

Town of Chugwater
P.O. Box 243
Chugwater WY 82210

to construct, install or modify a three hundred foot deep municipal water supply well completed in the Brule Formation according to the procedures and conditions of the application number 99-446R. The facility is located in SW 1/4 Section 30 T21N R66W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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 operator.

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

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

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

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

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

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

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

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

1 of 5 The applicant will notify the DEQ/WQD Southeast District Office by the attached post card of the date construction will begin and the estimated completion date.

2 of 5 The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 5 This permit is for the construction of the well only. The installation of the pitless adaptor and the pump will require a separate permit to construct.

4 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate. All modifications or deviations from the authorized plans must be highlighted.

5 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

12-8-99
Date of Issuance

Dennis Hemmer
Director
Department of Environmental Quality

LBH/mad 93070.ltr

cc: Roy Prior, USDA Rural Utility Service
Dale Anderson, WWDC

STATEMENT OF BASIS

I. Permit Number: 99-446R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. NO

B. Chapter XII. YES

III. Basis for issuing permit: Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

IV. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.

NO

V. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Louis B. Harmon, Southeast District Engineering Supervisor, and completed on December 2, 1999. 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."

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Chugwater Water Supply System Replacement Water Supply Well and Two Monitoring Wells

ENGINEER: Wester-Wetstein & Associates, Inc

APPLICANT: Town of Chugwater

WATER QUALITY DIVISION REFERENCE NUMBER: 99-446

REVIEWING ENGINEER: Louis B. Harmon

DATE OF REVIEW: November 4, 1999

Professional Engineer (Civil)
Louis B. Harmon
8523
WYOMING
Louis B. Harmon
4 Nov 1999

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. All applications for permits to construct public water supply systems must be accompanied by an engineering design report as required by Section 6 of Chapter 12 of the Water Quality Division Rules and Regulations. This application does not include a design report. However, the Level II WWDC Project Water Supply Study is available and answers most of the questions that are normally answered by the engineering design report. The issues raised in the balance of this review could not be answered from the Level II project report.

2. Chapter 12, Section 9(b) describes the requirements for the siting and development of groundwater wells. A detailed site map showing the location of the well, nearby wells, structures, and sewers is required to satisfy design requirements. The well casing must terminate at least 3 ft. above the 100 year flood plain. The engineer should furnish a certification that this requirement will be satisfied by the proposed construction.

3. Chapter 12, Section 9(b)(iii)(B)(IX) requires that separate water bearing strata be isolated. Chapter 12, Section 9(b)(iii)(C)(III) requires that the screen be installed so that it is submerged at all times while the well is pumping. Variances are frequently granted to these regulatory requirements, but must be requested as part of the permit application.

4. Two monitoring wells are proposed for construction. Monitor wells are normally screened at the interval where the unconfined water table is expected to occur or specifically constructed to sample for a specific condition at some other depth in the aquifer. The logic of the construction of the proposed monitoring wells needs to be provided. If they are intended to sample the productive strata expected to occur at a depth between 60-80 feet, then perhaps the grout seal should be extended to just above the producing strata.

5. Chapter 12 requires the preparation and submittal of an operating and maintenance manual. The O&M manual for the producing well should logically be submitted at the time the pump is installed. However, the equivalent of an O&M manual for the monitoring wells should be submitted. This manual should include a suggested testing regimen. The monitoring wells should be immediately useful for well head protection for the existing well field.

LBH/bb/92854.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-447
SPECIAL CONDITIONS

Hudson Sewer Extension, Oklahoma Ave. to Fourth Street

This permit hereby authorizes the applicant:

Town of Hudson
P.O. 56
Hudson, WY 82515

to construct approximately 210 l.f. of new 8" PVC sewer main according to the procedures and conditions of application number 99-447. The facility is located in NW1/4 Sec.21, T24N, R98W in the county of Fremont, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Jeff Hermansky, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

11-9-99
Date of Issuance

JH/bp
b/92852.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-447

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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.

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

N/A

VI. Documentation of Statement of Basis.

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

---

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

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 \ performed by Jeff Hermansky, Northwest District Supervisor, and completed on November 3, 1999. 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."

JCH/bb/92852.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-448R
SPECIAL CONDITIONS

Ohio to Illinois, Phase I Waterline Replacement

This permit hereby authorizes the applicant:

Town of Hudson
P.O. Box 56
Hudson, WY 82515

to construct about 735 feet of 6 inch PVC waterline and fittings according to the procedures and conditions of application number 99-448R. The facility is located in NE ¼ Section 12, T2S, R2E Wind River Meridian in the county of Fremont, in the State of Wyoming. This permit shall be effective for a period of 3 years from the date of issuance of this permit.

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

Granting this permit does not imply that the Wyoming DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational quirements. 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 (WQD), to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance, or non-compliance with any rules, regulations, standards, permits or orders.

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 4 The applicant will notify the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 4 The applicant will provide immediate oral and/or written notice to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

3-7-00
Date of Issuance

JCH/lb
b/00263.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-448R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. No

B. Chapter XII. Yes

III. Basis for issuing permit.

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

Yes

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.

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

N/A

VI. Documentation of Statement of Basis.

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

---

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

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 w performed by Jeff Hermansky, Northwest District Engineering Supervisor, and completed on February 1, 2000. 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."

JCH/bb/00263.ltr

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 99-449R
SPECIAL CONDITIONS

Meeteetse Water Treatment Plant

This permit hereby authorizes the applicant:

Town of Meeteetse
910 Park Ave
Meeteetse, WY 82433

to construct a raw water pump station and transmission line, membrane microfiltration water treatment plant, finished water transmission line, septic tank/leach field, and new fire hydrants according to the procedures and conditions of application number 99-449R. The facility is located in SE ¼ NE ¼ Section 28, Section 27, Section 22, T48N, R101W and Section 4, T48N, R100W in the county of Park, in the State of Wyoming. This permit shall be effective for a period of 3 years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Jeff Hermansky, Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1 of 7 The applicant will notify the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.

2 of 7 The applicant will provide immediate oral and/or written notice to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

3 of 7 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 7 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 7 An Operations and Maintenance (O & M) Manual is required. The Manual must be in compliance w Chapter XII, Section 16, of the Water Quality Rules and Regulations.

6 of 7 The O & M Manual must include provisions for delivery of supplemental water to the treatment plant in the event the toe-drain flow falls to less than the design demand.

7 of 7 At a minimum, on a monthly basis, the town must monitor and record the flow in the toe-drain, pH, turbidity, temperature, and TOC. The reservoir pool elevation must be recorded the same date the toe-drain flow is measured.

AUTHORIZED BY:

Gary Beach
Administrator
Water Quality Division

Dennis Hemmer
Director
Department of Environmental Quality

2-23-00
Date of Issuance

JCH/lb
b/00455.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 99-449R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. Yes

III. Basis for issuing permit.

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.

Yes. Membrane microfiltration is a water treatment technology that has been perfected since the adoption of Chapter XII. The pilot plant and data from comparable full scale plants demonstrates the acceptability of the design.

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

No

IV. Facilities not specifically covered by regulations.

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III[1].

N/A

VII. Documentation of Statement of Basis.

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

---

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

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 Jeff Hermansky, Northwest District Engineering Supervisor, and completed on February 17, 2000. 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."

JCH/bb/00455.ltr

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Hulett Wastewater Injection System

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

GEOLOGIST: Sue Ann Spencer, P.G. 238
Weston Engineering, Inc.
P.O. Box 6037
Laramie, WY 82073
(307) 745-6118

APPLICANT: Town of Hulett
P.O. Box 278
Hulett, WY 82720
(307) 467-5771

WATER QUALITY DIVISION REFERENCE NUMBER: UIC 99-450

REVIEWING ENGINEER: ROBERT F. LUCHT, P.E. & P.G.

DATE OF REVIEW: October 26, 1999

1. Figure 3, the Geological Cross Sections shows that the monitoring wells on site are all completed, not in the alluvium, but rather they are completed in the Spearfish Formation. Actual well logs for monitor wells 1 and 7 indicate that those two wells are screened in the bottom few feet of alluvium. All other wells are screened entirely within the Spearfish Formation. Estimates of the injectivity of these wells were done from monitor well 1 which is clearly completed with four feet open to the alluvium and five feet open to the Spearfish Formation. How can one be sure that the eight feet of alluvium available at the point of the proposed injection wells will actually accept the large quantities of water to be injected, when the only test work for the alluvium is in monitor well 1 which is located several hundred feet from the actual proposed injection wells and is open to both the alluvium and the Spearfish Formation? The site of the proposed injection wells is best shown by the lithology found in monitor well 8 which shows only 8 feet of alluvium.

2. It appears that the actual receiver for treated effluent in this case is The Spearfish Formation and not the alluvium. While the alluvium appears to recharge the Spearfish Formation, it is not clear that the alluvium can transmit large quantities of water over areas where the

alluvium is very thin. Spearfish Formation is described as red shales, gypsum beds, and siltstones with occasional fine sandstone beds. This description does not describe a formation which can accept large quantities of water with any dependability.

3. Conceptually, the wastewater in the final lagoon will be allowed to infiltrate the alluvium under atmospheric pressure. The sidewall area of the bottom four feet of this cell is 1850 square feet, all of it open to allow infiltration under atmospheric pressure. The concept advanced by this application is that only water which has failed to infiltrate into the sidewalls of the final lagoon will be available to be infiltrated in a well. If the water has not already infiltrated in the 1850 square feet of open area, what reason is there to believe it will infiltrate in the available area in eight injection wells, which total less than two square feet per well? In other words, there is a question of whether the injection wells will ever be needed at all on the one hand, but if they are, the fact that water is even available for injection calls into question whether these wells can accept the flow.

4. The groundwater study provided uses a radial waterflood assumption to determine the area of review. This assumption is made for deep disposal wells where the available information is limited, but is not appropriate for a discharge to a Class V well which discharges directly into a useable aquifer. Chapter 3, Section 15, and Chapter 11, Section 35(a)(iii) require that the groundwater study be used to determine safe separation distances for injection facilities over 10,000 gallons per day. Normally this requires that an actual groundwater model be run. The model selected must take into account, the existing groundwater gradient, the mounding of the groundwater in the vicinity of the injection and any affect on the groundwater due to seasonal fluctuations in river stage. This model must also show that the groundwater flow direction is not toward the existing water supply wells in the area, or quantify the effect on those wells caused by the operation of the injection wells. This study must also differentiate between the Spearfish Formation and the alluvium or show that these two formations act as one aquifer.

5. All UIC Permits must have a point of compliance. The point of compliance may be either the point of injection or a down gradient monitor well, or both. In this case, the applicant has proposed to monitor the water quality at both the treated water at the end of the aerated lagoon system and the monitor well #1, 7, 8, and the Anderson Well. This is consistent with other permits which authorize injection of treated wastewater.

6. The proposed injection wells are very close to the un-lined final cell of the lagoon. It appears that these wells may be within the area which would be saturated with water after the lagoon is constructed. Please provide calculations which show that the injection wells would not already be completely saturated with water and would be able to accept wastewater.

RFL/bb/92804.ltr