

PERMIT TO CONSTRUCT

New
Renewal

PERMIT NO. 01-001
SPECIAL CONDITIONS

Torrington Cemetery Water Storage Tank
PWS: 5600164

This permit hereby authorizes the applicant:

City of Torrington
2042 East "A" Street
Torrington WY 82240

to construct, install or modify an one million gallon potable water ground level steel storage tank according to the procedures and conditions of the application number 01-001. The facility is located in SW 1/4 Section 13 T24N R61W in the county of Goshen, 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 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.

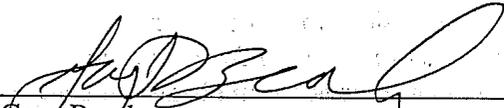
issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

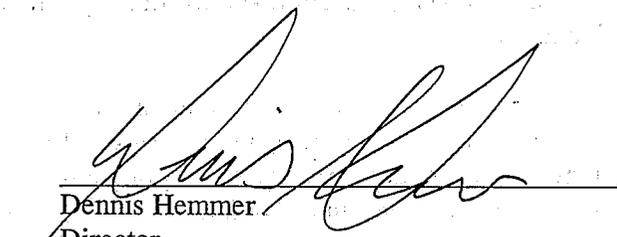
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 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 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 5 An isolation valve needs to be added to the 18" diameter fill line between the cross that connects to the water main and the tap to the fire hydrant adjacent to the new storage tank.
- 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

1-22-1

Date of Issuance

STATEMENT OF BASIS

Permit Number: 01-001

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 17, Chapter 3.

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 3, Wyoming Water Quality Rules and Regulations. This review was performed by Louis B. Harmon, Southeast District Engineering Supervisor, and completed on January 17, 2001. 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/10126.ltr



GERINGER
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES (307) 332-5085	AIR QUALITY (307) 332-6755	LAND QUALITY (307) 332-3047	SOLID & HAZARDOUS WASTE (307) 332-6924	WATER QUALITY (307) 332-3144
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NOTIFICATION OF COVERAGE

February 13, 2001

Bob Volcic
P.O. Box 666
Rock Springs, WY 82901

RE: Volcic Mobile Home Park Public Water Supply, Permit Number: 01-002R
Sweetwater County
PWS # WY5601182

Dear Mr. Volcic:

The above application for coverage under General Permit to Construct the replacement of a water line consisting of approximately 1097 linear feet of 8 inch HDPE along with a vault containing a meter, backflow prevention device and pressure reduction valve accordance with Chapter 3, Section 7 and Chapter 12, Section 14, of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Doyle Conklin, P.E.
District Engineer
Water Quality Division

cc: IPS, Cheyenne
encl: General Permit For Public Water Supply Distribution Systems



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

AIR QUALITY
(307) 672-6457
Fax (307) 674-6050

LAND QUALITY
(307) 672-6488
Fax (307) 672-2213

WATER QUALITY
(307) 672-6457
Fax (307) 674-6050

NOTIFICATION OF COVERAGE

January 8, 2001

Frank Island
P.O. Box 245
Beulah, Wyoming 82712

RE: Residential Septic System, DEQ/WQD Permit Number 01-003
NW/4 Section 32 T53N R60W, Crook County

Dear Mr. Island:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3 and Chapter 11, Part D, of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlines in Part V, Section O. of the general permit.

If you have any questions please contact me at the letterhead telephone number and mailing address.

Yours truly,

Don McKenzie
Water Quality Division

Enclosures: General Permit & Approved Septic System Design Package
xc: Aladdin Construction Company, POB 3010, Aladdin, WY 82710
IPS, Cheyenne

**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

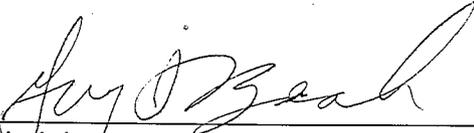
Permit Number: UIC 01-004
Subclass Number: 5C3

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: First Sourced Energy Wyoming, Inc.
2274 Enterprise Drive, Suite 101
Mt. Pleasant, MI 48858
(303) 338-5860

is authorized to operate the Black Panther Injection Well (WYS 005-159) in Section 28, SW $\frac{1}{4}$ NE $\frac{1}{4}$, Township 52 North, Range 75 West, of the 6th Principal Meridian; according to the procedures and conditions of application # 01-004 and other conditions of this permit as contained on pages 1 through 8.

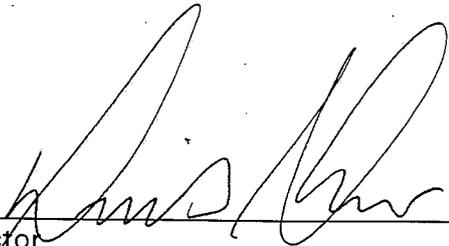
This permit shall become effective on date of issuance.



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

2/21/01

Date



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

2-21-01

Date

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A. DISCHARGE ZONE AND AREA OF REVIEW

1. Discharge Zone:

This injection well is authorized to inject into the Lance and Fox Hills Formations which are found at this location from 1,800 to 5,400 feet below the ground surface.

2. Area of Review:

The facility authorized by this permit is located in:

Township 52 North, Range 75 West, 6th Principal Meridian
 Section 28, SW ¼ NE ¼

The Area of Review around this facility is legally described as:

Township 52 North, Range 75 West, 6th Principal Meridian
 Section 20: SE ¼ SE ¼
 Section 21: S ½
 Section 22: S ½ SW ¼, NW ¼ NE ¼
 Section 27: W ½
 Section 28: ALL
 Section 29: E ½ NE ¼, E ½ SE ¼
 Section 33: N ½ NW ¼, N ½ NE ¼
 Section 34: NW ¼ NW ¼

B. GROUNDWATER CLASSIFICATION

The groundwater in the Lance and Fox Hills Formations is classified as class III under Chapter 8 of Wyoming Water Quality Rules and Regulations (April 9, 1980). This classification was made because:

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

Groundwater of class III shall not be degraded so as to make it unusable as a source of water for this purpose.

C. AUTHORIZED OPERATIONS

1. Description of the Fluid to be Injected:

The permittee is authorized to inject 22,628 barrels per day, (950,400 gallons per day) into the Black Panther Injection well (WYS 005-159), of wastewater as described: Produced water from coal bed methane wells completed in the Canyon, Anderson, Smith, and Lower Smith Coal seams.

The permittee is authorized to inject at a pressure of no more than 1390 psig as measured at the wellhead. The pressure of injection shall be continuously monitored and recorded on a chart recorder unless this pressure is atmospheric pressure or below.

2. Hazardous Waste Not Allowed:

This permit does not allow for the injection of any hazardous waste as defined by Chapter 2, Section 1(c), Wyoming Hazardous Waste Rules and Regulations. 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 permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, 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. At a minimum, the groundwater in the receiving formation shall be sampled prior to the injection of any fluid under this permit. This sample shall be analyzed for the following parameters at a minimum:

- | | | |
|--------------------------|----------------------------|------------------------|
| Potassium | Sodium | Calcium |
| Magnesium | Sulfate | Chloride |
| Carbonate | Bicarbonate | Total Dissolved Solids |
| pH | Conductivity | Specific Gravity |
| Sodium Adsorption Ratio* | Residual Sodium Carbonate* | |

See Chapter 8, Section 2, Wyoming Water Quality Rules and Regulations for a definition of these terms.

E. REQUIREMENTS FOR MONITORING THE DISCHARGE

The permittee shall monitor the quality of the injected fluid on an approved schedule. The following parameters shall be analyzed by the listed methods and reported annually:

SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (UCL) *
Annual from the flow line to the Black Panther injection well	EPA Method 160.1	Total Dissolved Solids	5000
	Calculated from other analysis	Sodium Adsorption Ratio	No Limit
	EPA Method 300	Chloride	2000
	EPA Method 300	Sulfate	3000
	EPA Methods 208.2 or 200.7	Barium	no limit
	Standard Method 9040	pH	must be between 6.5 to 8.5

*All chemical concentrations in this permit are expressed in mg/l unless otherwise noted. pH is always expressed in standard units and conductivity is expressed in mmhos/meter or umhos/cm.

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.

F. RECORDS AND REPORTS

- The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
- The permittee shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.

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 permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee 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.

A written submission shall be provided within 5 days of the time the permittee 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 permittee 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 permittee 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 permittee 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) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:
 - a. Well construction is complete and the permittee has submitted notice of completion of construction to the administrator,
 - b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
 - c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the administrator.

9. The annual report of operations for this/these well(s) shall include the following information:
 - a. Any permit exceedances within the quarter.
 - b. The analytical results for sampling for the injected water and any groundwater sampling results required under Sections D and E.
 - c. Annual reports are due in the Cheyenne office of the Water Quality Division no later than 30 days after the end of each calendar 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

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

1. Violation of the permit.
2. Obtaining a permit by misrepresentation or failure of the discharge well or system.

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

A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit 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 permittee'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.

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

Any permit noncompliance constitutes a violation of the permit.

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

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.

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

The 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.

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.

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

H. ABANDONMENT

The permittee shall notify the administrator at least 30 days before well abandonment. Immediately following the permit cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the director and follow the procedures described in the application. In no case shall the abandonment procedure be any less stringent than the procedure required by the Wyoming Oil and Gas Conservation Commission for abandonment of class II injection wells.

I. 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 permittee 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.

J. SIGNATORIES REQUIREMENT

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

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

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

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.

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.

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/10089.ltr



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

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

March 6, 2001

F.E. Warren Air Force Base
Attn. Patrick D. Wooten, Deputy Chief Environmental Management
300 Vessle Drive
FE Warren AFB, Wyoming 82005

RE: Fire Protection Line to Historic Building 212,

Application No. **01-005**

Dear Mr. Wooten:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

The approval granted under this Notification Of Coverage and the General Permit shall expire on March 6, 2004. Please reference Application Number 01-005 in any future correspondence.

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

Sincerely,

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

RLE/mad/10543.ltr

cc: IPS, Cheyenne
Rodney G. Trees, FE Warren AFB, 300 Vessle Drive, FE Warren AFB, Wyoming 82005

THE STATE



OF WYOMING



JIM GERINGER
GOVERNOR

Department of Environmental Quality

3030 Energy Lane • Suite 200 • Casper, Wyoming 82604

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450

AIR QUALITY DIVISION
(307) 473-3455

WATER QUALITY DIVISION
(307) 473-3465

ABANDONED MINES
(307) 473-3460

NOTIFICATION OF COVERAGE

February 2, 2001

John T. Kuhn Jr., President
Lakeview I&S District
PO Box 1537
Mills, WY 82644

RE: Lakeview Water Supply Project, Permit # 01-006

Dear Mr. Kuhn:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a water distribution system in accordance with Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O. of the general permit.

If you have any questions please contact Dennis Lamb at 3030 Energy Lane, Casper, WY, 82604, (307) 473-3452. Thank you.

Sincerely,

A handwritten signature in cursive script, appearing to read "Dennis Lamb".

Dennis Lamb
Senior Environmental Analyst
DEQ/WQD

cc: IPS, Cheyenne
Barry Venn, CEPI

THE STATE



OF WYOMING

GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

NOTIFICATION OF COVERAGE

February 16, 2001

Vern Heisler, P.E.
City of Riverton
816 North Federal Blvd.
Riverton, WY 82501

RE: Ryan Height Water Improvement Project, Permit Number: 01-007RR
Fremont County
PWS # WY5600047

Dear Mr Heisler:

The above application for coverage under General Permit to Construct the replacement and extension of a water distribution system consisting of approximately 1707 linear feet of 6 inch PVC water main in accordance with Chapter 3, Section 7 and Chapter 12, Section 14, of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Jeff Hermansky, P.E.
District Engineer
Water Quality Division

cc: IPS, Cheyenne

encl: General Permit For Public Water Supply Distribution Systems



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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NOTIFICATION OF COVERAGE (CORRECTED 2/5/01)

January 29, 2001

Mr. Herman Noe, Manager of Engineering
Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82003-1469

RE: 2000 Water Rehabilitation Project Part 2, Application No.01-008R

Dear Mr. Noe:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. 01-008R in any future correspondence.

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

Sincerely,

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

LBH/bb/10287.ltr

cc: IPS Cheyenne



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

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

January 29, 2001

Mr. Herman Noe, Manager of Engineering
Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82003-1469

RE: 2000 Water Rehabilitation Project Part 2, Application No.01-008R

Dear Mr. Noe:

The above application for coverage under General Permit to Construct, Install, Modify, or Operate Extensions to or Modifications of Existing Sewage Collection Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. 01-008R in any future correspondence.

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

Sincerely,

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

LBH/bb/10196.ltr

cc: IPS Cheyenne

THE STATE



OF WYOMING

M GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

NOTIFICATION OF COVERAGE

February 13, 2001

Town of Fannie
P.O. Box 72
Frannie, WY 82423

RE: Town of Frannie Water and Sewer Line Replacement Project, Permit Number: 01-009R
Big Horn and Park Counties
PWS # WY5600210

Dear Mr Wagner:

The above application for coverage under General Permits to Construct the replacement of a water distribution system consisting of approximately 13,000 linear feet of 6 and 8 inch PVC water mains along with the replacement of 7580 linear feet of 8 inch PVC sewer main in accordance with Chapter 3, Section 7 and Chapter 11, Section 9 and Chapter 12, Section 14, of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct the facility(ies) in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

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

Sincerely,

Handwritten signature of Mark Baron in cursive.

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Handwritten signature of Jeff Hermansky in cursive.

Jeff Hermansky, P.E.
District Engineer
Water Quality Division

cc: IPS, Cheyenne

encl: General Permit For Public Water Supply Distribution Systems
General Permit For Sewage Collection Systems

PERMIT TO CONSTRUCT

✓ New
Renewal
Modified

PERMIT NO. 01-010
SPECIAL CONDITIONS

City of Evanston, Water Main and Sewer Main Replacement PWS #5600150

This permit hereby authorizes the applicant:

City of Evanston
1200 Main Street
Evanston, WY 82930

to replace an existing 4-inch water line with approximately 861 feet of 8-inch ductile iron water line, including isolation valves and fire hydrants, and an existing 6-inch tile sewer line with an 8-inch PVC or HDPE sewer line, including manholes according to the procedures and conditions of application number 01-010. The facility is located in SW1/4 Section 21, 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.

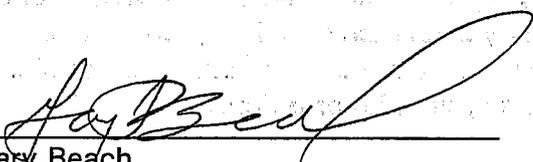
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

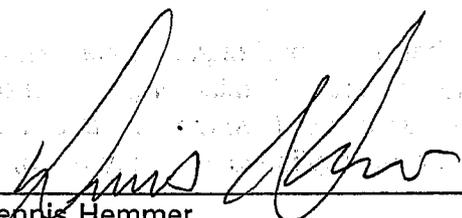
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 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 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 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

1-30-1

Date of Issuance

STATEMENT OF BASIS

General information.

Permit Number: 01-010

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.

Yes

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 11, Section 9 (b) and related policy statements do not address the use of polyethylene pipe for gravity sewer collection systems. "Pipe Bursting," an installation procedure for replacement and/or enlargement of sanitary sewer lines using high density polyethylene (HDPE) pipe, is a new 'trenchless' technology that has not yet been included in policy or the Wyoming Water Quality Rules and Regulations (WWQRR).

B. Briefly state the basis for the deviation.

Present policy allows the use of polyethylene pipe for sanitary sewer force mains. The use of HDPE pipe for gravity sewer mains has not been approved because it has not been shown that it can be laid straight between manholes as required by Chapter 11 of the WWQRR. "Pipe bursting" provides a method by which this can be done while meeting all other Chapter 11 requirements. Based upon data obtained from other full scale comparable applications, this method of replacing sewer lines appears to be an acceptable design. If it is later discovered that failures occur in lines replaced using this technology and/or design, the lines can be repaired or replaced using conventional trenching methods and approved pipe materials.

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

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3¹.

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 Conklin, SW District Engineer, and completed on January 25, 2001. 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/10185.ltr

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 17.



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

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

January 17, 2001

Mr. Herman Noe, Manager of Engineering
Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82003-1469

RE: Grobet USA Waterline Extension, Application No.01-011

Dear Mr. Noe:

The above application for coverage under General Permit to Construct, Install, Modify, or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No.01-011 in any future correspondence.

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

Sincerely,

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

LBH/bb/10129.ltr

cc: IPS, Cheyenne

James Murphy, AVI pc
2035 Westland Road
Cheyenne WY 82001

PERMIT TO CONSTRUCT

— New
Renewal
Modified

PERMIT NO. 01-013
SPECIAL CONDITIONS

FORT CASPER AREA PHASE I IMPROVEMENTS PWS NO. 5600009

This permit hereby authorizes the applicant:

City of Casper
200 North David
Casper, WY 82601

to construct, install and replace water lines, replace and install sanitary sewer lines and manholes, install storm sewer and manholes, and associated improvements according to the procedures and conditions of the application numbers 01-013. The facility is located in the SE/4 of Section 7, SW/4 of Section 8, NW/4 of Section 17, and the NE/4 of Section 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.

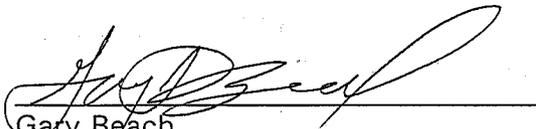
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

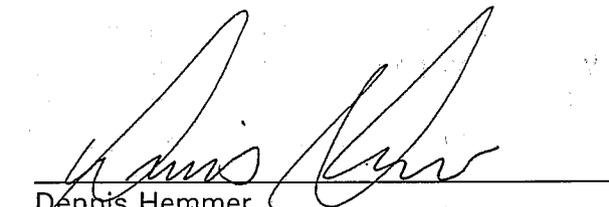
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 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



Dennis Hemmer
Director
Department of Environmental Quality

2-16-01

Date of Issuance

JDL/02/14/01
b/10387.ltr

Enclosures: Construction Notice Post Card, Certificate of Completion and Statement of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 01-013

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

A. Chapter 11 Yes

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 17, 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 17 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

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 17.

- 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 District Water & Wastewater Supervisor, and completed on February 14, 2001. 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/10387.ltr

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 01-014
SPECIAL CONDITIONS
REF/PERMIT NO. 88-322, 90-222

Fort Steele Rest Area WTP and WWTF
PWS 5600953

This permit hereby authorizes the applicant:

Wyoming Department of Transportation
5300 Bishop Blvd
Cheyenne WY 82009-3340

to construct, install or modify a membrane microfiltration water treatment and a non-discharging aerated lagoon and wetland waste treatment system according to the procedures and conditions of the application number 01-014. The facility is located in NE 1/4 Section 35 T21N R85 W in the county of Carbon, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by 1 June 2005.

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:

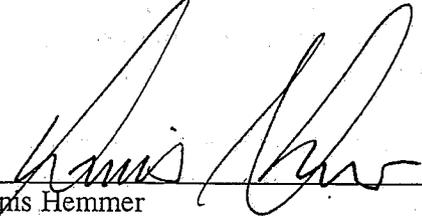
- 1 of 5 The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 5 Chapter 12, Section 13(c)(ii) requires that hydropneumatic systems have a gross tank volume of at least ten times the pump capacity in gpm. Consequently, the hydropneumatic tank volume of the system needs to be increased to a minimum of 250 gallons.
- 3 of 5 Instead of adding a second membrane liner on top of the clay liner for the lagoon leak detection system, a monitor well placed between 15 and 30 feet from the edge of the lagoon would be acceptable. The monitor well is to be used to compare the ground water level to the lowest point in the leak detection system. If the water level in the monitor well is at or above the low point in the leak detection system, the leak detection system readings are temporarily unreliable.
- 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

6-11-02

Date of Issuance

STATEMENT OF BASIS

Permit Number: 01-014

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, the microfiltration water treatment system will be installed in accordance with the recommendations of an established manufacturer with a history of successful installations in the Rocky Mountain region.

IV. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.

YES

V. If Section 17 of Chapter 3 is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

Facility will not allow a discharge to groundwater. Briefly describe: The leak detection and recovery system will immediately identify a failure of the primary liner and allow return of the leakage to the system before it has a chance to percolate through the secondary liner.

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 June 10, 2002. 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 Building 4 West
Cheyenne, Wyoming 82002

PROJECT: Fort Steele Rest Area WTP and WWTF

ENGINEER: Sear Brown Group

APPLICANT: Wyoming Department of Transportation

WATER QUALITY DIVISION REFERENCE NUMBER: 01-014RRR

REVIEWING ENGINEER: Louis B. Harmon

DATE OF REVIEW: May 1, 2002



ACTION: NOT AUTHORIZED FOR CONSTRUCTION. In accordance with Section 9 (a)(ii), Chapter 3, 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 said Section 9. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. Three issues remain with the waste water treatment facility plans:
 - a. The design report and project manual are confusing about the elevation of the ground water. The Terracon report states that the ground water was approximately 10 ft below the surface in September of 2000 when the two test borings were completed. The Terracon report evidently uses a USGS datum for elevations that is 14 ft higher than the Sear Brown datum. Yet the Sear Brown datum estimate of groundwater as being at elevation of 6482 would seem to put the water table at least 16 ft below the surface. The concern is whether the ground water will impact the leak detection system under the aerated lagoon.
 - b. Chapter 11 requires that the invert of the influent manhole be at least 0.5 feet higher than operating level of the lagoon. The plans show 0.25 feet. This detail appears on Sheet WW-7, MH-4.
 - c. Although the regulation does not have any requirements for piping that connects the lagoon to wetlands or the influent pipe, the 4" pipe specified is generally considered vulnerable to plugging. A minimum pipe diameter of 6" is recommended.

2. The following items associated with the water treatment process and distribution piping need to be addressed:
 - a. Details need to be provided to enable the Water Quality Division to determine that the clear well meets the requirements for in ground storage of finished water as described in Chapter 12, Section 13(ii).
 - b. Information is not available in the design report or on the plans to determine the size of the existing pump P-2, the size of the hydro-pneumatic tanks, and whether either is adequate.
 - c. Backflow prevention is shown on at least three drawings, never in the same place. The employee housing service should be isolated from the rest of the distribution system by the appropriate backflow device.
 - d. The drain line from the CIP and backwash process must have an air gap to isolate the backwash drain from the sewer system. The eye wash station is shown as being connected to the water line from the MMF unit to the clear well. Much of the time it will not be pressured. The eye wash station should be connected to the house water.
3. Sear Brown should make a commitment in writing to provide an O&M manual for both the WWTF and the water treatment plant. According to Chapters 11 and 12, the O&M manual should be submitted to the Water Quality Division by the 50% completion point of the project. I would suggest that an outline of the O&M manual be submitted at the 50% completion mark and the finished O&M manual be submitted after the start-up phase of the plants.

LBH/bb/2-1460.ltr

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

Herschler Building 4 West
Cheyenne, Wyoming 82002

PROJECT: WYDOT Fort Steele Rest Area Wastewater Treatment Facility Improvement

ENGINEER: Sear Brown Group

APPLICANT: Wyoming Department of Transportation

WATER QUALITY DIVISION REFERENCE NUMBER: 01-014R

REVIEWING ENGINEER: Louis B. Harmon

DATE OF REVIEW: February 27, 2001



ACTION: **NOT AUTHORIZED FOR CONSTRUCTION.** In accordance with Section 9 (a)(ii), Chapter 3, 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 said Section 9. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. The settling tank/septic tank as presently designed is, as a matter of practicality, unserviceable. In order to simplify maintenance procedures and to minimize maintenance costs, the septic tank should be designed so that the depth to the bottom of the tank from the ground surface does not exceed 16 feet. It is desirable that the depth does not exceed 12 feet.
2. The supporting documentation to demonstrate that the salinity issues will not immediately impact the wetlands has been reviewed. Dr. Richard's information has been very helpful. There remain significant maintenance issues for the wetlands which will be discussed in Paragraph 4 on the operation and maintenance manual.
3. The plans and specifications must be modified to show the construction of the Leak Collection and Recovery System.

4. An operation and maintenance manual is required by Chapter 11. Because of the issues related to the disposal of the solids removed from the settling tank and long term operation of the wetlands, the operation and maintenance manual must be approved before construction of the facility begins.
 - a. Specifically the operation and maintenance manual must include provisions for disposal of the septage removed from the septic tank. Specifically, this includes a written agreement with a municipal wastewater treatment system to receive the septage.
 - b. It appears that harvesting the wetlands will be an essential to the long term success of the wastewater treatment system. The methods described in the operation and maintenance manual for harvesting the vegetative growth should be feasible and economically realistic.

LBH/bb/10506.ltr

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

Herschler Building 4 West
Cheyenne, Wyoming 82002

PROJECT: WYDOT Fort Steele Rest Area Wastewater Treatment Facility Improvement

ENGINEER: Sear Brown Group

APPLICANT: Wyoming Department of Transportation

WATER QUALITY DIVISION REFERENCE NUMBER: 01-014

REVIEWING ENGINEER: Louis B. Harmon

DATE OF REVIEW: January 29, 2001



ACTION: NOT AUTHORIZED FOR CONSTRUCTION. In accordance with Section 9 (a)(ii), Chapter 3, 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 said Section 9. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. The design report does not provide information about the ultimate fate of the salts and nutrients that are part of the influent flow. A quick calculation of the salt loading due to the dissolved solids in the source water at a mean value of 170 ppm suggests that 3200 pounds a year of salts will be deposited in Wetland No. 1. In ten years this adds up to 16 tons of salt applied to 1.47 acres. This amount of salt would be expected to have a pronounced negative salinity impact on the wet lands vegetation. Human waste adds additional dissolved solids, especially bicarbonates, to the waste water stream.
2. The septic tank is designed to be cleaned frequently. Conventional septic tank cleaning techniques involve the use of vacuum trucks. The tank, as designed, is too deep to be vacuum cleaned. What cleaning technique will be used? Specific arrangements must be completed for disposal of the solids and scum from the septic tank and included in the design information.
3. Some method must be included in the design to assure the integrity of the lagoon liner throughout the life of the facility. Recently many facilities have been constructed using the Leak Collection and Recovery Systems (RCRS) developed in the mining industries. The RCRS type of construction can be inexpensive on a site with a ready source of very low permeability soils, such as this one.

4. It is not clear if the yard hydrant shown on the plans is connected to the potable water system or to a non-potable irrigation system. If connected to the potable water system, it is a cross connection hazard. If connected to the non-potable irrigation system then it must be labeled and marked as non-potable.
5. There is no discussion of the management of the solids discharged with the backwash from the water treatment plant on site.

LBH/bb/10216.ltr



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building 122 West 25th Street Cheyenne, Wyoming 82002

NOTIFICATION OF COVERAGE

ADMIN/OUTREACH (307) 777-7758 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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February 16, 2001

Lori and Donald Britton
P.O. Box 981
Wheatland, Wyoming 82201

RE: Britton Residential Septic System, Application No. **01-015** Location: SE 1/4, Section 32, Township 24N, Range 68W, Platte County

Dear Mr. and Mrs. Britton:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

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

The approval granted under this Notification Of Coverage and the General Permit shall expire on February 16, 2003. Please reference Application Number **01-015** in any future correspondence.

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

Sincerely,

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

RLE/mad/10432.Itr

cc: IPS, Cheyenne

Enclosures: GENERAL PERMIT - Small Wastewater Facility

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Britton Residential Septic System

ENGINEER: None

APPLICANT: The Britton's
600 Grange Road
Wheatland, Wyoming 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 01-015

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

DATE OF REVIEW: January 23, 2001

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. Please complete, sign, and return the yellow application form included with this review notice. Somehow, this form was not included with the application package that was submitted. Your application cannot be processed or approved until this signed application form is received.

RLE/bb/10169.ltr

Enclosure: Blank Application Form

**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 01-016
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: Painter Estates Homeowners Association
2124 Gail Lane
Cody, Wyoming 82414
ATTN: Robert Senitte, President
(307) 587-9209

is authorized to operate the Painter Estates Wastewater Facility (UIC facility: WYS 029-067) located in NW¼NW¼, Section 4, Township 56 North, Range 106 West, Sixth Principal Meridian according to the procedures and conditions of application # 01-016 and other conditions of this permit as contained on pages 1 through 9.

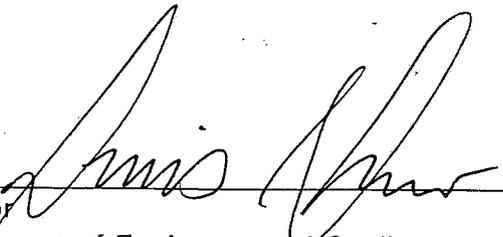
This permit shall become effective on date of issuance.



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

9/18/01

Date



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

9-21-01

Date

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A. DISCHARGE ZONE AND AREA OF REVIEW

1. **Discharge Zone:**
This injection facility (sanitary leachfield) is authorized to inject into the Alluvial Aquifer along the Clark's Fork of the Yellowstone River which is found at this location from zero to 80 feet below the ground surface.

2. **Area of Review:**
The facility authorized by this permit is located in:
Township 56 North, Range 106 West, 6th Principle Meridian
Section 4: NW ¼ NW ¼

The Area of Review around this facility is legally described as:
Township 56 North, Range 106 West, 6th Principle Meridian
Section 4: NW ¼ NW ¼

B. GROUND WATER CLASSIFICATION

1. The groundwater in the Alluvial Aquifer along the Clark's Fork of the Yellowstone River 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 ground water in this formation meets all of the quality standards set forth in Chapter 8 for class I water;

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

2. Ground water 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 Painter Estates is authorized to inject 167 barrels per day, (7,000 gallons per day) of wastewater as described: Sanitary waste only from a mobile home park. The waste to be disposed of is to be treated first in a septic tank. There are two independent systems covered by this permit, one with a capacity of 2,800 gallons per day and a second one with a capacity of 4,200 gallons per day. 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 CAR 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 GROUNDWATER OF THE STATE

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The Painter Estates 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)*
Two observation wells shown on the plans	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.

- 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 Painter Estates 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 Painter Estates 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, after the first two years of operation, approve a more or less stringent monitoring schedule.

F. RECORDS AND REPORTS

- The Painter Estates 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.
- The Painter Estates 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.
- 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.
- The Painter Estates 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 ground water 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 Painter Estates 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 Painter Estates 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 Painter Estates 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 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 Painter Estates'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 Painter Estates 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 Painter Estates 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 Painter Estates 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

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 Painter Estates 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 Painter Estates 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. The Painter Estates must notify Ken Markert, Park County Planning Coordinator, 1002 Sheridan Avenue, Cody, WY 82414 (307) 527-8540 at least three days prior to installation to arrange for an inspection of this system.
3. This permit covers a replacement system for an existing failed system. Construction on the replacement system must commence within 60 days of the issue date for this permit.

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."

RFL/mad/12400-Itr



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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September 18, 2001

Ken Markert
Park County Planning Coordinator
1002 Sheridan Avenue
Cody, WY 82414

RE: Painter Estates Septic System
Permit UIC 01-016, class V
Park County, WY

Dear Mr. Markert:

The Painter Estates Home Owners Association of Park County has resolved all of the issues pertaining to their wastewater system with 7,000 gallons per day capacity. This system failed in 1999 and is the one that your office caught being installed without a permit. The permit has been written to cover two septic systems, the one installed without a permit in 1999 and an additional leachfield to provide the required capacity. Enclosed please find one copy each of the Final Application and the Permit.

I would appreciate it if you would verify that this system is installed according to the authorized plans. Section I2 of this permit requires the Homeowners to give your office three days notice before installing this system to allow you to inspect.

Sincerely,

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

RFL/mad/12399-ltr

Enclosure: Application, Permit



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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September 18, 2001

Bob Senitte
Painter Estates Home Owners Association
2124 Gail Lane
Cody, WY 82414

RE: Painter Estates Septic System
UIC Facility: WYS 029-067
Park County, Wyoming

Dear Mr. Senitte:

Attached please find one copy of the final permit UIC 01-016 for this facility. This permit allows you to construct the additional required capacity for your leachfield, and indeed you must construct this capacity. This permit requires monitoring of your system in the spring and fall by taking water samples from the septic tanks and one sample from each of the two monitoring wells. Sections D and E of the permit cover these requirements. Also enclosed please find a reporting form for these results.

Sincerely,

Robert Licht, P.E. & P.G.
UIC Program Supervisor
Water Quality Division

RFL/mad/12401-ltr

Enclosure: Chapter 16 UIC Permit Application, Chapters 3, 8, 11 and 16

xc: Jeff Hermanski, Lander Office

Kenneth Markert, Planning Coordinator, Park County, 1002 Sheridan Avenue, Cody, WY
82414

STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND INJECTION CONTROL PROGRAM
REPORTING FORM FOR CLASS 5 SEPTIC SYSTEM

This form shall accompany the submission of any report, documentation or data required by the UIC permit on a class V injection well. date: ___/___/___

Company Name:	Painter Estates Homeowners Association		
phone number	(307) 587-9209		
Company Address:	P.O. Box 2967		
	Cody, WY 82414		
Facility Name:	Painter Estates Septic System		
County:	Park		
Permit number:	UIC 01-016		
Location:	T 56 N,	R 106 W,	Sec. 4 NW NW
Type of Report:		Annual Due Dec. 1 each year ___	Notice of completion date comp. ___/___/___

Effluent Quality: (All parameters to be reported in mg/l)
Date Sampled: ___/___/___ Laboratory: _____ Lab #: _____

Parameter	Septic Tank Effluent	Permit Upper Control Limit
Ammonia as N		150
Nitrate as N		15.0
Total Phenols by EPA Method 420.1		.250

Groundwater Quality:
Date Sampled: ___/___/___ Laboratory: _____ Lab #: _____

Parameter	Concentration In Monitor Wells		Permit Standard
WELL NUMBER:	MW-1	MW-2	
Casing Elevation			
Static Water Level			
SWL Elev.			



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

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

March 29, 2001

South Cheyenne Water & Sewer District
Attn. Cliff Maloney, Operations Manager
215 East Allison Road
Cheyenne, Wyoming 82007

RE: College Drive Utility Relocations - 2001, Application No. **01-017**

Dear Mr. Maloney:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and Existing Sewage Collection Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permits, the condition listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific condition also applies:

The segments of sewer with slopes less than 0.40% shall be installed in accordance with the conditions of the Water Quality Division "Flat Grade Sewers Policy" dated January 21, 1998. Policy enclosed.

Permit Number 01-017
March 29, 2001
Page 2

The approval granted under this Notification Of Coverage and the General Permit shall expire on March 29, 2003. Please reference Application Number 01-017 in any future correspondence.

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

Sincerely,



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

RLE/mad/10690.ltr

Enclosures: GENERAL PERMIT - Extensions/Modifications of Existing Sewage Collection
Systems
GENERAL PERMIT - Extensions/Modifications of Existing Public Water Supply
Distribution Systems
Flat Grade Sewers Policy

cc: IPS, Cheyenne
James W. Johnson, Johnson Engineering Associates, 110 Superior Ct., Laramie, Wyoming 82072

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: College Drive Utility Relocations

ENGINEER: James W. Johnson
Johnson Engineering Associates
110 Superior Ct.
Laramie, Wyoming 82072

APPLICANT: South Cheyenne Water & Sewer District
Attn/Cliff Maloney, Operations Manager
215 East Allison Road
Cheyenne, Wyoming 82007

WATER QUALITY DIVISION REFERENCE NUMBER: 01-017

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

DATE OF REVIEW: March 12, 2001

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. Minimum Sewer Slopes Not Achieved - The slope of the new 300mm (12 inch) sewer main from Manhole 15 to Manhole 8 is only 0.20%. The minimum required by the regulations for a 12" main is 0.22%. You can either adjust the invert elevations to achieve this slope or you can request a variance from the minimum slope requirement which could be granted if you are willing to meet the applicable requirements of the Water Quality Division (WQD) "Flat Grade Sewer Variance Policy" which is attached for your review.

2. Water/Sewer Main Crossings - Minimum Vertical Clearances Not Achieved - At several locations throughout the project either a water main crosses under a sewer main or a water main crosses only a few inches above a sewer main. The minimum vertical clearance to not need secondary protection is the water main 18 inches above the sewer main. The locations are:

- Sheet U7 at Station 5+063
- Sheet U17 at approximately 1 foot south of the new College Drive CL
- Sheet U19 at approx. 5 feet north of College Drive CL
- Sheet U19 at the new College Drive CL

Secondary protection can be achieved by either:

- Using water grade pipe for the sewer 10 feet on either side of the crossing,
- Sleeving either the water or sewer for 10 feet on either side of the crossing,
- Using flow fill to encase the crossing area.

Please provide details for each of these water/sewer crossings.

3. New Fire Hydrants Pressure Analysis - The Engineering Design Report (EDR) says these hydrants are being installed mainly to provide flushing after the new water main segments are installed. However, the hydrants will remain as useable hydrants so a brief analysis of the residual pressure under fire flow conditions at each location is needed.

RLE/bb/10575.ltr

Enclosure: WQD Flat Grade Sewer Variance Policy

I N T E R
O F F I C E

MEMO

To: DEQ/WQD District Engineers, SPO Section
From: Jeff Hermansky *JCH*
Larry Robinson *LR*
Subject: Flat Grade Sewers Variance, Policy 13.9.13
Date: January 21, 1998

RECEIVED

JAN 23 1998

WATER QUALITY DIVISION
WYOMING

BACKGROUND

Flat grade sewers are any sewers that are installed at less than the minimum slopes listed in Chapter XI, Part B, Section 9 of the Water Quality Rules and Regulations. The WQD has had numerous requests for a variance to the minimum slopes listed. These requests have been either for replacement of existing sewer lines already installed at less than minimum slopes, or new lines to be installed to avoid the construction of a lift station. The variances have been granted on a case by case basis. This policy has been developed to provide for the approval of flat grade sewers that meet the design and construction conditions listed.

BASIS for the VARIANCE

There is a substantial amount of data available to support the successful use of flatter slopes than conventional standards allow. The Small Flows Clearing House in West Virginia distributes "Case Study Number 11 - Erickson, Nebraska, Flat Grade Sewers." This study shows that in 70 to 80 years of experience with flat grade sewers in Nebraska, they have been observed to perform well and have not required noticeably more maintenance than conventional sewers. Where flat grade sewers have been used, the operation and maintenance of many lift stations have been avoided. This reduces overall O&M costs for a community significantly.

Experience in Worland, Wyoming supports the conclusions of the Erickson Nebraska study. The Worland City Engineer and Public Works Director have requested a number of variances to allow for flat grade sewers. Worland has a significant amount of flat grade sewers in the older parts of town and are very happy with the performance.

The Chapter XI minimum slopes appear to have been established for clay pipe flowing

full at a velocity greater than 2 ft/sec. The velocity is determined using the Manning Equation with a "n" value of 0.013. As we all know, today's gravity sewers are almost all constructed using PVC pipe. PVC is much smoother than clay and has a "n" value of 0.010 or lower.

When using a "n" value of 0.010 and a slope of .002 ft/ft, the calculated flow velocity for 8 inch and larger PVC pipes is 2.0 ft/sec or greater. A 6 inch PVC pipe requires at least a .003 ft/ft slope to achieve a design velocity of 2 ft/sec.

VARIANCE POLICY

This policy grants approval of flat grade sewers that meet the following conditions:

- 1) The minimum slope permitted for 6 inch pipe will be .003 ft/ft. The minimum slope permitted for 8 inch and larger pipe will be .002 ft/ft or the minimums listed in the Chapter XI, Part B, Section 9, regulations.
- 2) The gravity sewer main must be constructed using either ASTM D3034 SDR 35 PVC pipe or ASTM D 3035 Polyethylene pipe.
- 3) The pipe must be installed using a sewer laser to ensure an accurate and uniform grade.
- 4) The pipe must be bedded with Type 1 bedding material using Type A Trench Backfill methods or cement treated fill in accordance with the Wyoming Public Works Standard Specifications, Section 02225.
- 5) A letter must be provided by the municipality or homeowners association that will operate and maintain the flat grade sewer, indicating their approval of the design.
- 6) Flat grade sewers are granted a variance under this policy only to eliminate the need for a lift station or to replace existing sewers installed at less than minimum regulatory grades.
- 7) All flat grade sewers should be installed under the supervision of a full time inspector.

Any variance requests not in compliance with this policy must be handled on a case by case basis.



—IM GERINGER
GOVERNOR

2-8-01
B.

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES (307) 332-5085	AIR QUALITY (307) 332-6755	LAND QUALITY (307) 332-3047	SOLID & HAZARDOUS WASTE (307) 332-6924	WATER QUALITY (307) 332-3144
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NOTIFICATION OF COVERAGE

February 7, 2001

Aubrey Daryll Wills
P.O. Box 1158
Longmont, CO 80502

RE: A. Daryll Wills Septic System, Permit Number 01-018R, SE1/4 NW1/4 Section 34, T51N, R93W, Big Horn County

Dear Mr. Wills:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 7 (a)(i) of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the facility(ies) in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Subpart O of the general permit.

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

Sincerely,

Doyle Conklin
SW District Engineer
Water Quality Division

cc: IPS, Cheyenne
William Bridges; Pryor Mountain Engineering; P.O. Box 671; Cowley, WY 82420

encl: Approved design & plans

AS-BUILT
PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 01-019
SPECIAL CONDITIONS

East Snow King Avenue 8 Inch Ductile Iron Water Transmission Line

This permit hereby authorizes the applicant:

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

to have constructed approximately 2100 linear feet of 8 inch ductile iron water main and three fire hydrants under emergency conditions according to the procedures and conditions of application number 01-019. The facility is located in SE 1/4 & SW 1/4, Section 33 & 34, T41N, R116W in the county of Teton, in the State of Wyoming.

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

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

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

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

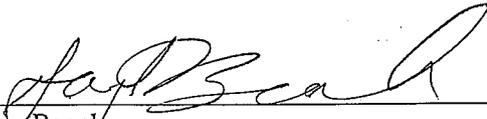
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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

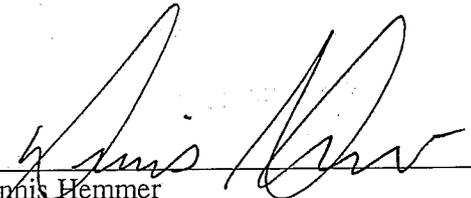
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

1 of 1 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

2-16-01

Date of Issuance

MDB/mad/10414.ltr

STATEMENT OF BASIS

General information.

Permit Number: 00-019

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.

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.

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III¹.

N/A

VI. If Section 17 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.)

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 Mark Baron, Environmental Senior Analyst, and completed on February 15, 2001. 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."

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 17.



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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February 16, 2001

Shawn O'Malley
Town of Jackson
P.O. Box 1687
Jackson, WY 83001

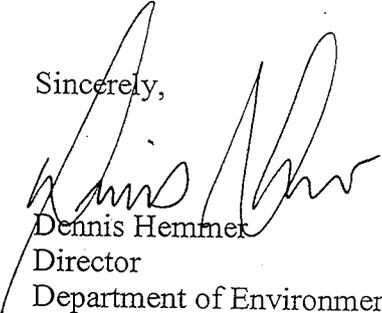
RE: As-Built Permit To Construct, WQD Reference Number 01-019

Dear Mr. O'Malley:

The Department of Environmental Quality/Water Quality Division (DEQ/WQD) has reviewed the above referenced As-Built Application submitted by your engineer, James A. Park. Our review of the information and as-constructed plans submitted to this office indicates that the application meets DEQ/WQD regulations and the enclosed As-Built Permit To Construct is hereby issued. The enclosed permit covers the construction of approximately 2100 linear feet of 8 inch ductile iron water main and three fire hydrants under emergency conditions, which have already been constructed.

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

Sincerely,


Dennis Hemmet
Director
Department of Environmental Quality

DH/mdb/mad/10414.ltr
Enclosure:

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 01-020
SPECIAL CONDITIONS
REF/PERMIT #96-017

City of Laramie Wastewater Treatment Plant Aerobic Digester Blower Replacements

This permit hereby authorizes the applicant:

City of Laramie
406 Ivinson Street
Laramie, WY 82070

to construct, install or modify aerobic digester blower replacements according to the procedures and conditions of the application number 01-020. The facility is located in south half of Section 20, Township 16 North, Range 73 West in the county of Albany, 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, 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: 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.

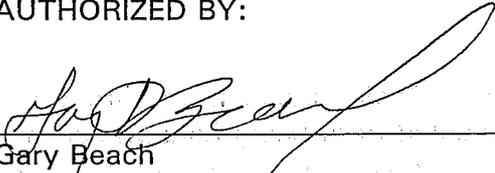
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

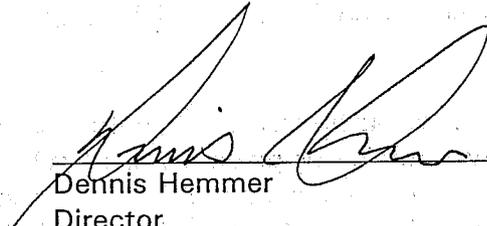
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 1 of 4 The applicant will notify the 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 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 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

4-18-01

Date of Issuance

BDM/PBS/mad/10790.ltr
cc: CWSRF Files

STATEMENT OF BASIS

I. General information.

A. Permit Number: 01-020

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 III¹. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

Not Applicable

- VI. Not Applicable

- 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 Phillip Stump, Senior Analyst, and completed on April 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."

¹Sediment 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

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

NOTIFICATION OF COVERAGE

May 10, 2001

Clarence Reinhart
P.O. Box 258
Alpine, WY 83128

RE: Nordic Ranches Water System - Divisions 8, 9 & 10, Permit Number 01-021R, NW1/4 & SW 1/4 Section 26, T36N, R119W, Lincoln County - PWS #5601418

Dear Mr. Reinhart:

The above application for coverage under General Permit to Construct, Install, Modify or Operate an Extension to an Existing Water Distribution System in accordance with Chapter 3, Section 7 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the facility(ies) in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Subpart O of the general permit.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Doyle Conklin".

Doyle Conklin
SW District Engineering Supervisor
Water Quality Division

cc: IPS, Cheyenne

encl: Approved Construction Drawings and Specifications
(A copy of the General Permit was previously sent to the Engineer)

PERMIT TO CONSTRUCT

New
Renewal
X Modified

PERMIT NO. 01-022
SPECIAL CONDITIONS
REF/PERMIT NO. 96-270

Wyoming Premium Farms Nursery No. 1 Wastewater Lagoons

This permit hereby authorizes the applicant:

Wyoming Premium Farms, LLC
P.O. Box 457
Wheatland, WY 82201-0457

to revise wastewater lagoon operating standards according to the procedures and conditions of the application number 01-022. The facility is located in Section 16 T23N R66W in the county of Platte, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by September 30, 2002.

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.

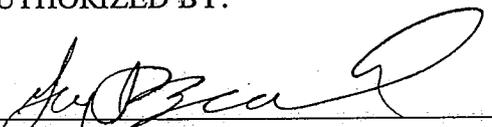
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

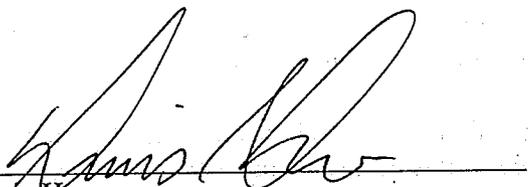
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 4 Condition 11 of 18 of Permit to Construct 96-270 governing nutrient and salt loading of Cell No. 2 shall be replaced by the following conditions:
- a. The ammonia level as determined by the average of four samples, 2 from the working pool, 2 from the permanent pool, shall not be allowed to exceed 1200 ppm in either Cell No. 1 or Cell No. 2 during the period of September 30, 2001 until September 30, 2002. After October 1, 2002, the ammonia level shall not be allowed to exceed 800 ppm in either cell.
 - b. The total dissolved solids concentration (TDS) as determined by the average of four samples, 2 from the working pool, 2 from the permanent pool, shall not be allowed to exceed 7000 ppm in either Cell No. 1 or Cell No. 2 during the period of September 30, 2001 until September 30, 2002. After October 1, 2002, the TDS level shall not be allowed to exceed 6000 ppm in either cell.
 - c. Sampling shall be conducted on a monthly basis. Any time the sample results exceed the limits established above, the results shall be reported to the Water Quality Division within 7 days. A corrective action plan to lower the concentrations below the established limits shall be submitted for Water Quality Division approval within 60 days.
 - d. Quarterly reporting of lagoon water quality test results, lagoon levels, and amounts of liquid wastes removed from each lagoon shall be required until the entire site is in compliance with the final 800 ppm ammonia standard and the 6000 ppm TDS standard. When the site comes into compliance with these standards, quarterly sampling will be allowed, with reporting done on an annual basis.
 - e. If the standards established by this condition are not achieved by September 30, 2002, Wyoming Premium Farms and the Department of Environmental Quality will establish a temporary reduction in the allowable stocking rate of the site. The reduced allowable stocking rate will remain in effect until the standards are achieved.
- 2 of 4 All land application of wastewater shall be conducted in accordance with the conditions of Permit 00-126.
- 3 of 4 A revised Operations and Maintenance Manual that includes the changes in operation made by permitted modifications that have occurred since the original permit 96-270 shall be submitted by March 15, 2002.
- a. The revised O&M manual shall include the format for the temporary quarterly reports and annual report that shall be submitted by June 1 of each operating year.
 - b. An improved spill response plan for emergency response activities shall be added to the O & M manual.
 - c. Detailed procedures for the conditions and methods of operation of the big gun shall be added to the O & M manual.
 - d. The annual report shall include the results of the soil sampling accomplished under Condition 2 and describe the crops planted and nutrient budget for the current growing year for each management parcel.
- 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

8-17-01

Date of Issuance

LBH/mad/12069-ltr

cc: Platte County Commissioners

STATEMENT OF BASIS

- II. Permit Number: 01-022
- III. Application reviewed for compliance with the following regulations.
- A. Chapter XI. YES
- B. Chapter XII. NO
- IV. Basis for issuing permit Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
- V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
- 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 August 10, 2001. 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
X Modified

PERMIT NO. 01-023
SPECIAL CONDITIONS
REF/PERMIT NO. 96-263

WPF Farrowing Unit Site No. 1 Wastewater Lagoons

This permit hereby authorizes the applicant:

Wyoming Premium Farms LLC
P.O. Box 457
Wheatland, WY 82201-0457

to revise the wastewater lagoon operating standards established by Permit 96-263 according to the procedures and conditions of the application number 01-023. The facility is located in Section 15 T26 N R68 W in the county of Platte, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by September 30, 2002.

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.

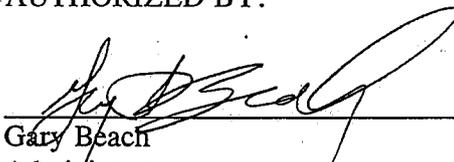
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

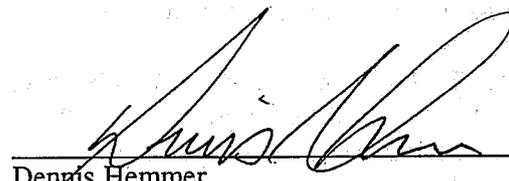
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 4 Condition 11 of 16 of Permit to Construct 95-509 and transfer of ownership Permit 96-263 governing nutrient and salt loading of Cell No. 2 shall be replaced by the following conditions:
- a. The ammonia level as determined by the average of four samples, 2 from the working pool, 2 from the permanent pool, shall not be allowed to exceed 670 ppm in either Cell No. 1 or Cell No. 2 by December 1, 2001.
 - b. The total dissolved solids concentration (TDS) as determined by the average of four samples, 2 from the working pool, 2 from the permanent pool, shall not be allowed to exceed 5000 ppm in either Cell No. 1 or Cell No. 2.
 - c. Sampling shall be conducted on a quarterly basis. Any time the sample results exceed the limits established above, the results shall be reported to the Water Quality Division within 7 days. A corrective action plan to lower the concentrations below the established limits shall be submitted for Water Quality Division approval within 60 days.
 - d. If the standards established by this condition are not maintained or re-established within one year after an excursion, Wyoming Premium Farms and the Department of Environmental Quality will establish a temporary reduction in the allowable stocking rate of the site. The reduced allowable stocking rate will remain in effect until the standards are achieved.
- 2 of 4 All land application of wastewater shall be conducted in accordance with the conditions of Permit 00-084.
- 3 of 4 A revised Operations and Maintenance Manual that includes the changes in operation made by permitted modifications that have occurred since the original permit 95-509 shall be submitted by March 15, 2002.
- a. The annual report that shall be submitted by June 1 of each operating year.
 - b. An improved spill response plan for emergency response activities shall be added to the O & M manual.
 - c. Detailed procedures for the conditions and methods of operation of the big gun shall be added to the O & M manual.
 - d. The annual report shall include the results of the soil sampling accomplished under Condition 2 and describe the crops planted and nutrient budget for the current growing year for each management parcel.
- 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

8-17-01

Date of Issuance

LBH/mad/12070-ltr

cc: Platte County Commissioners

STATEMENT OF BASIS

- II. Permit Number: 01-023
- III. Application reviewed for compliance with the following regulations.
- A. Chapter XI. YES
- B. Chapter XII. YES
- IV. Basis for issuing permit: Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
- V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
- 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 3, Wyoming Water Quality Rules and Regulations. This review was performed by Louis B. Harmon, Southeast District Engineering Supervisor, and completed on August 10, 2001. 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
X Modified

PERMIT NO. 01-024
SPECIAL CONDITIONS
REF/PERMIT NO. 96-437

Wyoming Premium Farms Finisher No. 2 Wastewater Lagoons

This permit hereby authorizes the applicant:

Wyoming Premium Farms, LLC
P.O. Box 457
Wheatland, WY 82201-0457

to revise wastewater lagoon operating standards according to the procedures and conditions of the application number 01-024. The facility is located in Section 36 T25N R67W in the county of Platte, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by September 30, 2002.

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.

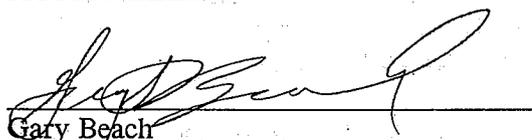
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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:

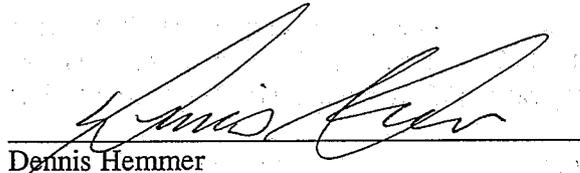
- 1 of 4 Condition 13 of 20 of Permit to Construct 96-437 governing nutrient and salt loading of Cell No. 2 shall be replaced by the following conditions:
- a. The ammonia level as determined by the average of four samples, 2 from the working pool, 2 from the permanent pool, shall not be allowed to exceed 1600 ppm in either Cell No. 1 or Cell No. 2 during the period of December 31, 2001 until September 30, 2002. After October 1, 2002, the ammonia level shall not be allowed to exceed 670 ppm in either cell.
 - b. The total dissolved solids concentration (TDS) as determined by the average of four samples, 2 from the working pool, 2 from the permanent pool, shall not be allowed to exceed 10,000 ppm in either Cell No. 1 or Cell No. 2 during the period of October 30, 2001 until September 30, 2002. After October 1, 2002, the TDS level shall not be allowed to exceed 5000 ppm in either cell.
 - c. Sampling shall be conducted on a monthly basis. Any time the sample results exceed the limits established above, the results shall be reported to the Water Quality Division within 7 days. A corrective action plan to lower the concentrations below the established limits shall be submitted for Water Quality Division approval within 60 days.
 - d. Quarterly reporting of lagoon water quality test results, lagoon levels, and amounts of liquid wastes removed from each lagoon shall be required until the entire site is in compliance with the final 670 ppm ammonia standard and the 5000 ppm TDS standard. When the site comes into compliance with these standards, quarterly sampling will be allowed, with reporting done on an annual basis.
 - e. If the standards established by this condition are not achieved by September 30, 2002, Wyoming Premium Farms and the Department of Environmental Quality will establish a temporary reduction in the allowable stocking rate of the site. The reduced allowable stocking rate will remain in effect until the standards are achieved.
- 2 of 4 All land application of wastewater shall be conducted in accordance with the conditions of Permit 00-85.
- 3 of 4 A revised Operations and Maintenance Manual that includes the changes in operation made by permitted modifications that have occurred since the original permit 96-437 shall be submitted by March 15, 2002.
- a. The revised O&M manual shall include the format for the temporary quarterly reports and annual report that shall be submitted by June 1 of each operating year.
 - b. An improved spill response plan for emergency response activities shall be added to the O & M manual.
 - c. Detailed procedures for the liquid waste pumping, piping, blending with well water, and operation of the center pivot sprinklers shall be added to the O & M manual..
 - d. The annual report shall include the results of the soil sampling accomplished under Condition 2 and describe the crops planted and nutrient budget for the current growing year for each management parcel.
- 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

8-17-01
Date of Issuance



Dennis Hemmer
Director
Department of Environmental Quality

LBH/mad/12071-ltr

cc: Platte County Commissioners

STATEMENT OF BASIS

- II. Permit Number: 01-024
- III. Application reviewed for compliance with the following regulations.
- A. Chapter XI. YES
- B. Chapter XII. NO
- IV. Basis for issuing permit: Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
- V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
- 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 August 20, 2001. 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

PERMIT NO. 01-025
SPECIAL CONDITIONS

Torrington Citywide Well Chlorination
PWS: 5600164

This permit hereby authorizes the applicant:

City of Torrington
2042 East "A" Street
Torrington WY 82240

to construct, install or modify liquid sodium hypochlorite solution injectors according to the procedures and conditions of the application number 01-025. The facilities are located in Sections 9,10,15,16 of T24N R61W in the county of Goshen, 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.

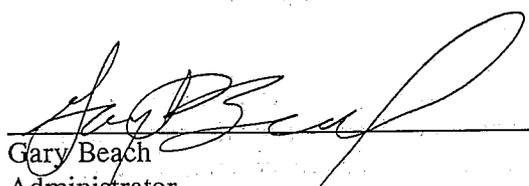
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

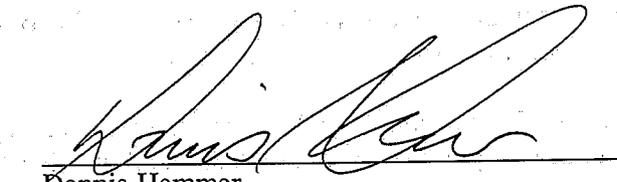
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 4 The applicant will notify the DEQ/W.D. 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/W.D. Southeast District Office in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/W.D. 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

2-1-1

Date of Issuance

LBH/mad/10263.ltr

STATEMENT OF BASIS

- I. Permit Number: 01-025
- 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 17, Chapter 3.
- 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 3, Wyoming Water Quality Rules and Regulations. This review was performed by Louis B. Harmon, Southeast District Engineering Supervisor, and completed on February 1, 2001. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

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

February 22, 2001

F. E. Warren Air Force Base
Attn. Lt. Patrick Wooten
90 CES/CECE
300 Vesle Dr.
FE Warren AFB, Wyoming 82005

RE: Contractor Staging Area Water System Extension, Application No. **01-026**

Dear Lt. Wooten:

The above application for coverage under General Permit to Construct, Install, Modify, or Operate Extensions to or Modifications of an Existing Public Water Supply Distribution Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

The approval granted under this Notification Of Coverage and the General Permit shall expire on February 22, 2004. Please reference Application Number **01-026** in any future correspondence.

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

Sincerely,

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

RLE/bb/10478.ltr

Enclosure

cc: IPS, Cheyenne
Russell Dahlgren, Dahlgren Consulting/Sear Brown, 914 E. 23rd, Cheyenne, Wyoming
82001
The Sear-Brown Group, 209 South Meldrum, Fort Collins, Colorado 80521-2603

THE STATE



OF WYOMING



JIM GERINGER
GOVERNOR

Department of Environmental Quality

3030 Energy Lane • Suite 200 • Casper, Wyoming 82604

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450

AIR QUALITY DIVISION
(307) 473-3455

WATER QUALITY DIVISION
(307) 473-3465

ABANDONED MINES
(307) 473-3460

NOTIFICATION OF COVERAGE

February 5, 2001

Bruce R. Yates, Administrator
Sheridan Area Water Supply, Joint Powers Board
224 So. Main Street, Suite B-8G
Sheridan, WY 82801

RE: Normative Services, Inc., Staff housing Water Supply, PWS# 5600052, Permit # 01-027

Dear Mr. Yates:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a water distribution system in accordance with Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O. of the general permit.

If you have any questions please contact Dennis Lamb at 3030 Energy Lane, Casper, WY, 82604, (307) 473-3452. Thank you.

Sincerely,

A handwritten signature in cursive script that reads "Dennis Lamb".

Dennis Lamb
Senior Environmental Analyst
DEQ/WQD

cc: IPS, Cheyenne
 Tom Barker, CER, 237 N. Main Street, Sheridan



IM GERINGER
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

NOTIFICATION OF COVERAGE

March 6, 2001

LaVertha Gotier, Mayor
City of Worland
P.O. 226
Worland, WY 82401

RE: Sewage lift station replacement with a sewer main extension to the Richins Addition,
Permit Number: 01-028R
Washakie County

Dear Mr. Gotier:

The above application for coverage under General Permit to Construct the replacement of an existing lift station with a sewer extension consisting of 1152 linear feet of 8 inch PVC sewer main, 5 manholes and an concrete encased canal crossing in accordance with Chapter 3, Section 7 and Chapter 11, Section 9, of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Jeff Hermansky, P.E.
District Engineer
Water Quality Division

cc: IPS, Cheyenne
encl: General Permit a For Sewage Collection System

PERMIT TO CONSTRUCT

— New
Renewal

PERMIT NO. 01-029
SPECIAL CONDITIONS

Guernsey RV Park Well and Well House
PWS: 5600023

This permit hereby authorizes the applicant:

Town of Guernsey
85 West Whalen
Guernsey WY 82214

to construct, install or modify a well, pump, well house and chlorinator according to the procedures and conditions of the application number 01-029. The facility is located in SE 1/4 Section 2 T25N 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.

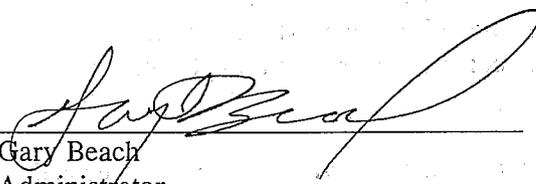
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not

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.

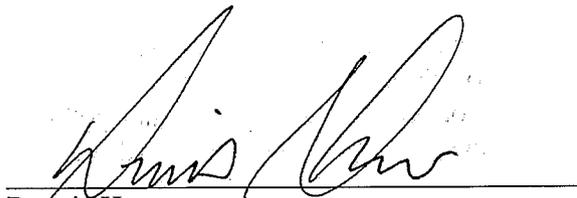
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 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 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 5 The well casing will be grouted with bentonite tablets from just above the top of the screen to some point at least 10 feet below the surface. At least the top ten feet of the casing shall be sealed with a cement or concrete grout.
- 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

2-16-01
Date of Issuance

STATEMENT OF BASIS

Permit Number: 01-029

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 17, Chapter 3.

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 3, Wyoming Water Quality Rules and Regulations. This review was performed by Luis B. Harmon, Southeast District Engineering Supervisor, and completed on February 13, 2001. 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

PERMIT NO. 01-030
SPECIAL CONDITIONS

Pine Bluffs Lift Station and Force Main Replacement

This permit hereby authorizes the applicant:

Town of Pine Bluffs
220 Main Street
Pine Bluffs WY 82082

to construct, install or modify a replacement lift station and 1640 feet of force main according to the procedures and conditions of the application number 01-030. The facility is located in NW 1/4 Section 14 T14N R60W 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 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.

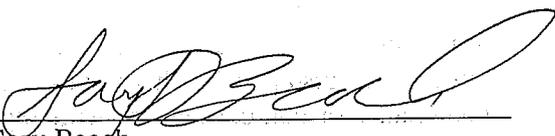
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

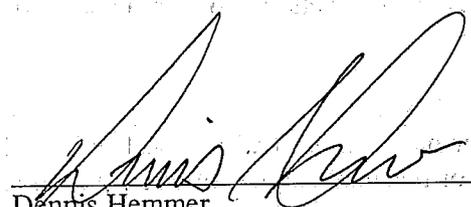
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 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 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 5 The lead pump start set point in the wet well shall be lower than the invert of the influent sewer line.
- 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

2-16-01

Date of Issuance

LBH/bb/10391.ltr

STATEMENT OF BASIS

Permit Number: 01-030

- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. YES
- B. Chapter XII. NO
- III. Basis for issuing permit: Review of the 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 17, Chapter 3.
- 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 Quis B. Harmon, Southeast District Engineering Supervisor, and completed on February 14, 2001. 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/10391.ltr

PERMIT TO CONSTRUCT

New
Renewal
Modified

PERMIT NO. 01-031
SPECIAL CONDITIONS

POWDER RIVER HIGHWAY REST AREA WASTE WATER SYSTEM

This permit hereby authorizes the applicant:

Wyoming Department of Transportation
P. O. Box 668
Sheridan, WY 82801

to construct, install or modify a recirculating sand filter small waste water system with a surface discharge (NPDES required), and associated tanks, pumps and disinfectant devices according to the procedures and conditions of the application number 01-031. The facility is located in the SW/4 of Section 17 of T49N R77W in the county of Johnson, 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.

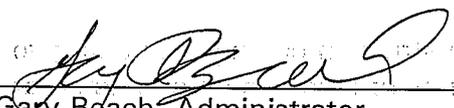
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the 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.

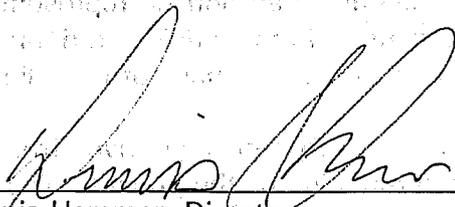
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 1 of 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 as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
- 4 of 5 The applicant will not begin operation of this facility until the required NPDES permit has been issued.
- 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

3-19-2001
Date of Issuance

JDL/03/12/01/b/10591.ltr

Enclosures: Notification Post Card, Certificate of Completion, Statement of Basis

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 01-031
- 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.
- Yes
- 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.
- Section 5 (a)(i), Chapter 11, states that data obtained from a full scale, comparable facility which demonstrates the acceptability of the design should be included in the permit application package.
- B. Briefly state the basis for the deviation.
- A recirculating sand filter (RSF) sewage treatment system is a new technology with no approved DEQ/WOD policy statement.
- 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).

No policy has been written but industry experience and data has shown that the RSF technology performs as expected. Examples and discharge data from comparable RSF systems were included in the permit application.

V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter III¹. (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 Supervisor, and completed on March 12, 2001. 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/10591.ltr

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



The State
of Wyoming

Department of Environmental Quality

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

Jim Geringer, Governor

AIR QUALITY
(307) 672-6457
Fax (307) 674-6050

LAND QUALITY
(307) 672-6488
Fax (307) 672-2213

WATER QUALITY
(307) 672-6457
Fax (307) 674-6050

September 19, 2001

Mr. John Galbreath, P.E.
WWC Engineering
1849 Terra Avenue
Sheridan, WY 82801

RE: Powder River Highway Rest Area, Permit # 01-031

Dear John:

I have reviewed the revised design drawings submitted for the above Powder River Rest Area On-Site Wastewater Treatment and Discharge System. The revisions identified do not require any permit revisions to the current permit # 01-031.

If you have any questions please contact Rick J. Estes at 1043 Coffeen Avenue, Suite D, Sheridan, WY, 82801, (307) 672-6457.

Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Rick J. Estes".

Rick J. Estes, P.E.
DEQ/WQD NE District Senior Environmental Analyst

cc: IPS, Cheyenne
Dennis Lamb - DEQ/WQD NE District Supervisor



THE STATE OF WYOMING

JIM GERINGER
GOVERNOR

Department of Environmental Quality

3030 Energy Lane • Suite 200 • Casper, Wyoming 82604

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450

AIR QUALITY DIVISION
(307) 473-3455

WATER QUALITY DIVISION
(307) 473-3465

ABANDONED MINES
(307) 473-3460

NOTIFICATION OF COVERAGE

June 14, 2001

Mr. Doug Cobb, Superintendent
Weston County School District #1
116 Casper Ave
Newcastle, WY 82701

RE: Newcastle Replacement High School Water Distribution Lines, Permit # 01-032

Dear Mr. Cobb:

The above application for coverage under the General Permit to Construct, Install, Modify or Operate a water distribution system in accordance with Chapter 3 and Chapter 12 of the WWQRR have been reviewed and are hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O. of the general permit.

If you have any questions please contact Dennis Lamb at 3030 Energy Lane, Casper, WY, 82604, (307) 473-3452. Thank you.

Sincerely,

A handwritten signature in cursive script, appearing to read "Dennis Lamb".

Dennis Lamb
NE District Supervisor
DEQ/WQD

cc: IPS, Cheyenne



THE STATE OF WYOMING

JIM GERINGER
GOVERNOR

Department of Environmental Quality

3030 Energy Lane • Suite 200 • Casper, Wyoming 82604

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450

AIR QUALITY DIVISION
(307) 473-3455

WATER QUALITY DIVISION
(307) 473-3465

ABANDONED MINES
(307) 473-3460

NOTIFICATION OF COVERAGE

June 14, 2001

Mr. Doug Cobb, Superintendent
Weston County School District #1
116 Casper Ave
Newcastle, WY 82701

RE: Newcastle Elementary School Sewer Collection Lines and Water Distribution Lines,
Permit # 01-033

Dear Mr. Cobb:

The above application for coverage under General Permit to Construct, Install, Modify or Operate extensions to or modifications of existing sewage collection systems in accordance with Chapter 3 and Chapter 11, Part B, of the Wyoming Water Quality Rules and Regulations (WWQRR) and General Permit to Construct, Install, Modify or Operate a water distribution system in accordance with Chapter 3 and Chapter 12 of the WWQRR have been reviewed and are hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O. of the general permit.

If you have any questions please contact Dennis Lamb at 3030 Energy Lane, Casper, WY, 82604, (307) 473-3452. Thank you.

Sincerely,

Dennis Lamb
NE District Supervisor
DEQ/WQD

cc: IPS, Cheyenne

AS-BUILT PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 01-034

HELLS HALF ACRE PUBLIC WATER SUPPLY PWS #5600624

This permit hereby authorizes the applicant:

Natrona County Parks Dept.
PO Drawer 848
Mills, WY 82633

to have constructed, installed, or modified a water distribution system according to the procedures and conditions of the application number 01-034. The facility is located in the SE/4 Section 36 of T36N R86W 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 (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.

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

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

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

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

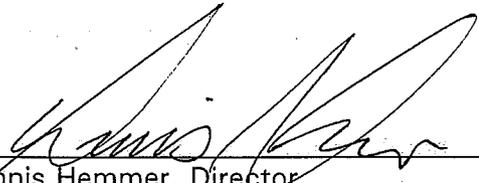
AUTHORIZED BY:



Gary Beach, Administrator
Water Quality Division

9-23-02

Date of Issuance



Dennis Hemmer, Director
Department of Environmental Quality

JDL/pr:9/20/02

b/2-3038.ltr

Enclosures: Statement of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 01-034

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 (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 17, Chapter III¹. (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-Senior Environmental Analyst, and completed on September 20, 2002. 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/2-3038.LTR

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 17.



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

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

March 1, 2001

South Cheyenne Water & Sewer District
Attn. Dena L. Hansen, Office Manager
215 East Allison Road
Cheyenne, Wyoming 82007

RE: Prosser Road Utility Adjustments, Application No. **01-035**

Dear Ms. Hansen:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and Existing Sewage Collection Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permits, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

The approval granted under this Notification Of Coverage and the General Permits shall expire on March 1, 2003. Please reference Application Number **01-035** in any future correspondence.

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

Sincerely,

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

RI E/bb/10522.ltr

c IPS, Cheyenne

Tee J. Burr, Washington Infrastructure Services, 5209 Yellowstone Road, Ste 1, Cheyenne, Wyoming 82009

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

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

(X) New
() Modified

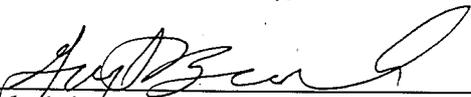
Permit Number: UIC 01-036
UIC CLASS 1-I

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 13 (1993),

Kissack Water and Oil Service, Inc.
P. O. Box 9
Rozet, Wyoming 82727
(307) 682-9026

is authorized to operate the Kissack Water and Oil Services, Inc. Hamm No 1 Water Disposal Well located in the NW¼ SW¼ Section 17, Township 50 North, Range 69 West, Sixth Principal Meridian, in Campbell County, Wyoming according to procedures and conditions of the applications numbered UIC 01-036, and requirements and other conditions of this permit as contained in pages 1 through 18.

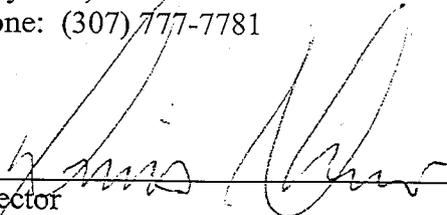
This permit shall become effective on date of issuance.



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

5/22/01

Date



Director
Department of Environmental Quality
Herschler Building, 122 W. 25th
Cheyenne, WY 82002

5-22-01

Date

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A. Discharge (Injection) Zone and Area of Review

Discharge Zone

This injection well is authorized to inject into the Minnelusa Formation which is found in the well bore at the Kissack Water and Oil Services, Inc. No 1 Water Disposal Well from 8,380 to 8,420 feet below the ground surface. Kissack Water and Oil Service may add additional perforations within the above named interval of the authorized Formation with the prior approval of the Water Quality Division.

The initial perforations in this well are from 8,380 to 8,390 feet below ground surface.

The packer set on the bottom of the tubing shall be set within 200 feet of the top of the authorized discharge zone.

Area of Review

The wells authorized by this permit is located in:

Township 50 North, Range 69 West, 6th Principal Meridian
Section 17: NW $\frac{1}{4}$ SW $\frac{1}{4}$

The Area of Review around these wells is legally described as:

Township 50 North, Range 69 West, 6th Principal Meridian
Section 17: W $\frac{1}{2}$ NE $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$, NW $\frac{1}{4}$
Section 18: E $\frac{1}{2}$,
Section 19: N $\frac{1}{2}$ NE $\frac{1}{4}$
Section 20: N $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$.

The above area of review is based on the following assumptions:

- Time of Operation: 10 Years (Total of 3,659 Days)
- Porosity: 14%
- Maximum Injection Rate: 94 g.p.m. (135,744 g.p.d. or 3,232 b.p.d.)
- Thickness of Receiver: 40 feet

The above assumptions lead to a radius of fill up of 1,941 feet assuming that injectate moves radially outward from the point of injection. The time of operation of 10 years is based on the time necessary to fill up the available void on the single lease. Operation will probably continue beyond this time with fill up occurring on adjacent leases.

Besides the injection well covered by this permit, there are 11 plugged and abandoned wells and 1 inactive oil well within the area of review.

B. Groundwater Classification

The groundwater in the Minnelusa Formation within the area of review has been designated Class VI groundwater of the state, based on:

1. The depth of this formation is such that production of waters from this formation is not economically or technically practical.
2. This formation contains waters which contain in excess of 51,000 mg/l of Total Dissolved Solids.
3. This formation has produced hydrocarbons in the past. The water in this formation may be assumed to contain high levels of dissolved hydrocarbons.

C. Authorized Operations

1. The permittee is authorized to inject into the Minnelusa Formation through perforations at 8,380 to 8,390 feet below the surface in the Kissack Water and Oil Services, Inc. No 1 Water Disposal Well. Wastes to be injected include: oil field produced waters (SIC 13) and other industrial wastes. Existing sources of produced water have been identified in the application. New sources shall be identified prior to injection. Sources previously approved for disposal in the Horse Creek Federal 1-8 and Kissack 31-25 Disposal Well are hereby approved for disposal into this system, until the expiration dates of those individual approvals.
2. Kissack Water and Oil Services, Inc. is authorized to inject 94 gallons per minute (3,232 barrels per day) of industrial wastes as described:

a. Well work over wastes

This category includes: Water associated with drilling fluids used during the drilling of any oil and gas well or the water supply wells on oil and gas locations; Rig wash water; Well completion, treatment and stimulation fluids; Waste produced during any work over or abandonment of and oil or gas well or test hole; Wastes from subsurface gas storage and retrieval; Liquid hydrocarbons removed from the production stream but not from oil refining; Materials ejected from a producing well during the process known as blowdown;

Kissack Water and Oil Services, Inc. shall obtain an API standard water analyses for each lot of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly reports under the heading "**Well work over wastes- Authorization# 1997-1**", rather than the name of the company generating the wastes.

b. Water and other tank bottoms

This category includes: Water and other tank bottoms from the storage facilities that hold crude oil, natural gas, gas condensate, or wastes which are exempt under the Oil and Gas Exploration and Production Exemption to RCRA.

At least once every three years, Kissack Water and Oil Services, Inc. shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations, for each source of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly report under the title "**Water and other tank bottoms- Authorization# 1997-2**" rather than the name of the company generating these wastes.

c. Gas plant sweetening and dehydration wastes

This category includes: Gas plant sweetening wastes for sulfur removal including amines, backwash, and any wastes produced by a Bevon Stetford processing plant; Gas plant dehydration wastes, and backwash. To date over 13,072 barrels of glycol containing wastes, 1909 barrels of spent caustics, and 20 barrels of amine containing wastes, have been disposed of in the Horse Creek Federal 1-8.

At least once every three years, Kissack Water and Oil Services, Inc. shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations, for each company generating such wastes which are accepted under

this provision. These analyses shall be accompanied by a complete description of the waste sampled including the plant name and location, and whether the waste is glycol, amine, or caustic waste. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly report under the title "**Gas Plant Wastes - Authorization# 1997-3**" rather than the name of the company generating these wastes.

d. Miscellaneous Oilfield Related Wastes

Cooling tower blowdown wastes on gas plant or other exempt sites; Packing fluids; Pigging wastes from in field gathering lines, but not from interstate pipeline systems;

Once every three years, Kissack Water and Oil Services, Inc. shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations, for each source of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly report under the title "**Miscellaneous Oilfield - Authorization# 1997-4**" rather than the name of the company generating these wastes.

e. Regulated Underground and Above Ground Storage Tank Wastes

Wastes generated during the removal or maintenance of Underground or Above Ground Storage Tanks, so long as those tanks are regulated facilities under the Above Ground and Underground Storage Tank Program administered by the Water Quality Division. Under this provision, wastes including water from inside an active tank, water found inside the tank during a removal operation, ground waters contaminated by gasoline and diesel, and water used in any form of testing operation, may be injected without analyses and without prior approval. Kissack Water and Oil Services, Inc. shall obtain a written statement from the generator of any such waste stating that the waste is from a storage tank regulated by the Water Quality Division. These statements shall contain the certification statement found in your permit. Please account for all such wastes on your quarterly report under the title "**Regulated Tank Wastes - Authorization# 1997-5**" rather than the name of the company generating these wastes.

f. Oilfield Produced Water

This category includes all waters produced directly with the production of oil and gas and collected in the field where the oil and gas were produced. It does not include tank bottoms, or water accumulated in gas processing plants, refineries, or Intrastate or Interstate Pipe Line facilities.

Kissack Water and Oil Services, Inc. shall obtain an API standard water analyses for each lot of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly reports under the heading "**Oilfield Produced Water- Authorization# 1997-6**", rather than the name of the company generating the wastes.

g. Sump Wastes

Wastes known as "sump wastes" from floor drains and septic tanks at various sites. This general category includes wastes from sumps in automotive shops, gasoline stations, oilfield service industries, airports, and similar shops which perform mechanical work. This category does not include industrial process wastes from manufacturing operations or wastes from sumps in shops which do not perform mechanical work. These wastes must be characterized fully prior to disposal to insure that they are not hazardous wastes. The Water Quality Division will issue a letter of approval for each new source of waste under this category prior to Kissack Water and Oil Services, Inc. accepting the first lot of waste.

In order to obtain such an approval letter, Kissack Water and Oil Services, Inc. shall submit a complete written description of the waste, including the name of the company generating the waste, the address or legal description of the location where the waste was produced, a description of the processes that produced the waste, and a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations. Based on this information, the Water Quality Division may issue an approval letter for the disposal of non-hazardous sump waste for a duration of no more than three years.

In order to renew a previously approved source, once every three years, Kissack Water and Oil Services, Inc. shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations. Please account for all such wastes on your quarterly report under the title "**Miscellaneous Sump Waste - Authorization# 1997-7**" rather than the name of the company generating these wastes.

h. Bevill Amendment Wastes

The Bevill Amendment exempts most wastes generated in the mining industry from regulation under RCRA. Wastes covered by the Bevill Amendment to RCRA are detailed in 40 CFR 261.4(b)(7). This section of 40 CFR 261 sets up two types of mining wastes which are exempt, beneficiation wastes and processing wastes. The two terms are almost interchangeable, except that processing usually refers to a process which produces a final end product, while beneficiation produces an intermediate product which must be further refined to be used. Once every three years, Kissack Water and Oil Services, Inc. shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations. Please account for all such wastes on your quarterly report under the title "**Bevill Amendment Waste - Authorization# 1997-8**" rather than the name of the company generating these wastes.

i. Water well wastes

This category of fluids includes: Water associated with drilling fluids used during the drilling of any water supply well; Rig wash water; Well completion, treatment and stimulation fluids; Waste produced during any work over or abandonment of a water well or test hole including spent acid from acid fracturing or well acidizing jobs.

Kissack Water and Oil Services, Inc. shall obtain an API standard water analyses for each lot of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly reports under the heading "**Water well wastes - Authorization# 1997-9**", rather than the name of the company generating the wastes.

j. Miscellaneous Non-hazardous wastes

In addition to the authorizations contained in this permit, Kissack Water and Oil Services, Inc. may still obtain additional approvals for wastes which do not fit any of the above classifications. Any such waste must be characterized fully in order to insure that this waste is not a hazardous waste. The Water Quality Division will issue a letter of approval for each new source of waste under this category prior to Kissack Water and Oil Services, Inc. accepting the first lot of waste. In order to obtain such an approval letter, Kissack Water and Oil Services, Inc. shall submit a complete written description of the waste, including the name of the company generating the waste, the address or legal description of the location where the waste was produced, a description of the processes that produced the waste, a certification that the waste is not a listed hazardous waste, and a comprehensive water analyses for the waste. Since this is a very broad category of wastes, the exact analyses required will be based on the type of processes that

generate the waste, and the type of contaminants likely to be present in the waste. Based on this information, the Water Quality Division may issue an approval letter for the disposal of non-hazardous waste for a duration of no more than three years.

In order to renew a previously approved source, once every three years, Kissack Water and Oil Services, Inc. shall obtain a comprehensive water analyses including all parameters included in the initial approval. Please account for all such wastes on your quarterly report under the title "**Miscellaneous Non-Hazardous Waste - Authorization# 1997-10**" rather than the name of the company generating these wastes.

3. For each type of waste accepted under any of the blanket authorizations contained in this permit, Kissack Water and Oil Services, Inc. shall require that the company generating these waste provide a full written description of the wastes to support the fact that the wastes are similar to the wastes described in the authorization. Kissack Water and Oil Services, Inc. shall keep records on site concerning the source of all such wastes. All wastes accepted under any authorization contained in this permit shall be neutralized to a pH of greater than 2.0 and less than 12.5.

4. The composite injection stream may also contain a small amount of Nalco 7801 corrosion inhibitor. Approximately 4-1/2 gallons of inhibitor is used per day. Nalco 7801 is an aqueous solution of alkonal amine phosphate ester and ethylene glycol. Nalco 7801 has been shown to not meet the definition of hazardous waste under RCRA.

The composite injection stream may also contain a small amount of Betz GCP-188 deposit control additive. Approximately 9 gallons of Betz GCP-188 is used per day. Betz GCP-188 deposit control additive has been shown to not meet the definition of hazardous waste under RCRA.

The composite injection stream may also contain a small amount of Tretolite SP-200 scale inhibitor. Tretolite SP-100 deposit control additive has been shown to not meet the definition of hazardous waste under RCRA.

The composite injection stream may also contain a small amount of Tretolite NC-370 Biocide added to control bacterial growth in the injection system. Tretolite NP-370 biocide additive has been shown to not meet the definition of hazardous waste under RCRA.

5. The permittee is authorized to inject at a pressure of no more than 2,800 psig as measured at the wellhead. The pressure of injection shall be continuously monitored and recorded on a chart recorder.

6. Within the first six months of operation, the permittee shall conduct a step injection test to determine the actual fracture pressure of the formation. After this test is conducted, the permittee shall not exceed a pressure of 200 psig less than the actual fracture pressure as measured by the step rate test. The permittee may conduct additional step injection tests at a later time to determine changes in the fracture pressure as the injection continues. After acceptance by the Administrator of these tests, the permittee shall limit the injection pressure to 200 psig less than the new fracture pressure as measured on the surface.

7. The permittee shall monitor continuously the pressure on the casing/tubing annulus and shall maintain a positive pressure on that annulus. The pressure maintained shall be not less than 200 psig nor more than 800 psig.

8. In the event that the injection pressure and/or rate exceeds authorized limitations such excessive rate or

pressure is a violation of this permit and shall be reported pursuant to Section I.6 of this permit.

9. **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. Proper Operation and Maintenance

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

The permittee is required at all times to properly operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve permit compliance. Proper operation and maintenance includes mechanical integrity of the well, effective performance, adequate funding, adequate 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 permit.

The injection well covered by this permit shall meet all construction requirements outlined in Chapter 13, Section 11 of the Wyoming Water Quality Rules and Regulations.

The permittee is required to conduct the operation in accordance with statements, representations and procedures presented in the complete permit operation and supporting documents, as accepted and approved by the Administrator.

Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit is issued.

Injection into the well may not commence until construction is complete.

E. Entry and Inspection

The permittee shall allow the administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. Environmental Monitoring Program for Ground Waters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation 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 prescribed program for this permitted activity is as follows:

The injection zone (Minnelusa Formation) is an oil producing formation overlain by the Opeche, Dakota, Muddy and Pierre Formations. Because of the excellent confinement provided by these formations, no groundwater monitoring program for near surface ground waters is required.

Prior to injection of any waste under this permit, the waters in the Minnelusa Formation shall be sampled and analyzed for all of the constituents listed in Table I found on page 9 of Chapter 8, Wyoming Water Quality Rules and Regulations.

G. Requirements for Monitoring the Discharge

Discharge (injection) volume and/or pressure shall be controlled and monitored to prevent fracturing of confining strata.

The permittee shall meter the injection stream continuously and the injection meter shall also include a totalizer.

The permittee shall monitor the injection pressure continuously and record those readings on a strip chart recorder, a circular chart recorder, or digitally by computer interface with the pressure transducer on the well.

The permittee shall shut in the well covered by this permit annually for a period of time long enough to observe a valid pressure falloff curve. This test shall be considered complete when the pressure curve becomes asymptotic to a horizontal line or when the injection line reaches a vacuum as measured at the surface, whichever occurs first.

The first pressure falloff curve described above shall be run within the first 90 days of operation. This first pressure falloff curve shall be run using quartz gauges with an accuracy of .01 psi and shall continue until ambient reservoir pressure has been reached, even if this requires the use of down hole gauges to measure pressures of less than atmospheric. In addition, the Administrator may require the use of quartz gauges on any subsequent test after the first test, if this procedure is deemed necessary to make proper interpretations of the data. All pressure falloff curves required by this permit shall be accompanied by an interpretive report explaining the effects observed during the test, and changes documented since the previous tests.

The permittee shall monitor the quality of the injected water on an approved schedule. The following parameters shall be analyzed by the listed methods and reported annually:

SAMPLING SCHEDULE	ANALYTICAL METHOD*	PARAMETER ANALYZED	PERMIT LIMIT (UCL)
Annually	EPA 239.2	Total Lead	5.0
	EPA 213.2	Total Cadmium	1.0
	EPA 218.1	Total Chromium	5.0
	EPA 160.1	TDS	No Limit
	EPA 150.1	pH	shall be >2.0 & <11.0

*Kissack Water and Oil Service may propose alternate methods for these analyses within the first 180 days of operation under this permit. After acceptance, these methods shall not be changed without Water Quality Division prior approval.

The above Upper Control Limit (UCL) is not to be exceeded on any sample. Exceedence of this value is a violation of this permit and shall require corrective action. All of the UCL's listed in this permit are expressed in mg/l. except pH which is in standard units.

H. Test Procedures

Test procedures for the determination of water quality parameters and constituents shall be in accord with provisions of Water Quality Rules and Regulations Chapter 8, Section 7.

All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. All samples taken shall include a trip blank of distilled water for each sampling date and a duplicate sample at least once per year.

I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.

3. The permittee shall give advance notice to the administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified in Section C and/or Section G of this permit.
5. 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 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable ground waters of the state.

A written submission shall be provided within 5 days of the time the permittee 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.

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.
8. Where the permittee becomes aware that it failed to submit any relevant acts 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.
9. The permittee 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.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:
 - a. Well construction is complete and the permittee has submitted notice of completion of construction to the administrator, and
 - b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
 - c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the

administrator.

11. The quarterly report of operations for this well shall include the following information:
 - a. The minimum, average and maximum daily injection rate for each month of the quarter. The page showing the maximum injection rate shall also show the maximum permitted injection rate for comparison.
 - b. The minimum, average, and maximum daily injection pressure for each month of the quarter. The page showing the maximum injection pressure shall also show the maximum permitted injection pressure for comparison.
 - c. The total injection volume in barrels for each month of the quarter, the total for the quarter, the total cumulative injected to date.
 - d. The maximum and minimum annulus pressure for each month of the quarter.
 - e. Any permit exceedences within the quarter.
 - f. Any tests run during the quarter. This includes but is not limited to the results on any Mechanical Integrity Tests, Pressure Falloff Tests, Step Injection Tests, or any well work overs.
 - g. Quarterly reports are due in the Cheyenne office of the Water Quality Division no later than 30 days after the end of each calendar quarter.
12. The annual report of operations on this wells shall include the fourth quarterly report and the following additional information:
 - (1) A graphical representation of the injection pressure and volume for the previous five year's operation. This graph shall have the dates of the year on the abscissa and the pressure and volume as the ordinate.
 - (2) Graphical representations of the quality of the injected water overtime. These graphs shall show the injected quality for the previous five year's operation and shall be prepared on appropriate scales to show the variation.
 - (3) Analytical results required by section G of this permit.
13. 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.

J. Permit Actions

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

1. Violation of the permit;
2. Obtaining a permit by misrepresentation or failure of the discharge well or system.

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

A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit 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 permittee's discharge, as may be ordered by the council.

This operation (permit) can be terminated by authority of the administrator for one or more permit violations.

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

K. Mechanical Integrity

Each discharge well and associated discharge facilities is required to have mechanical integrity which demonstrates the unimpaired condition of the well and facilities. The approved procedures for demonstrating the mechanical integrity for the well and facilities handling the discharge authorized by this permit consist of:

Part I of the Mechanical Integrity test shall demonstrate the absence of leaks through the packer, tubing, casing, and wellhead.

At least once every five years, and more frequently if required by the Administrator, the permittee shall hold 2,800 psig on the annulus between the long string and the tubing for a minimum of 15 minutes. During this time, the annulus pressure should not drop perceptibly. If a perceptible drop in pressure occurs, the annulus shall be repressured to 2,800 psig and held for 15 minutes. During this second test, no perceptible pressure drop should occur. This part of the test is considered successful if no more than 50 psig of pressure loss occurs. If there is a perceptible loss in pressure of less than 50 psig, the Water Quality Division may require more frequent tests.

Part II of the Mechanical Integrity test shall demonstrate the absence of fluid movement behind the casing.

At least once every five years, and more frequently if required by the Administrator, the permittee shall perform a standard Radioactive Tracer Survey and Temperature log on this well. The temperature log shall be run with the well shut in and shall be recorded while the tool is lowered into the hole.

Wells which have not demonstrated both parts of the Mechanical Integrity test shown on the above schedules, shall be shut in until the Mechanical Integrity has been restored and the required tests have been passed.

Kissack Water and Oil Services, Inc. shall run a standard Cement Bond Log before running tubing and after all other operations are completed, during the re-completion of this well. The Cement Bond Log shall include a microsiesmogram as well as the amplitude curve, natural gamma, and casing collar curves. The indicated top of cement on this log must be no deeper than 7,742 feet below land surface.

In the event that the log does not indicate proper cement bond from 7,742 feet to 8,242 feet, then a squeeze cement job will be required and a second Cement Bond Log shall be run after 24 hours of set time.

Prior to injecting any fluid into the Kissack Water and Oil Services, Inc. No 1 Water Disposal Well, this well shall also be logged for a Radioactive Tracer Survey and Temperature Log as above.

Other types of logs may be substituted for the above with the prior approval of the Water Quality Division.

L. Abandonment

The permittee shall notify the administrator at such times as the permit requires before conversion or abandonment of the well. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the director and follow the procedure prescribed by the director for plugging and abandonment or the discontinuance of related activities:

The following abandonment procedure shall be followed for the wells covered by this permit:

A squeeze cementing operation shall be run with the cement retainer set within 200 feet of the top perforations. This cementing operation shall consist of pumping 100 sacks of 50/50 pozmix cement with 2% allowed gel or class G cement with .4% fluid loss additive. After stinging out of the retainer an additional 400 sacks of class G cement with retarder added shall be emplaced in the casing as the tubing is withdrawn. The remainder of the hole shall be filled with water. Following this operation, the top 500 feet of the hole shall be filled with cement as above and a standard dry hole marker shall be installed on the surface and welded or bolted to the long string.

In no case shall the abandonment procedure be less stringent than that required at the time of abandonment by the Wyoming Oil and Gas Conservation Commission for the abandonment of producing oil wells at the time of abandonment. In no case shall the abandonment procedure be less stringent than that required by the EPA nationwide for class I nonhazardous waste wells at the time of abandonment.

Within thirty (30) days after plugging and abandonment of this well covered by this permit, the permittee shall submit a plugging and abandonment report, detailing the compliance with the compliance and abandonment procedures outlined in the original permit application, and describing any deviation from the original plan. The abandonment shall include reclamation of the well site.

M. 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 permitted 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 the permit.

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. The permittee shall notify the administrator as soon as possible of any planned physical alteration or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alteration or addition. Any modification which may result in a violation of a permit condition shall be reported to the Administrator, and any modification that will result in a violation of any permit conditions shall be reported to the Administrator through the submission of a new or amended permit application.

6. The permittee shall report all instances where he becomes aware that he failed to submit any relevant facts in the permit application, or where he submitted incorrect information in a permit application or in any report to the Administrator, and shall promptly submit such facts or information.

N. Financial Responsibility

The permittee is required to maintain financial responsibility and resources in form approved by the director, to close, plug and abandon the discharge operation in a manner prescribed by the director.

The permittee has demonstrated financial responsibility as required by Chapter 13 of Wyoming Rules and Regulations in the form of a financial test demonstrating sufficient resources to plug and abandon the nonhazardous waste injection well covered by this permit. A letter of credit, number 4795737460-58, in the amount of \$25,000.00 has been issued by Wells Fargo Bank in favor of the department. This letter of credit or a replacement shall be maintained in compliance with W.S. 35-11-306. An alternative financial assurance mechanism may be used to comply with this law, after approval by the department.

O. Special Measures the Director Finds Necessary:

The site shall be secure against unauthorized injection. The permittee is free to determine how best to secure the site, but it is the permittee's responsibility to insure that nothing is injected in this well without his knowledge. At a minimum, the injection plant shall be locked to prevent unauthorized access.

P. Special Permit Conditions:

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

Mechanical integrity -- operations terminate immediately if mechanical integrity of well or system fails and/or a leak or unauthorized fluid movement occurs.

In addition to the conditions required in all permits, the Administrator has established conditions as required for monitoring, schedules of compliance and such additional conditions as are necessary to prevent the migration of fluids into underground sources of drinking water. these conditions are established in conformance with Chapter 13, Section 9(e)

Q. Signatories Requirement

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

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

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

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

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

1. The authorization is made in writing by one of the 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.

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.

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."

R. Noncompliance

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of Chapter 13 of the water quality Rules and regulations and is grounds for enforcement action, permit termination, revocation, or modification. Confirmed noncompliance resulting in an excursion shall be reported to the Administrator orally within twenty-four (24) hours, and a written submission shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written report shall contain the sections specified in Section I of this permit. Any permit noncompliance constitutes a violation of the permit.

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

S. Permit Transfer

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. Any transfer of this permit shall be accomplished by the submission of the proper forms for the permit transfer to the Administrator. Transfer of this permit must first be approved by the Administrator and the Director, and no transfer shall be approved unless the proposed permittee agrees to bring any and all noncompliance issues into compliance with the permit.

The permittee is alone responsible for the operation of the facility and subsequent op this facility by another is a violation of this permit unless a transfer of this permit has first ben accomplished.

T. Responsibilities of the Permittee

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

U. Property Rights

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

V. Severability

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

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.

RFL/mad/11101-ltr

STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

A. Permit Number: UIC 01-036

B. Facilities Covered: Kissack Oil and Water Service, Inc., P.O. Box 9; Rozet, WY 82727; (307) 278 3347- *Number 1 Hamm Water Disposal Well* in the Section 17, Township 50 North, Range 69 West, of the 6th Principal Meridian, Campbell County. The well will inject into the Minnelusa Formation.

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

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 17, Chapter 3. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 17. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

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

VI. Documentation of Statement of Basis.

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

VII. Applicant and Public Participation

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

B. A Public Notice has been issued with a public notice period starting March 9, 2001 and ending on April 9, 2001 (30 day notice as required by Chapter 13.) This notice was published in Casper Star and the The News Record/Gillette 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 20, 2001. 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/10446.ltr

Revised August 9, 1993

THE STATE



OF WYOMING

M GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

NOTIFICATION OF COVERAGE

February 22, 2001

Rose Skinner, Mayor
Town of Pinedale
P.O. Box 709
Pinedale, WY 82941

RE: 2001 Town of Pinedale Waterline Improvements Projects, Permit Number: 01-037
Sublette County
PWS # WY5600041

Dear Ms. Skinner:

The above application for coverage under General Permit to Construct the replacement of a water main in Pine Street (Highway 191) consisting of approximately 3300 linear feet of 8, 6, and 4 inch ductile iron along with various appurtenances in accordance with Chapter 3, Section 7 and Chapter 12, Section 14, of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

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

Sincerely,


Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division


Doyle Conklin, P.E.
District Engineer
Water Quality Division

cc: IPS, Cheyenne

encl: (General Permit For Public Water Supply Distribution Systems Previously Sent)



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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May 18, 2001

Bob Hockert
Big Basin Petroleum, LLC
P.O. Box 1581
Gillette, WY 82717-1581

RE: Big Basin Injection Well BCWI 9-5

Dear Mr. Hockert:

The Aquifer Recharge well labeled BCWI 9-5 is authorized by rule under Chapter 16, Wyoming Water Quality Rules and Regulations as a class 5B2 aquifer recharge well. This well will inject into the Tarver Sand unit between the Anderson and Canyon Coal a members of the Fort Union Formation. This unit is located between 232 feet and 242 feet below ground surface.

Chapter 16, Section 8 details the requirements for wells which are authorized by rule. In this case, this well must have a pump which is capable of recovering the injected water for a beneficial use. You have already provided information showing that the injection zone is not a water bearing formation, that it is filled with air. When you complete this well for injection you should obtain a baseline groundwater analysis if possible to allow the zone to be classified under Chapter 8, Wyoming Water Quality Rules and Regulations. This well is located in:

Township 53 North, Range 73 West, 6th Principal Meridian
Section 5: NE $\frac{1}{4}$ SE $\frac{1}{4}$

The Total Dissolved Solids (TDS) of your coal bed methane produced water is over 1100 mg/l, and the Sodium Adsorption Ratio (SAR) is over 8. As long as the injection interval is dry or meets the requirements for class III or IV groundwater, you may inject water with a TDS value up to 5,000 mg/l, and there is no limit on SAR.

This agency requests that you provide the following additional information for all of your rule authorized aquifer recharge wells:

- ⊗ A monthly total of the number of gallons injected;

May 18, 2001

Page 2

- ⊗ A quarterly analysis of the water injected for Total Dissolved Solids, Sodium Adsorption Ratio; Sulfate; Chloride, Selenium, Arsenic, Coliform Bacteria and Iron Fixing Bacteria; and
- ⊗ The status of your injection wells. Which wells are injecting, shut in, or not yet drilled.

Please provide the above information in the form of a quarterly report which should be filed within thirty (30) days of the end of each calendar quarter.

Coal bed methane produced water potentially contains harmful bacteria. All operators should be disinfecting the water using methods appropriate for drinking water, prior to injection. If your company is not providing for disinfection, you should provide for that as soon as possible.

This letter will provide written authorization to complete this wells as a rule authorized injection well (Class 5B2 aquifer recharge wells) under Chapter 16, Wyoming Water Quality Rules and Regulations. This letter also authorizes you to begin injection as soon as the above stipulation has been met and the results forwarded to this office.

Prior to injection of water into this injection well, Big Basin Petroleum, LLC shall provide a copy of this letter to all owners of surface rights, oil and gas leases, coal rights, or water rights within one-half mile radius of each well. Such service shall be by certified letter with a copy of the return receipt provided to this office.

Please note that this rule authorization will be replaced within a year by authorization under a general permit which will be issued under an amended Chapter 16 regulation. The hearing before the Environmental Quality Council on amending Chapter 16 was scheduled for April 16, 2001. The Council tabled that rule until a meeting to be scheduled sometime in June. Under the amended rule, all coal bed methane wells will be re-classified to their own subclass and a general permit will be issued for the subclass in areas where coal bed methane development is occurring. Once issued, all operators will be required to be covered by the general permit rather than these rule authorization letters. The general permit itself will be subject to public notice requirements, but authorization under the general permit will not. You may operate this injection well under this rule authorization until after the general permit has been issued or until this department notifies you otherwise. We will keep our website at deq.state.wy.us posted with the progress made on the amended Chapter 16. You may want to keep yourself informed on that rulemaking.

Sincerely,


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

RFL/mad/11148-ltr

xc: Janie Nelson, Wyoming Oil and Gas Conservation Commission, P.O. Box 2640, Casper, WY 82602
Paul Osborne, USEPA, Region VIII, 999 18th Street, STE 500, Denver, CO 80202-2405

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: BobCat Coal Bed Methane Project
Class 5C3 UIC Permit Application

ENGINEER: None Listed

APPLICANT: Big Basin Petroleum, LLC
PO Box 1581
Gillette, WY 82717-1581

WATER QUALITY DIVISION REFERENCE NUMBER: UIC 01-038

REVIEWING ENGINEER: ROBERT F. LUCHT, P.E. & P.G.

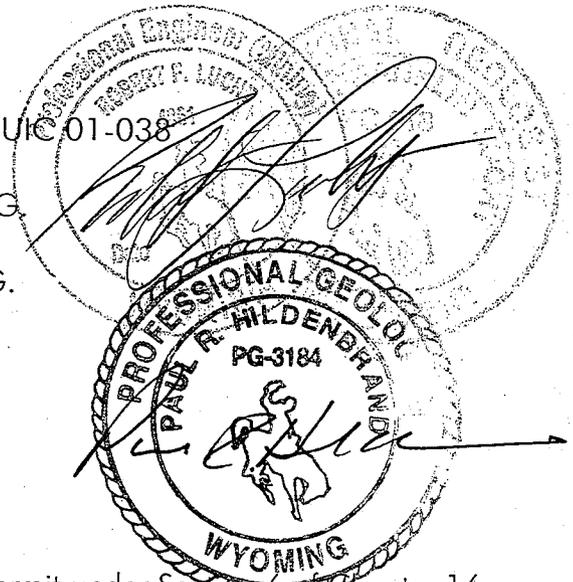
REVIEWING GEOLOGIST: PAUL R. HILDENBRAND, P.G.

DATE OF REVIEW: 02/20/01

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The applicant has applied for both an individual permit under Section 8 Chapter 16 and for a permit by rule as a 5D5 facility under Section 8 Chapter 16. The Division has determined that this facility must be permitted as a 5C3 facility and requires an individual permit. This application has been reviewed against Sections 6, 10, 11, and 12 of Chapter 16, Chapter 8, and Parts B and G of Chapter 11 of the Water Quality Rules and Regulations.
2. The applicant proposes to construct two storage reservoirs within two existing natural playas into which boreholes will be constructed into the Swartz Coal to allow infiltration of stored water into the target coal seam.
3. A rudimentary volumetric calculation has been provided to estimate the storage capacity of the Swartz Coal. However, no area of review calculation has been provided using ground water hydraulic and flow data. The applicant should provide a formal area of review calculation.



4. A reference is made in the application to regional geology, however no regional or site specific geology was provided in the application. The applicant should provide a description of the regional geology and hydrology and a detailed description site specific geology and hydrology. Information should include descriptions, names, depths, geologic structure, faulting, fracturing, lithology, hydrologic characteristics of the receiver, and fluid pressure of the receiver. At least four cross-sections at 45 degree angles to each other should be prepared that depict the geologic and hydrologic character of the receiver and overlying formations. These cross sections must extend from the center of the playas to at least two miles in all directions. Any and all outcrops should be shown on geologic maps and/or cross-sections.
5. A potentiometric surface map of the receiver should be constructed to verify the applicant's statement that the hydraulic gradient within the Swartz Coal "appears" to be in an easterly to southeasterly direction.
6. The application briefly describes the proposed methodology for constructing the reservoirs and wells. However, no engineering or construction details have been provided. The applicant should provide detailed design, construction, and operation standards that will be used for the facility in accordance with Section 10 of Chapter 16 and Parts B, D and G of Chapter 11, Water Quality Rules and Regulations. This section should also address the use of testing devices to be used as well as monitoring and metering of the injectate volume and quality.
7. The applicant needs to address the pre-treatment plan requirement in Section 10 of Chapter 16.
8. The applicant needs to provide a monitoring plan in accordance with the requirements in Section 11 of Chapter 16 for the facility, including plans and methodology for routine sampling of the injected waste stream.
9. The applicant needs to provide an abandonment plan for the facility in accordance with Section 12 of Chapter 16.
10. The applicant needs to provide a remediation plan in the event there are surface discharges due to seeps from outcrops or drainages.
11. There is only one sample of Swartz Coal water presented in the application, and it was taken from an open borehole, and had to be centrifuged prior to analysis because of excessive suspended solids content. This one analysis may not be representative of the Swartz Coal water quality. Additional water quality samples should be collected from the Swartz Coal through cased wells to verify that the analysis provided is representative of the proposed receiver water quality. A broad statement referencing "typical" water quality is not adequate.

12. It is apparent that the existence or non-existence of scoria within the area of review is based on only one data point, the pilot stratigraphic borehole. Additional geologic data need to be provided to conclusively show that scoria is not present within the area of review.
13. The applicant states that there is no evidence of coal outcrops or springs, but that they may be covered by weathered, vegetated colluvial material. The applicant needs to positively identify any potential coal outcrops and/or spring locations and locate them on an appropriately scaled map. Waiting until seeps form during operation is not an acceptable method for identifying outcrops and springs.
14. The applicant indicates in the application that the site water balance is still being developed. The complete water balance calculation needs to be provided as part of this application.
15. The applicant references land application as an additional water management methodology. Land application is not allowed under a Chapter 16 permit. Any such land application is subject to a permit which must show the exact area to be land applied, the amount and quality of the effluent to be land applied, along with information showing that the requirements of Chapter 11, Part E have been met.
16. The applicant states that a comprehensive site-specific water management plan is being developed. Attachment O of the application provides a brief explanation of the water management plan principles. The comprehensive plan should be provided as part of the application.
17. Attachment O states that the reservoirs, stock tanks, and water lines will have hydrant taps to divert water to other places. The application does not describe how or where this will be done. The applicant needs to provide additional information including locations of diversion points and endpoints. Detailed geologic and hydrologic information is needed for each of the diversion sites.

PERMIT TO CONSTRUCT

New
Renewal
Modified

PERMIT NO. 01-039
SPECIAL CONDITIONS

Evanston Water Treatment Plant Expansion
PWS#WY5600150

This permit hereby authorizes the applicant:

Evanston, City of
ATTN: Brian Honey
1200 Main St.
Evanston, WY 82930

to construct, install or modify a water treatment plant expansion according to the procedures and conditions of the application number 01-039. The facility is located in SE/4, Section 21, Township 15 North, Range 120 West in the county of Uinta, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by 7/1/2004.

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: SRF Program, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 7-7781; 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



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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July 5, 2001

Brian Honey, City Engineer
City of Evanston
1200 Main Street
Evanston, WY 82930

RE: WQD Permit to Construct No. 01-039, Evanston Water Treatment Plant Expansion

Dear Mr. Honey:

The enclosed Chapter III Permit to Construct authorizes the City of Evanston to construct the expansion to the water treatment plant. On May 3, 2001, Wyoming Department of Environmental Quality/Water Quality Division (WDEQ/WQD) sent a letter to you with comments regarding the Permit to Construct Application. Your letter dated June 25, 2001 addressed WDEQ/WQD's comments.

In reference to your June 25, 2001 letter, the City of Evanston agrees to add additional lagoon storage as the population grows. Undeveloped land (i.e., city owned land to the west and State Hospital land to the north) is available for expansion. WDEQ/WQD reminds the city that a Chapter III Permit to Construct will be required prior to constructing the new lagoon cells.

Please call me directly about any questions regarding this letter and Permit to Construct (307.777.7267).

Sincerely,

Phillip Stump
Phillip Stump, P.E.
Senior Analyst
Water Quality Division

PBS/mad/11677-ltr

Enclosure: Chapter III Permit to Construct No. 00-039

- cc: Brian Mark, Program Principal, SRF Program (encl)
- Doyle Conklin, WQD Lander (encl)
- Mike Hackett, WWDO (w/o encl)
- Paul D. Fischer, Project Manager, & Vinnie Hart, Project Engineer, Burns & McDonnell, 7400 East Caley Avenue, Suite 100, Englewood, CO 80111 (encl)
- Bob Clement, USEPA Region VIII, 8P-W-MS (encl)

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.

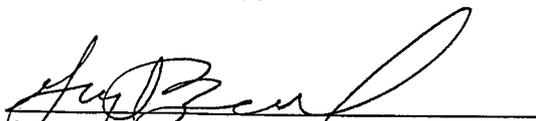
The issuance of this permit does not convey any property rights in either real or personal property or an invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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 Cheyenne 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 Cheyenne 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.
- 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

7/6/01

Date of Issuance

1) Unlike most conventional sedimentation basins which rake sludge to a central location and concentrate the sludge prior to discharge, the bottom of the proposed basin is flat and a vacuum system is utilized for sludge removal. The smaller 4 inch piping limits the flow rate and the amount of water flowing through the sludge removal piping. Hundreds of water treatment plants across the country have vacuum solids systems with this smaller 4 inch diameter piping. No sludge accumulation problems in the piping have been reported. A deviation is recommended.

2) The basin bottom is minimal because the vacuum collection equipment travels on a rail the entire length of the basin unlike a conventional system where a sloped bottom facilitates the pushing of solids to a collection drain. A deviation is recommended.

3) With the largest filter out of service the hydraulic loading is 5.4 gpm/sq. ft. at 18 million gallons per day. Burns & McDonnell's November 6, 2000 letter indicated that the City would run one filter at elevated loading rate for the specified period of time in lieu of pilot testing. The tests shall be performed on the filter during initial start-up operations and the results will be submitted to WDEQ/WQD. Per Wyoming Water Quality Rules and Regulations, Chapter XII Section 5, a deviation is recommended.

4) The backwash system is sized to provide 20 gpm/sq. ft. when in water-only mode. The concurrent air/water wash will only require 8-10 gpm/sq.ft. while the air is 2 scfm/sq. ft.. The use of air decreases the density of the water and allows the particulate matter to fluidize at a lower upflow rate. A deviation is recommended.

5) The present 1 million gallons of volume in the sludge storage lagoons is adequate for the existing plant which is rated at 8.0 million gallons per day. As the population grows, Evanston agrees to build additional lagoons to handle the increased production of backwash and sludge blowdown flows. A deviation is recommended.

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).

1) Chapter XII Section 10.(c)(i) requires the mixing intensity of mechanical mixers, the minimum Gt (velocity gradient (sec^{-1}) x t (sec)) provided at maximum daily flow to 27,000. In the Design Report, Gt equals 15,000 with $G = 1000 \text{ sec}^{-1}$ at a 15 second detention for 10.0 million gallons per day. Variances for this regulations were allowed for minimum Gt values under WDEQ/WQD permitting of the Shoshone Municipal Water Treatment Plant (Policy No. 14.8.2); therefore, this deviation is allowable.

2) Chapter XII Section 10(e)(vii) requires the velocity through settling basins to not exceed 0.5 ft/min. In the Design Report the flow-through velocity = 1.22 ft./min. WDEQ/WQD permitting of the old Evanston Water Treatment Plant Expansion (Policy No. 14.8.3) allowed 1.5 to 1.75 ft/min; therefore, this deviation is allowable.

3) Chapter XII Section 10(i)(ii)(b)(IV)(5) requires that a surface wash system is provided. WDEQ/WQD permitting of the Shoshone Municipal Water Treatment Plant (Policy No. 14.8.2) allowed for the variance to not require a surface wash system because of the use of air scour; therefore, this deviation is allowed.

4) Chapter XII Section 10(i)(ii)(b)(VI) requires that acceptable filter bottoms and strainer systems are provided. WDEQ/WQD permitting of the Shoshone Water Treatment Plant (Policy No. 14.8.2) allowed the use of plastic nozzles, therefore, the deviation to use plastic nozzles is allowed.

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

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.)

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 Phillip Stump, Senior Environmental Analyst, and completed on July 5, 2001. 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

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

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 01-039
- 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.
- No
- B. Permit includes deviations from applicable regulations in accordance with Section 5, Chapter XI, or XII.
- Yes
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
- Yes
- 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.
- 1) Chapter XII Section 10.(e)(viii) requires that sludge removal pipes shall not be less than 6 inches in diameter.
 - 2) Chapter XII Section 10.(e)(xi) specifies the sedimentation basin bottoms shall slope toward the drain.
 - 3) Chapter XII Sections 10.(i)(ii)(B)(I) limits the maximum high rate filter loading to 5.0 gpm/sq.ft.
 - 4) Chapter XII Sections 10.(i)(ii)(B)(IV)(1) requires a minimum backwash flow rate of 20 gpm/ft².
 - 5) Chapter XII Section 10.(u)(iv)(A) requires alum sludge storage lagoons be sized to provide 100,000 gallons capacity for each 1,000,000 gallons per day plant capacity.
- B. Briefly state the basis for the deviation.



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Department of Environmental Quality

Jim Geringer, Governor

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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May 3, 2001

Brian Honey, City Engineer
City of Evanston
1200 Main Street
Evanston, WY 82930

RE: WDEQ/WQD's Permit to Construct WQD# 01-039

Dear Mr. Honey:

On March 20, 2001, the Wyoming Department of Environmental Quality/Water Quality Division (WDEQ/WQD) sent a review to you with comments regarding the Permit to Construct application. A letter from Mr. Paul Fischer and Mr. Vincent Hart (Burns & McDonnell, April 9, 2001) addressed most of the WDEQ/WQD's review comments. I am writing to you in regard to the comments that have not been completely addressed.

1. Because the Town of Evanston will receive 1st round SRF monies, the pre-qualified bidding general contractors must perform "Good Faith Efforts" to solicit participation of minority-owned and women-owned businesses (MBE/WBE). The enclosed Memorandum includes forms for the general contractor to document the "Good Faith Efforts" and for notification of the intent to sub-contract to a MBE/WBE firm.
2. In the November 6, 2000 letter, Burns & McDonnell requested that the Town of Evanston 'be allowed to run one filter at the elevated loading rate for the specified period of time in lieu of pilot testing.' WDEQ/WQD requests that these tests are performed on an existing and new filter unit during the initial start-up operations. The results shall be submitted to WDEQ/WQD at that time.
3. The expanded water treatment plant will increase the backwash and sludge blowdown flows to the two lagoons. In reference to the April 9, 2001 Burns & McDonnell letter, 'the City has stated the existing system has been previously sized appropriately for the plant expansion and no work to the system is required.' Please confirm with design calculations (i.e., inflow, recycling, detention, and evaporation) that the lagoons have the capacity for the additional flows and the additional sludges.

Brian Honey
May 3, 2001
Page 2

4. Mr. Pat Troxel, DEQ/SHWD, Lander has stated that Mr. Rex Fruits, Uinta Co. landfill manager shall require the appropriate testing be performed on the waste sludges (i.e., paint/filter test, etc.) prior to disposal. Please confirm that these tests will be performed on the sludges prior to disposal in the Uinta Co. landfill.
5. In reference to the SRF Project Requirements of Volume 1 of II Bid Documents, Exhibit 1 and Exhibit 2 of the Equal Employment Opportunity section are not applicable and should be eliminated.
6. WDEQ/WQD reminds the applicant that according to the April 9, 2001 Burns & McDonnell letter: "An O&M shall be provided to WDEQ/WQD during the construction phase of the job."
7. As previously stated the EPA Region VIII Safe Drinking Water Program recommends that the Town begin performing monthly sampling of raw water for Total Organic Carbon (TOC) in anticipation of the Disinfection and Disinfection By-Products Stage II rule requirements.

Please call me directly about any questions regarding this letter (307.777.7267). I look forward to discussing these issues with you in the near future.

Sincerely,

Phillip Stump
Phillip Stump
Senior Analyst
Water Quality Division

PBS/bb/101000.ltr

Encl: State Revolving Funds Memorandum

cc: Arvel Eastman, City of Evanston
Bob Clement, USEPA Region VIII, 8P-W-MS, 999 18th St., Suite 300, Denver, CO 80202-2466
Mindy Mohr, USEPA Region VIII, 8P-HW, 999 18th St., Suite 300, Denver, CO 80202-2466
Paul D. Fischer, Project Manager, Burns & McDonnell, 7400 East Caley Avenue, Suite 100, Englewood, CO 80111
Vincent Hart, Project Engineer, Burns & McDonnell
Mike Hackett, WDO, Cheyenne
Pat Troxel, DEQ/SHWD Lander
Doyle Conklin, DEQ/WQD Lander
Brian Mark, Supervisor, SRF Program
Rex Fruits, Landfill Manager, Uinta County, 225 9th St., Evanston, WY 82930



GERINGER
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Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

NOTIFICATION OF COVERAGE

March 21, 2001

Emmett Knox
Sulphur Creek LLC
34 County Road 3CXS
Cody, WY 82414

RE: Sulphur Creek Development, Permit Number 01-040R
Park County

Dear Mr. Knox:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Water Distribution and Sewage Collection Systems in accordance with Chapter 3, Section 7(a)(ii) of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the facility(ies) in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, O of the general permit.

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

Sincerely,

Jeff Hermansky
Northwest District Supervisor
Water Quality Division

cc: IPS, Cheyenne
encl: Public Water Distribution Systems
Extensions of Sewage Collection Systems



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NOTIFICATION OF COVERAGE

September 17, 2001

Jeff Heitsch
4750 Mountain Road
Cheyenne, Wyoming 82009

RE: Heitsch Seasonal Cabin Sewer System, Application No. **01-041**
Location: SW 1/4, Section 03, Township 27N, Range 69W, Platte County

Dear Mr. Heitsch:

The above application for coverage under General Permit to Construct, Install, Modify, or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

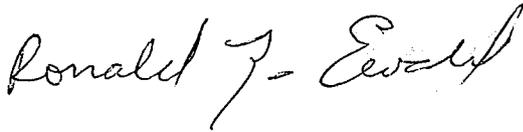
1. Leachfield Header Piping - The piping from the outflow of the septic tank to the head of the two leachfield trenches shall be laid out such that the flow is split equally before it gets to the beginning of either trench. Tees immediately at the head of a trench are not allowed. Additionally, the two trenches shall be spaced at least 7 feet apart, centerline (CL) to centerline. Please refer to amended trench piping layout sketch (in red) on plan sheet.
2. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the tank** must be extended to the ground surface.
3. Polyethylene Septic Tank Installation Requirements - To ensure structural integrity, the **manufacturer's instructions** regarding filling the tank with water during burial and immediately after pumping it out, **must be followed during installation** and clean-outs.

Mr. Heitsch
September 17, 2001
Page 2

The approval granted under this Notification Of Coverage and the General Permit shall expire on September 17, 2003. Please reference Application Number 01-041 in any future correspondence.

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

Sincerely,



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

RLE/bb/12393.ltr

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Schedule Card
Certificate of Completion

cc: IPS, Cheyenne
Kurt Price, Price Pump Co., P.O. Box 562, Wheatland, Wyoming 82201



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NOTIFICATION OF COVERAGE

February 26, 2001

Mr. Harry LaBonde, Interim City Manager
City of Laramie
P.O. Box C
Laramie, WY 82073

RE: Laramie Water Main Replacement in Alley between Reynolds and Curtis St and in Hancock St.
Application No.01-042, Albany County

Dear Mr. LaBonde:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No.01-042 in any future correspondence.

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

Sincerely,

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

LBH/mad/10499.ltr

cc: IPS, Cheyenne

R.D. Juve, City of Laramie
P.O. Box C
Laramie WY 82073



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

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

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

February 26, 2001

Mr. Harry LaBonde, Interim City Manager
City of Laramie
P.O. Box C
Laramie, WY 82073

RE: Laramie Water Main Replacement in Sanders Street from 9th to 13th
Application No.01-043, Albany County

Dear Mr. LaBonde:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No.01-043 in any future correspondence.

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

Sincerely,

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

LBH/mad/10500.ltr

cc: IPS, Cheyenne

R.D. Juve, City of Laramie
P.O. Box C
Laramie WY 82073

PERMIT TO CONSTRUCT

New
Renewal
Modified

PERMIT NO. 01-044
SPECIAL CONDITIONS

2001 SANITARY SEWER MAIN IMPROVEMENT DOWNTOWN AREA II

This permit hereby authorizes the applicant:

City of Casper
200 North David
Casper, WY 82601

to construct, install or modify a formed in place pipe liner inside of existing clay pipe and replace some existing sewer lines according to the procedures and conditions of the application numbers 01-044. The facility is located in the NW/4 of Section 9 T33N R79W 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.

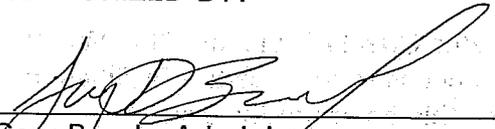
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the 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 Casper Field 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 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 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 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".

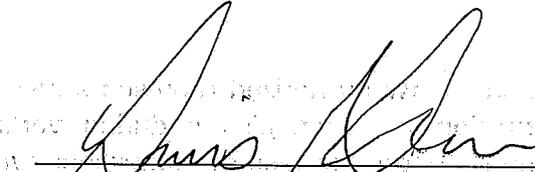
AUTHORIZED BY:



Gary Beach, Administrator
Water Quality Division

March 28, 2001

Date of Issuance



Dennis Hemmer, Director
Department of Environmental Quality

JDL/mad/10636.ltr

Enclosures: Notification Post Card
Certificate of Completion
Statement of Basis

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 01-044
- 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.
- No
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
- Yes
- 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.
- Section 9 of Chapter 11 does not address formed in-place pipe liners.
- B. Briefly state the basis for the deviation.
- Several previous department permits have allowed the use of this technology. ASTM standards for this process are included in the application and the engineer/contractor has been requested to identify potential difficulties prior to installation and document the success of the in-place liner in dealing with the problems after the project is done.
- 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 17, Chapter III (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 Northeast District Supervisor, and completed on March 22, 2001. 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."

¹Sediment 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. 01-045
SPECIAL CONDITIONS

Whiskey Buttes Field

This permit hereby authorizes the applicant:

Amoco Production Company
P.O. Box 157
Wamsutter, WY 82336

to construct, install or modify groundwater monitoring wells, soil borings, and a Free Phase Hydrocarbon Fluid Recovery System according to the procedures and conditions of the application number 01-045. The facility is located in NE SW, Section 3, T21N, R112W in the county of Lincoln, 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: WDEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; telephone (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1. of 9 No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division. All monitoring wells will be constructed and maintained according to WQD guidance as outlined in GPC Guidelines #1, 2, and 3. After the monitoring well(s)/piezometer(s) have fulfilled their purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements.
2. of 9 WDEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitoring well(s)/piezometer(s) and sample collection so that they may be on site if deemed necessary.
3. of 9 Field Documentation of Design, Construction and Installation of Monitoring Wells:
 - a. The following information shall be documented during actual construction and installation of monitoring wells. The information shall be submitted to the Water Quality Division before or at the time of the first monitoring report.
 - i. Date/time of construction.
 - ii. Person developing information/other person(s) on site and their association to the project.
 - iii. Drilling method and if drilling fluid was used.
 - iv. Well location (\pm 0.5 ft.).
 - v. Well depth (\pm 0.1 ft.).
 - vi. Bore hole diameter and well casing diameter.
 - vii. Drilling and lithologic logs (including visual, olfactory, and vapor detection observations).
 - viii. Casing material.
 - ix. Screen materials and design/location.
 - x. Casing and screen joint type.
 - xi. Screen slot size/length.
 - xii. Filter pack material/size, grain analysis.
 - xiii. Filter pack volume calculated/actually installed.
 - xiv. Filter pack placement method/location.
 - xv. Sealant (annular space) materials.
 - xvi. Sealant volume used.
 - xvii. Sealant placement method/location.
 - xviii. Surface seal design/construction.
 - xix. Well development procedure used.
 - xx. Type of protective well cap (top and bottom).
 - xxi. Surveyed elevation (\pm 0.01 ft. Mean Sea Level) of:
 - (1) ground surface

- (2) surveyor's well reference point
- (3) top of well casing
- (4) top of protective structure
- xxii. Location of well number stamp or identification marking.
- xxiii. Detailed 'as-built' construction drawing of well, including dimensions to all well features.

NOTE: The detailed drawing(s) to be submitted must indicate all well features with relation to stratigraphic sections.

- xxiv. Method of down hole equipment decontamination between wells.

4.of 9 The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).

5.of 9 The results of any analyses conducted on soil or water removed from these wells/piezometers or boreholes shall be provided to the department as soon as they are available.

6.of 9 ***Environmental Monitoring Program for Groundwater of the State:***

- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity and performed in accordance with WDEQ or EPA approved Standard Procedures or Quality Assurance/Quality Control (QA/QC) Plan.
- b. The permittee shall maintain records of all monitoring information for a period of at least 3 years.
- c. Records of monitoring information shall include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The name(s) of individual(s) who performed the sampling or measurements;
 - iii. The Mean Sea Level elevation of the water table to the closest .01 ft., and the depth to water (to the closest .01 ft.) from a marked measuring point at the top of casing.
 - iv. Sampling procedures and sample preservation accomplished;
 - v. The date(s) analyses were performed;
 - vi. Names of individuals who performed the analyses;
 - vii. The analytical techniques or methods used; and
 - viii. The results of such analyses.
 - ix. Monitor wells shall be sampled and the groundwater analyzed as indicated on the following table.

WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT
*All wells	Semi-annual	EPA 8020	BETX	-----NA---
*All wells	Semi-annual	EPA 8015M	TPH-GRO	-----NA---

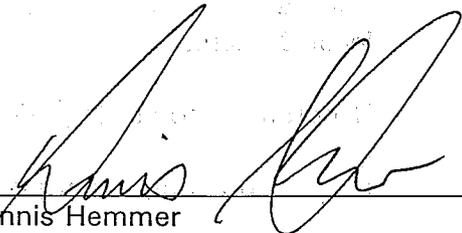
*Wells containing free phase hydrocarbon (FPH) do not need to be sampled for dissolved phase contamination.

- 7.of 9 Sample collection, preservation, transportation, and laboratory analytical procedures shall be completed in accordance with WDEQ or EPA approved Standard Procedures or Quality Assurance/Quality Control (QA/QC) Plan.
- 8.of 9 The permittee will submit an annual report which contains all applicable data and site history for the preceding year. This includes analytical results, contaminant recovery volumes, a description of recovery operations and any associated problems, an evaluation of remediation progress at the site, and plans for, or modifications to, the next years field work.
- 9.of 9 The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of well(s)/piezometer(s) shall be installed to define the nature and extent of the contamination.

AUTHORIZED BY:



 Gary Beach
 Administrator
 Water Quality Division



 Dennis Hemmer
 Director
 Department of Environmental Quality

3-13-2001

 Date of Issuance

MFT/bb/10512.ltr
 cc: IPS, Lander

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

250 Lincoln Street
Lander, Wyoming 82520
(307)332-3144

SITE NAME: Whiskey Buttes #13
SITE STATUS: SITE REMEDIATION
APPLICANT: Douglas Miller
Amoco Production Company
P.O. Box 157
Wamsutter, WY 82336

ENGINEER/
CONSULTANT: Thomas Kreutz
ThermoRetec
1726 Cole Blvd., Bldg. 22,
Golden, CO 80401-3213

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 01-145

EXISTING NEW AS BUILT

TITLE: BP Amoco Whiskey Buttes 13 Condensate Remediation Site, Lincoln County, Granger, WY, 2000 Annual Groundwater Monitoring Report and Remedy Proposal

PLANS SPECS PROPOSAL REPORT
[Check all that APPLY]

DATE ON PROPOSAL/PLANS/REPORT: January 18, 2001 (Cover Letter dated 12/22/01 - Date stamped 1/25/01)
New Remedy Proposal dated November 17, 2000.

IS THIS PROPOSAL SUBMITTED PURSUANT TO:
'CONDITIONS' TO ANY WQD PERMIT? NO YES (GPC Permit 99-315)

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

REVIEWING OFFICIALS: _____
Mark Thiesse, PG

Sterling Roberts, P.E.

DATE OF THIS REVIEW: February 20, 2001

ACTION: Approved as submitted

COMMENTS: GROUNDWATER SECTION

1.0 SUMMARY OF EXISTING CONTAMINATION:

1.1 Site Description. The Amoco site is located in the Whiskey Buttes Field, which is approximately 10 miles east of Opal, Wyoming in Lincoln County. Petroleum condensate was detected on the water table during the abandonment of "shot holes."

1.2 Hydrogeology. Groundwater was observed in the shot holes at 60 feet. The near surface geology is comprised of the Laney Member of the Green River Formation, which consists of oil shale and sandstone and the Bridger Formation which consists of tuffaceous sandstone and claystone with local marlstone and conglomerate deposits. The hydrogeology was further defined during the November 1997 investigation. A discontinuous, relatively thin, unconfined water bearing zone was encountered in some of the borings. This zone is laterally discontinuous, mostly in claystone and sandstone fractures and in semi-consolidated fine grained sandstones. A well (MW-4) was sampled and analyzed to determine the groundwater classification, however the well that was sampled had hydrocarbon contamination and appears to be down gradient of the site. A different well will be required to be sampled during the next event in order to classify the groundwater.

1.3 Potential Sources. Potential sources of the condensate include production pipelines, well casings and a former tank battery. Amoco has not observed any releases from these potential sources. The March 6, 1998 and September 22, 1998 investigation reports did not identify the source(s).

2.0 CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

2.1 March 1998 Investigation Report

2.1.1. Soil Vapor Survey. Inberg-Miller performed a soil vapor survey in an attempt to determine the source(s) as well as the near surface horizontal extent of hydrocarbons. A photoionization detector (PID) was used to detect condensate vapor. VOC, O₂, CO₂, and CH₄ concentrations were also measured to delineate the near surface extent of the condensate. Eleven (11) soil vapor points were analyzed. No VOC's were identified during the survey. Vapor point #3 showed minor biological activity related to possible biodegradation of hydrocarbons.

2.1.2. Drilling and Soil Sampling. Seven (7) soil borings were performed during the investigation which occurred in November 1997. The well cuttings were screened using a PID during the drilling. Borings 1, 2, 3, and 5 had indications of hydrocarbon contamination near the groundwater table (50 - 70 feet below the surface). Samples were taken from all of the borings at or near the interval with the highest PID readings for laboratory analysis. Borings 1, 3, 4, and 5 had TPH-GRO and/or TPH-DRO (EPA Method 8015 Modified) identified at concentrations below the 100 mg/kg WDEQ/WQD action level for a site with groundwater at depths greater than 50 feet. The other borings (2, 6, and 7) were non-detect for TPH-GRO and TPH-DRO.

2.1.3. Groundwater Monitor Wells. The seven soil borings were converted to groundwater monitoring wells and an existing shot hole (#104) was also converted into a groundwater monitoring well (#8) for a total of eight (8) wells. The water elevations were measured at three different occasions, and analytical samples were taken once (12/1/98) from wells MW-1 and 4. Wells MW-2, 5, 6, and 7 were dry on 12/1/98; wells MW-3 and

8 had free phase hydrocarbon (FPH) condensate in them (0.56' and 0.30' respectively) and therefore, the groundwater was not sampled. The groundwater samples were analyzed for TPH-DRO and TPH-GRO (EPA Method 8015 Modified) and BETX (EPA Method 8020). Wells MW-1 and 4 had BTEX and TPH-GRO and/or TPH-DRO results significantly above WDEQ/WQD action levels.

2.1.4 March 1998 Investigation Report Conclusions/Recommendations The following conclusions and recommendations were provided by the consultant:

- a. The source was not discovered, however, based on the distribution of the FPH, an old production pipeline is a definite possibility.
- b. The horizontal extent of the contamination has not been defined.
- c. Well MW-8, the old shot hole, has a higher hydraulic conductivity due to increased fracturing from the shot.
- d. Preliminary indications suggest that natural attenuation is taking place in the soil.
- e. There is little risk to human health and the environment associated with the site because of the remote location and lack of aquifer use.
- f. They recommended that all wells, excluding those that contain FPH and well MW-1, need to be purged and sampled again. Additional wells would need to be installed if these wells do not define the extent of contamination.
- g. They also recommend that natural attenuation be used to remediate the site.

2.2 September 1998 Investigation Report

2.2.1. Project Summary. This report presents the results of a follow-up investigation to the November 1997 investigation. In May and July 1998, nine (9) additional monitoring wells were installed to define the vertical and horizontal extent of the dissolved phase and FPH groundwater contamination and to try to locate the source(s) of the hydrocarbon. Soil from the wells was screened in the field with a PID and selected soil samples were sent to a lab for TPH-DRO and TPH-GRO (EPA method 8015 modified) analyses. Groundwater samples were taken from wells that had only water in them, several of the wells were dry or contained FPH. The groundwater was analyzed for BTEX (EPA Method 8020) only. Water elevations were measured in all existing monitoring wells. Because of the FPH and the fractured nature of the water bearing zone, the consultant was not able to draw a potentiometric surface map that identified the groundwater flow direction.

2.2.2. Soil Results. The PID screening of the soil showed that, for the most part, soil contamination was located at the water table. Analytical results for TPH-DRO and TPH-GRO were all below the WDEQ/WQD action levels of 100 mg/kg for groundwater greater than 50 feet below the ground surface. None of the soil analyses indicated a potential source location (i.e., hydrocarbon contamination at or near the surface).

2.2.3. Groundwater Results. As mentioned above, some of the wells that were installed were not sampled because they did not contain water. These wells are MW-15, 16, and 17. Some of the wells (MW-2, 6, 7, and 13) that were installed in 1997 were dry initially, but had sufficient water in them during this sampling event to obtain a water level reading. However, these wells did not recharge sufficiently to obtain a groundwater sample. Wells MW-3, 5 (maximum FPH thickness at the site - 9.7 feet), 8, 9, and 10 contained FPH and

were not sampled. That left wells MW-1, 4, 11, 12, and 14 as wells that were sampled and analyzed for BTEX (EPA Method 8015 modified) contamination in groundwater. Wells MW-1, 4, and 14 had at least one BTEX compound over WDEQ standards.

2.2.4. Report Conclusions/Recommendations. The consultants presented the following conclusions and recommendations in the September 1998 report:

- a. The report concluded that the primary source of condensate at the site is from the condensate product pipeline. This is based mainly on the fact that the thickest condensate accumulation was in well MW-5 which is located next to the pipeline. The report also suggests that the tank battery is also a likely source of condensate at the site. This is based on the presence of volatile hydrocarbons in the soil near the tank battery at depths less than 20 feet. Because very little condensate was identified in the groundwater and the soil near the tank battery, the report concludes that the release is old and natural attenuation has degraded most of the soil contamination.
- b. The report states that "... the horizontal extent of free product has been defined." The extent of the dissolved phase contamination has been defined except "... in the vicinity of MW7998-4."
- c. Blasting in the shot hole (MW-8) has increased the hydraulic conductivity in the vicinity and may have created a preferential pathway towards well MW-8, thereby allowing FPH to accumulate in the well.
- d. No receptors have been identified in the area.
- e. The report recommends natural attenuation as the best remedy for the site.
- f. Because no soil contamination above WDEQ/WQD action levels was identified, no soil remediation is required.

2.3 Corrective Action Plan. A Corrective Action Plan (CAP) was submitted as required by WQD Permit #97-451. The CAP summarizes the previous investigations and the results of several remediation technology pilot tests at the site. The objective of the CAP is to evaluate and propose a final remedy that will effectively remediate the FPH and dissolved phase groundwater contamination at the site.

2.3.1 Investigations. The historic investigations are summarized above. In April 1999, ThermoRetec installed two additional down gradient monitoring wells and sampled the existing wells. The two new wells, MW-18 and MW-19, did not have sufficient water for sampling in April. The wells were sampled in May. Well MW-18 was non-detect for BTEX and TPH-GRO. Groundwater in well MW-19 contained low concentrations of benzene, toluene, and xylene.

2.3.2 Selected Remedy. The CAP provides a summary of the remedies that were pilot tested at the site. The technologies were selected based on the low permeable soils, the relatively low volumes of contamination available for recovery (due to the fractured nature of the soil), and the lack of available power to run a system. The first technology evaluated was in October 1998, which was a passive wind turbine ventilator designed to draw a vacuum on the test well. Four wells were used in this pilot test. It was found that the turbines did not generate sufficient vacuum to overcome the low permeable soils which resulted in low mass removal rates. In February 1999, an active soil vapor extraction (SVE) system was field tested. The active system consisted of an internal combustion engine that

was designed to run on the vapors recovered from the wells which contain FPH and high concentrations of dissolved phase hydrocarbons. The five wells that were tested did not provide sufficient hydrocarbon concentrations to keep the engine running. Another passive system, called the "Baroball", is currently undergoing further evaluation. This system is a one-way valve that generates low pressure in the well bores using the diurnal variations in the barometric pressure. Preliminary data indicates that the technology does reduce the amount of condensate in the monitoring wells, however, more data need to be collected before determining if the technology is feasible for this site.

ThermoRetec and Amoco have selected enhanced fluid recovery (EFR) and natural attenuation (NA) as the long term remedy for this site. The use of baroballs will continue to be evaluated. EFR technology relies on suction to remove FPH, groundwater, and soil vapor simultaneously from the well bore. EFR will be performed at all wells with FPH present, initially on a weekly basis, decreasing to a bi-monthly (every two weeks) schedule after 2 to 4 months. Details of the scheduling and alternate plans are described in the CAP. The closure criteria for the EFR operations are also described in detail. Basically, the EFR will be discontinued when the FPH thicknesses decrease to approximately 1 inch for a period of three months. The well will be re-measured after 6 months to ensure the FPH has not rebounded. If the thickness rebounds, EFR will be restarted for that well. EFR will continue until the FPH levels in all the wells remains below 1 inch for a period of 6 months.

Following the recovery of the FPH, Amoco will begin to monitor the NA process. The CAP states that NA parameters will be monitored until closure criteria are met. NA closure criteria "...will consist primarily of demonstrated, continuous downward trends in the concentrations of dissolved-phase BTEX constituents over time." Amoco will submit semi-annual reports to the WQD for review during the remediation of the site.

2.4 1999 Annual Report. The 1999 annual report provides a summary of the activities at the site for 1999. This includes analytical results, FPH recovery volumes from EFR operations, and recommendations for 2000 activities.

2.4.1 Analytical results. All the wells at the site, except for those containing FPH, were sampled for BTEX and TPH-GRO in April, August, and October 1999. The results indicate that the plume appears to be stable and not migrating down gradient away from the site. It also appears that the EFR operations have reduced the BTEX and TPH-GRO concentrations in the wells located along the periphery of the plume. For example, well MW-11 has shown a decrease in benzene concentrations from 20.4 µg/l in April 1999 to 3.57 µg/l in October 1999. Concentrations of dissolved phase contaminants in the interior wells remain well above MCL's. For example, benzene concentrations vary from 1,800 µg/l in well MW-7 to 18,600 µg/l in MW-4.

2.4.2 EFR Operations. Eleven EFR events were performed in 1999 at the wells that contained FPH. A total of approximately 175 gallons were recovered from wells at the site. The data showed that the areal extent and the average thickness of FPH was greatly reduced during 1999. In April 1999, prior to the first EFR event, 5 wells had FPH present with a maximum thickness of 12.51 feet. On December 20, 1999, FPH was found in 4 wells with a maximum thickness of 1.01 feet. The EFR operations will continue until no further FPH is found. Then, as natural attenuation is being monitored, if any FPH reappears, EFR will

resume. The use of Baroballs as described in the CAP was discontinued in August 1999. No measurable benefits were obtained.

2.4.3 Recommendations. ThermoRetec and Amoco propose to continue operations at the site. They will continue the EFR operations on a bi-weekly basis until all FPH is recovered. All monitoring wells at the site, that do not contain FPH will be sampled for BTEX and TPH-GRO on a semi-annual basis. Once the FPH is removed, natural attenuation parameters will be collected in anticipation of a final remedy of monitored natural attenuation (MNA). And finally, they will install one additional well on the southeast side of the site to completely define the extent of the dissolved phase hydrocarbon plume.

2.5 Remedy Modification Proposal. In November 2000, BP Amoco submitted a request to modify the current EFR process. They provided the EFR recovery data to date, and explained why they thought a new system was required. The new system would use pumps in wells with measurable accumulations of FPH, equipped with hydrophobic filters to allow the removal of only FPH. The pumps are driven by a solar powered air compressor and would operate on timers that would engage when an appropriate thickness accumulates, currently planned to be about 30 minutes a day. The recovered hydrocarbon would be pumped through a flow totalizer to track the volume recovered, and into a 55 gal. drum equipped with a high level shut off sensor. The recovered fluid will then be collected and placed into the on-site product tank as is currently being done with the fluid collected by EFR.

In wells that have very little FPH (approaching 0.01 feet), absorbent pads that selectively remove hydrocarbons would be used. These pads will slowly absorb the FPH and will be removed and properly disposed of, or would be squeezed out and reused. The recovered fluid would be added to the fluid recovered by the pumps.

2.6 2000 Annual Report and New Remedy Proposal. The 2000 annual report provides the sampling results from the past years events and provides additional information concerning the new proposed remedy. The report also provides the details of the new well construction (MW-20) required by the WQD to delineate the southeastern extent of the dissolved phase plume, and provided a summary of the EFR operations. Groundwater sampling was performed in all wells that did not contain FPH, for this period that was 13 wells. The samples were analyzed for BTEX using EPA method 8260 and for TPH-GRO using EPA method 8015. Briefly, the results show that the dissolved phase concentrations are remaining steady except for well MW-2 which showed a decrease. Eight (8) of the wells had benzene concentrations above standards. Five wells had FPH present, the maximum thickness was 2.79 feet in MW-9. The new well, MW-20, unexpectedly contained FPH during the October 2000 sampling event. An additional well(s) will be installed farther down gradient, to the southeast, to determine the extent of the contamination.

EFR was performed in the 5 wells that have FPH present. Recovery was performed for most of 2000, however due to operation problems, recovery was not performed in July, September, and October 2000. A total of 294 gallons of fluid was recovered during 2000. The EFR is being continued until the new system is installed.

3.0 REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

3.1 Proposed Remedy Modification. The WQD concurs with the proposed remedy modification. Attached is new permit #01-045 for the operation of the recovery system using pumps and the absorbent pads. An annual report is required to update the progress at the site, to provide a summary of the recovery operations, and to provide the analytical data from the wells sampled for BTEX and TPH-GRO as is currently being performed. The permit also approves the construction of a monitoring well(s) to further define the southeastern extent of the contamination. Please include the "as built" well construction details in the 2001 report. The new recovery system will be considered an "interim" remedy in anticipation of using MNA as the final remedy. Once the FPH is recovered to a point where further active remediation is not thought necessary or efficient, BP Amoco should submit a CAP for the final remedy implementation. If the final remedy is MNA, BP Amoco will need to follow the MNA guideline, which is currently being developed by the WDEQ for the VRP.

3.2 2000 Annual Report. The report was complete and presented all the data in a good format. We agree with the conclusions and the recommendations provided on page 7-1 and 7-2. Our only comment has to do with the statements on pages 2-5, 6-2, and 7-2 concerning the FPH recovery criteria of 0.01 feet. Our objectives for the recovery of FPH is to achieve a maximum thickness of 0.01 feet, or that recoverable thickness deemed "practicable" dependent upon factors such as characteristics of the free-phase hydrocarbon, rate of recovery in the well, permeability and porosity of the formation and related criteria. Therefore, we will evaluate this site based on site specific data to determine when to stop FPH recovery.

3.3 Corrective Action. In my December 11, 2000, letter I asked that BP Amoco choose between following the current, Chapter 3 process or switching to the Voluntary Remediation Program (VRP) process. Your letter of January 22, 2001 has selected continuing along with the Chapter 3 process.

3.4 Engineers Stamp. Because the proposed recovery system is considered to be an "engineered" system, we require an engineers stamp on the plans/design. A letter that says something to the effect of "The plans have been reviewed and approved by an engineer", and stamped by a Wyoming registered engineer, will satisfy the requirement in leu of a stamped design, as long as it is received PRIOR to constructing the system.

END OF REVIEW

THE STATE OF WYOMING



JIM GERINGER
GOVERNOR

ABANDONED MINES



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

NOTIFICATION OF COVERAGE

February 16, 2001

Bill and Kathryn Johnsey
P.O. Box 546
Big Piney, WY 83113

RE: Johnsey Small Wastewater Treatment Facility, Permit Number: 01-046
Big Horn County

Dear Ms. Johnsey:

The above application for coverage under General Permit to Construct a septic tank and leach field in accordance with Chapter 3, Section 7 and Chapter 11, Part D of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

cc: IPS, Cheyenne
encl: General Permit for Small Wastewater Facility



IM GERINGER
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

NOTIFICATION OF COVERAGE

February 26, 2001

Frank H. Schmidt
2455 Bear Creek Road
Shell, WY 82441

RE: Double Doc Ranch Residential Small Wastewater Treatment Facility,
Permit Number: 01-047
Big Horn County

Dear Mr. Schmidt:

The above application for coverage under General Permit to Construct a septic tank and leach field in accordance with Chapter 3, Section 7 and Chapter 11, Part D of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

Changes 1) A cleanout is required where the sewer service from the mobile home changes direction and turns approximately 90° and ties into the septic tank.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

cc: IPS, Cheyenne
encl: General Permit for Small Wastewater Facility

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 01-048
SPECIAL CONDITIONS

Teton Lumber Site

This permit hereby authorizes the applicant:

Circle L Partners
P. O. Box 190
Lake Geneva, WI 53147

to construct, install or modify groundwater monitoring well(s) according to the procedures and conditions of the application number 01-048. The facility is located in SW, Section 10, T40N, R117W in the county of Teton, 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 when the construction commences and give an estimate of completion for the project. The authorized representative in your area can be contacted at the following address: WDEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; telephone (307) 332-3144; FAX (307) 332-3183.

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

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

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

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

1. of 7 After the monitoring well(s)/piezometer(s) have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.
2. of 7 WDEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of groundwater monitoring wells/piezometers and sample collection so that they may be on site if deemed necessary.
3. of 7 The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).
4. of 7 The results of any other analyses conducted on soil or water removed from these wells/piezometers or boreholes shall be provided to the department as soon as they are available.
5. of 7 ***Environmental Monitoring Program for Groundwater of the State:***
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity and performed in accordance with WDEQ or EPA approved Standard Procedures or Quality Assurance/Quality Control (QA/QC) Plan.
 - b. The permittee shall maintain records of all monitoring information for a period of at least 3 years.
 - c. Records of monitoring information shall include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The name(s) of individual(s) who performed the sampling or measurements;
 - iii. The Mean Sea Level elevation of the water table to the closest .01 ft., and the depth to water (to the closest .01 ft.) from a marked measuring point at the top of casing.
 - iv. Sampling procedures and sample preservation accomplished;
 - v. The date(s) analyses were performed;
 - vi. Names of individuals who performed the analyses;
 - vii. The analytical techniques or methods used; and

viii. The results of such analyses.

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

WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT *
All Monitoring wells	Initial	EPA 8015M EPA 8021	TPH-DRO and TPH-GRO BTEX&N	

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

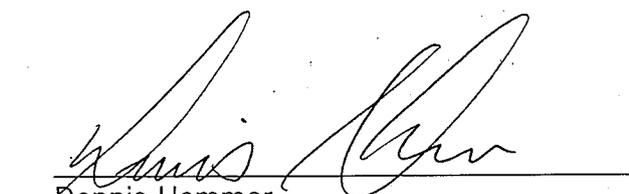
6. of 7 Within sixty (60) days of receipt of the final laboratory analytical data, the Applicant shall submit to WDEQ/WQD a **Site Investigation Report**. The *Report* shall contain the information outlined in the February 15, 2001 Work Plan.

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

AUTHORIZED BY:



 Gary Beach
 Administrator
 Water Quality Division



 Dennis Hemmer
 Director
 Department of Environmental Quality

3-5-2001

 Date of Issuance

MFT/bb/10521.ltr

cc. IPS, Lander

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
250 Lincoln Street
Lander, Wyoming 82520
(307)332-3144

SITE NAME: TETON LUMBER FACILITY

SITE STATUS: SITE CHARACTERIZATION

APPLICANT: Karl Otzen
Circle L Partners
P.O. Box 190
Lake Geneva, WI 53147

ENGINEER/CONSULTANT: Keith Thompson
Maxim Technologies, Inc.
P.O. Box 2599
Casper, WY 82602

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 01-048

EXISTING NEW AS BUILT

TITLE: Work Plan to Evaluate Groundwater Quality at the Former Teton Lumber Site, Teton County, Wyoming

PLANS SPECS PROPOSAL REPORT
[Check all that APPLY]

DATE ON PROPOSAL/PLANS/REPORT: February 15, 2001 (date stamped 2/20/01)

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES (Permit #93-236)

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

REVIEWING OFFICIAL: _____
Mark Thiesse, PG

DATE OF THIS REVIEW: March 1, 2001

ACTION: Work Plan Accepted, Permit 01-048 Issued

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

1.1 Site Description. The 10.6 acre former Teton Lumber facility is located approximately four miles south of Wilson, Wyoming, in the SW 1/4 of Section 10, T40N, R117W. From 1952 until 1979 the site was used as a lumber mill. Several diesel tanks were located on the site, used for fueling vehicles and to power electric generators and an air compressor. The fuel was piped underground to the electric generators and vehicle refueling activities took place at the above ground tanks. Possible leaking underground lines and poor fuel handling resulting in spills from overflows are thought to be the source of the contamination.

1.2 Site History. A Phase I environmental site assessment was performed in 1992 by JB Plunkett and Associates to support a real estate transaction. This assessment (outlined below) revealed the potential for contamination due to the presence of leaks and stained soil. A Phase II assessment was performed later in 1992 which confirmed subsurface soil and groundwater contamination. Additional investigations (outlined below) were performed to further define the nature and extent of contamination at the site. Following the investigations, approximately 30,800 cubic yards of soil was excavated and treated on site to remove the hydrocarbon contamination. A clean up objective of 100 mg/kg was used for the soil. The excavation was backfilled with the clean, treated soil, and the site was thought to be closed. However, no confirmatory groundwater samples were obtained following the excavation. The current proposal will install monitoring wells and sample the groundwater to determine its status.

1.3 Summary of Soil and Groundwater Contamination. Several different phases of investigation have taken place at this site and are summarized below. An estimated 6,300 cubic yards of subsurface soil, in an area of 180 feet by 300 feet, was thought to be contaminated by fuel releases. This estimate was obtained from test pits and trenches constructed during the Phase I and Phase II investigations. The soil samples contained up to 2,200 mg/kg of TPH-DRO, mainly consisting of heavy end hydrocarbons. No benzene or other "light" end compounds were identified. Groundwater samples were collected from three monitoring wells and four excavations and from a test pit and two existing wells at the site. The groundwater samples taken from the suspected source areas had TPH-DRO reading ranging from 3 to 100 mg/l. One sample also had xylene present at 5µg/l.

The size of the excavation was determined by using a cleanup level of 100 mg/kg TPH-DRO in the soil. Confirmation samples were taken from the sides and floor of the excavation prior to back filling. Only a single soil sample near the center of the excavation had a detection over 100 mg/kg, that was at location F-2 which had a reading of 160 mg/kg TPH-DRO using EPA method 8015. The WDEQ, Solid and Hazardous Waste Division (SHWD) was overseeing the soil cleanup and approved closure of the soil excavation.

1.4 Hydrogeology. The facility is located in a narrow alluvial valley, underlain by an unknown thickness of alluvial sediments. The south and west sides of the site are bounded by Mosquito Creek, which flows into the Snake River approximately 600 feet downstream of the site. The alluvium is generally coarse, highly permeable and saturated at a shallow depth. Depths to groundwater range from approximately six feet to nearly 20 feet below the ground surface. The general groundwater flow direction is to the northeast.

2.0 SUMMARY OF WORK COMPLETED TO DATE:

2.1 March 1992 Phase I and Phase II Assessment. In March 1992, JP Plunkett performed a Phase I site assessment for a property transaction. Several areas of potential hydrocarbon contamination were identified and a Phase II investigation was recommended. Later in March, Chen-Northern (a name change from JB Plunkett) performed a Phase II site assessment. Eight test pits were excavated to about 10 feet and soil and groundwater samples were obtained and screened in the field for the presence of hydrocarbons. Based on the field results, several samples were sent off for laboratory analysis. The analyses showed that there was TPH-DRO contamination in both the soil and groundwater. The source of the contamination was thought to be a portable air compressor near the motor house. The Phase II report was sent to the WDEQ in July 1992, and the WQD issued a permit to construct (92-218) for installation of monitoring wells and additional investigations at the site.

2.2 August 1992 Site Investigation. A subsurface investigation was performed by Chen Northern following the approved work plan as permitted by 92-218. The investigation report, dated November 1992, presented the details of the investigation. Three monitoring wells (MW-1, 2, and 3) were installed. The wells were installed using a back hoe to dig a hole approximately 10 feet deep. PVC pipe was placed in the holes and carefully back filled. The wells were sampled and sent to a laboratory for BTEX (EPA Method 602) and TPH-DRO (EPA Method 8015 modified) analysis. Well MW-1 had the only detection, 3 mg/l TPH-DRO.

In September, 1992, after obtaining a permit from the SHWD for excavation and treatment of contaminated soil, Chen Northern returned to the site and began trenching operations to determine the extent of the subsurface contamination. During the trenching, it was discovered that the extent of the contamination was much greater than previously thought. The volume was going to exceed the permitted amount, therefore, the trenching was stopped and test pits were dug to determine the accurate extent of the contamination. An additional well, MW-4, was installed using the same method as previously used. A sheen was observed in several of the test pits and trenches. In September 1992, groundwater samples were taken from well MW-4, two test pits and a trench. MW-4 had the only detections, 27 mg/l TPH-DRO and 5 µg/l xylene. These sample results indicate that groundwater has only been marginally affected by the soil contamination. The soil investigation determined that an area of approximately 180 feet by 300 feet was impacted between depths of 8 to 22 feet.

The report suggested that there were two sources of contamination at the site. The fuel spread north and east, hydraulically down gradient, from the source sites. Approximately 6,300 cubic yards of soil was thought to be impacted above the WQD standard of 100 mg/kg TPH-DRO.

2.3 June 1993 Corrective Action Plan The June 1993 CAP summarized all of the previous field work, evaluated several remedial alternatives, and proposed a final remedy for the site. The final remedy consisted of excavating the contaminated soil and treating it on site, monitoring the groundwater and performing public awareness for the facility. The SHWD authorized the excavation and treatment of the soil, and the WQD authorized the installation and sampling of additional monitoring wells (Permit #93-236), however, no additional wells were ever installed.

2.4 Soil Excavation and Treatment. Between 1994 and 1996 approximately 30,800 cubic yards of soil with TPH-DRO concentrations exceeding the SHWD criteria of 100 mg/kg was excavated and treated on site. Confirmation sampling of the excavation was performed when all the contaminated soil was thought to be removed in an area. The soil cleanup objective was met in August 1996. The treated soil was backfilled into the excavation and the site was released from SHWD oversight in September 1996. However, the WQD still required groundwater monitoring to confirm that the groundwater was clean. This was never performed. Some groundwater data was collected during the excavation process. During excavation, groundwater would flow into the hole, requiring the operator to pump the water out to allow for continued digging. This water was tested periodically as required by a NPDES Permit. Minor amounts of ethylbenzene and xylene were identified, however, the concentrations were well below WQD standards.

2.5 2001 Monitoring Well Installation Proposal. The purpose of the current Work Plan is to confirm that the groundwater is no longer impacted by hydrocarbon contamination at this site. The Plan proposes the installation of four wells in the area of the historic contamination and down gradient of the excavation area. The wells will be installed by a rotary drilling rig, properly cased and completed following WQD requirements. The wells will be developed and sampled for BTEX and naphthalene using EPA Method 8021, and for TPH-GRO and TPH-DRO using EPA method 8015 modified. The analytical results and all construction information will be provided to this office following the receipt of data from the lab.

3.0 REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

3.1 Monitoring Well Work Plan. We do not have any comments or additional requirements on the proposed field work. The attached permit (#01-048), authorizes the construction of the wells and outlines the requirements for the project. Please provide this office a Site Investigation Report within 60 days of receipt of the final analytical data.

3.2 Corrective Action. In my previous correspondence and in several telephone conversations, I explained that Circle L Partners must decide between following the current Chapter 3 process or switching to the Voluntary Remediation Program (VRP) process. Please include this decision with your next submittal. As I explained, the way we will close the site will depend on which process you select. Please contact me or visit our web site (deq.state.wy.us) for more information on the VRP and the choices available to you.

END OF REVIEW

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 01-049
SPECIAL CONDITIONS

Chemical Feed and Emergency Power Building
PWS#WY5600029

This permit hereby authorizes the applicant:

Town of Laramie
PO Box C
Laramie, WY 82073

to construct, install or modify chemical feed and emergency power building at water treatment plant according to the procedures and conditions of the application number 01-049. The facility is located in SW1/4 of Section 23, Township 14 North, Range 76 West 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/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: SRF Program, 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.

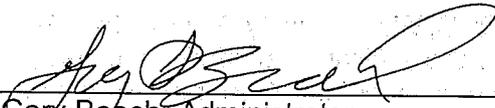
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

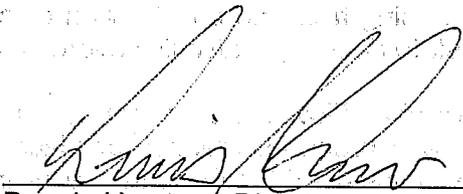
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 1 of 4. The applicant will notify the 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 Cheyenne 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 Cheyenne 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.
- 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

3-19-2001
Date of Issuance

PBS/bb/10602.ltr

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 01-049
- 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.)
- not applicable*
- V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter III¹. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)
- not applicable*
- 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.

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 17.

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 Phillip Stump, Senior Environmental Analyst, and completed on March 14, 2001. 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."

PBS/bb/10602.ltr



M GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

NOTIFICATION OF COVERAGE

March 1, 2001

Michael Hammer
Somerset Wyoming Properties Limited Partnership,
Spring Creek Resort LLC & Spring Creek Land LLC
P.O. Box 2809
Jackson, WY 83001

RE: Spring Creek Ranch Maintenance Facility Water and Sewer Main Extensions
Permit Number: 01-050R
Teton County, PWS # WY5600811 *521 T41 R116*

Dear Mr. Hammer:

The above application for coverage under General Permits to Construct a water distribution system extension consisting of 475 linear feet (LF) of 8 inch DIP water main with a backflow prevention device and appurtenances along with 1801 LF of 8 inch and 307 LF of 6 inch PVC sewer main in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

cc: IPS, Cheyenne

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

Jeff Hermansky, P.E.
District Engineer
Water Quality Division

The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in all financial dealings.

Financial Reporting and Analysis

This section details the various methods used for financial reporting and analysis. It covers the preparation of financial statements, including the balance sheet, income statement, and cash flow statement. It also discusses the use of ratios and other metrics to evaluate financial performance.

The document further explores the role of internal controls in ensuring the accuracy and reliability of financial information. It highlights the importance of a strong internal control system in preventing errors and fraud.

In addition, the text discusses the impact of external factors on financial performance, such as changes in market conditions and regulatory requirements. It provides insights into how organizations can adapt to these changes and maintain their financial stability.

The document concludes by emphasizing the importance of ongoing monitoring and evaluation of financial performance. It suggests that organizations should regularly review their financial data and adjust their strategies as needed to achieve their long-term goals.

Overall, this document provides a comprehensive overview of financial reporting and analysis, offering valuable insights and practical advice for organizations seeking to improve their financial management practices.