

L&F 3-5-81

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: Rocky Mountain Federal Savings & Loan - Cheyenne, WY

ARCHITECT OR ENGINEER: John Parks, McFall, Konkel & Kimball  
3001 Henderson, Suite M, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 81-301R

REVIEWING ENGINEER:  Leroy C. Feusner, P.E.

DATE OF REVIEW: June 3, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide a letter from the City of Cheyenne indicating that they can adequately supply at least 350 gallons/day of drinking water at a minimum pressure of 20 psi under all conditions of flow.
2. Provide a letter from the City of Cheyenne indicating that they can adequately transport and treat the additional hydraulic and organic loading in their sewer and lagoon system.

PERMIT TO CONSTRUCT

Permit No. 81-301RR

- New  
 Renewal  
 Modified

Rocky Mountain Federal Savings and Loan Association  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Rocky Mountain Federal Savings and Loan Association

500 East 18th Street

Cheyenne, WY 82001

to construct, install, or modify a public waster supply and wastewater collection systems facility according to the procedures and conditions of the application No. 81-301RR. The facility is located in Section 20, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

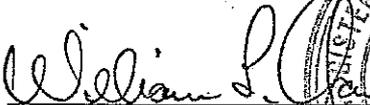
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, 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: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming, 82801; telephone, 672-6457.

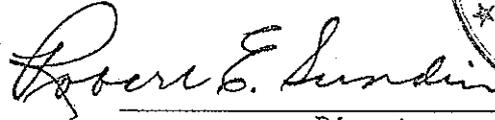
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

AUTHORIZED BY:

  
WILLIAM L. DARLAND  
P.E. # 1479  
Administrator  
Water Quality Division  
STATE OF WYOMING  
REGISTERED PROFESSIONAL ENGINEER

June 24, 1981  
Date of Issuance

  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  
STATE OF WYOMING  
REGISTERED PROFESSIONAL ENGINEER  
NO. 285

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Banner Associates, Inc.  
500 East 18th Street  
P. O. Box 53  
Cheyenne, WY 82001

6-10-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-302

Ref. No. 81-125

Westgate Park IV (US 20 & Seven-Mile Road Development)  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Barnard Lowham Management Company

P. O. Box 567

Casper, WY 82602

to construct, install, or modify a public water distribution and wastewater collection systems facility according to the procedures and conditions of the application No. 81-302. The facility is located in Section 29, R34N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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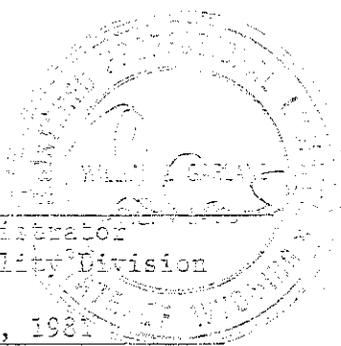
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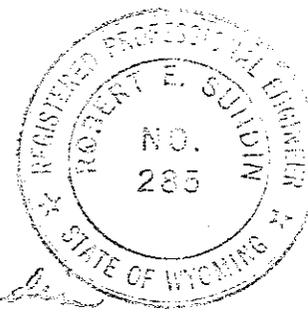
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AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division



  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality



June 5, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: John Donmyer, P.E.  
HWT&B  
P. O. Box 3478  
Casper, WY 82602

PERMIT TO CONSTRUCT

Permit No. 81-303

- New  
 Renewal  
 Modified

Missouri Basin Power Project  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Basin Electric Power Cooperative

1717 East Interstate Avenue

Bismark, ND 58501

to construct, install, or modify a PVC liner with cover and riprap in ash pond cell no. 3 south facility according to the procedures and conditions of the application No. 81-303. The facility is located in Section 28, T25N, R67W in the County of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

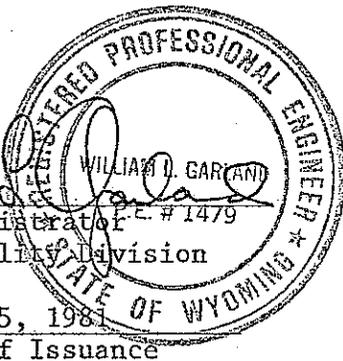
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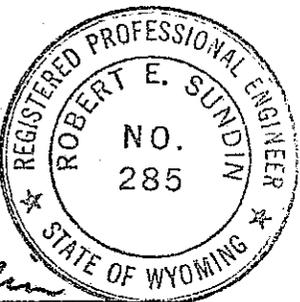
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AUTHORIZED BY:

  
*William L. Garanti*  
Administrator # 1479  
Water Quality Division  
June 25, 1981  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Albert D. Francis  
1717 East Interstate Avenue  
Bismarck, ND 58501

*Department of Environmental Quality**Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7731

November 3, 1981

Robert L. Erickson, P.E.  
Environmental Control Supervisor  
Basin Electric Power Cooperative  
1717 East Interstate Avenue  
Bismarck, ND 58601

✓ Re: WQD Ref. No. 81-303

Dear Bob:

We are currently expecting to meet with yourself and accompanying staff on the morning of November 12, 1981. I am anticipating your establishment of the time pending flight arrangements for Paul Reynolds.

At that time, we would like to review the overall groundwater monitoring program for the Laramie River Station and any items you would like to discuss. The following are some of the items which I would like to consider:

- a) continued monitoring of phenol, mercury and boron;
- b) water quality data on well 7A (the MBPP Transmission Operation & Maintenance potable H<sub>2</sub>O supply) plus the wells drilling log, completion zones, and any other supportive geologic data;
- c) inability of well 9B to produce consistent data due to its shallow depth;
- d) plugging and abandonment procedures for wells now "out of service" (5A, 4B, 5B, 11B);
- e) reporting format and computerized capabilities within your new monitoring program; and
- f) any additional items of mutual interest.

If you need clarification concerning any of these items or can establish the meeting time, please call me at 777-6128.

Sincerely,

A handwritten signature in cursive script that reads "Michael R. Brenoel".

Michael R. Brenoel  
Groundwater Compliance Specialist

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-304RR

CHEVRON CARTER CREEK GAS PROCESSING FACILITY  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Chevron U.S.A., Inc.  
PO Box 599  
Denver, CO 80201

to construct, install, or modify a industrial wastewater treatment ponds and a  
package sewage treatment plant

facility according to the procedures and conditions of the

application No. 81-304RR. The facility is located in

Sec. 6, T18N, R119W

in the County of Uinta,

in the State of Wyoming. This permit shall be effective for a period of Two (2)

years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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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.

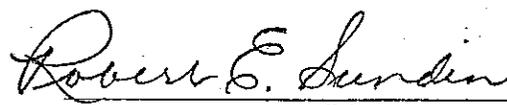
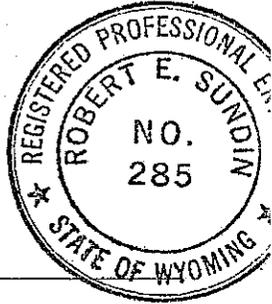
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

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AUTHORIZED BY:

  
Administrator P.E. # 1479  
Water Quality Division  
  
August 10, 1981  
Date of Issuance

  
Director  
Dept. of Environmental Quality  


This permit does not supercede the requirements for obtaining any permit from local agencies.

FL/ch  
8/11/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Carter Creek Gas Processing Facility

ENGINEER: Fluor Corp./Daniel Construction Co.  
P. O. Box 966  
Evanston, WY 82930  
ATTN: Joe Wiley

OWNER: Chevron, U.S.A., Inc.  
P. O. Box 599  
Denver, CO 80201  
ATTN: Jeanette Marshall

WATER QUALITY DIVISION REFERENCE NUMBER: 81-304R

REVIEWING EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: July 31, 1981

ACTION: Not authorized.

COMMENTS: Based upon our July 30, 1981 meeting and my review of the above referenced plans, the following points need to yet be resolved. My comments are in the same order as in the June 4, 1981 review letter.

1. Resolved.
2. Resolved.
3. Resolved.
4. Resolved.
5. Please add line sizes and grades to the sewer line profiles. Sewer line installation specifications are also needed.
6. Resolved.

May 26, 1981 Review Letter

1. Resolved.
- 2(a). Resolved.
- 2(b). The process sludge disposal site has to be verified. If the sludge is to be disposed of at a site owned by someone other than Chevron, a letter is needed from the owner or his representative stating they will accept the sludge. If Chevron elects to develop their own private sludge disposal site, verification is needed from the Solid Waste Disposal Section in Cheyenne, that they will permit this.

3. Resolved.
4. Resolved.
5. Resolved.
6. Resolved.
7. Resolved.
8. Resolved.
9. Resolved.
10. Resolved.

Please submit the required information, in triplicate, to this office. If you have any questions, please call me.

FL:dl

8/3/81

cc: Jake Strohman - Engineering Control Supervisor, Cheyenne DEQ/WQD  
Tony Mancini - Groundwater Control Supervisor, Cheyenne DEQ/WQD  
Steve Jones - Assistant Attorney General

*Cheyenne*

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Carter Creek Gas Processing Facility

ENGINEER: Fluor Corp./Daniel Construction Co.  
P. O. Box 966  
Evanston, WY 82930  
ATTN: Joe Wiley

OWNER: Chevron U.S.A., Inc.  
P. O. Box 599  
Denver, CO 80201  
ATTN: Jeanette Marshall

WATER QUALITY DIVISION REFERENCE NUMBER: 81-304

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: June 4, 1981

ACTION: Not authorized.

COMMENTS:

A review of the proposed wastewater treatment system has been completed. The design data appears to meet Ten State Standards however before the system can be approved, the following additional information is required.

1. A detailed flow diagram is needed. It should show each process to be used in this particular plant.
2. Details (i.e. drawings) are needed of each part of the system. Specifically I am referring to the sludge holding tank, chlorine contact tank and chlorination system, wastewater piping, air piping etc...
3. A qualified operator should be responsible for the operation of the plant. This is not mentioned.
4. Where will the bar screenings and sludge be disposed of?
5. The entire collection system has to be approved. Line profiles, plan views, construction and material specifications, service connection details, etc. are needed to review this portion of the project.
6. Where does the plant discharge to?

page 2

Carter Creek Gas Processing Facility

DEQ #81-304

The rest of the application review contains the same comments raised in my May 26, 1981 review letter on the "as Builts" plans - DEQ #81-217. A copy of that review letter is enclosed for your reference. Please address those points in your reply to this review letter as we discussed during our May 26, 1981 meeting.

Please submit the required information and revised specifications, reports and plans in triplicate to this office. If you have any questions, please call me.

FL/dl

Enclosure

cc: Tony Mancini - Groundwater Control Supervisor, Cheyenne DEQ/WQD



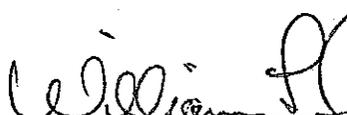
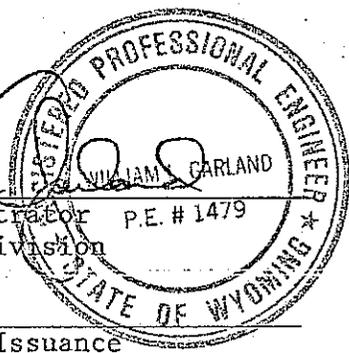
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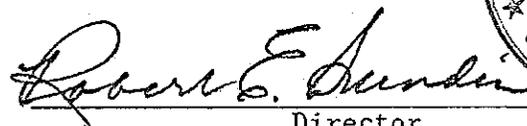
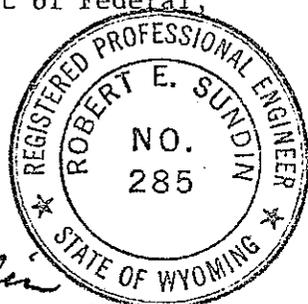
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AUTHORIZED BY:

  
  
 Administrator P.E. # 1479  
 Water Quality Division  
 June 9, 1981  
 Date of Issuance

  
  
 Director  
 Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

MRC:sj



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AUTHORIZED BY:

*William L. Garland*  
\_\_\_\_\_  
WILLIAM L. GARLAND  
P.E. #1479  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING

Administrator  
Water Quality Division

*Robert E. Sundin*  
\_\_\_\_\_  
REGISTERED PROFESSIONAL ENGINEER  
ROBERT E. SUNDIN  
NO. 285  
STATE OF WYOMING

Director  
Dept. of Environmental Quality

June 3, 1981  
Date of Issuance

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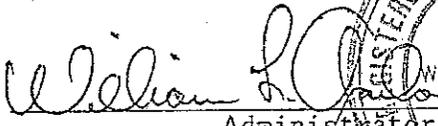
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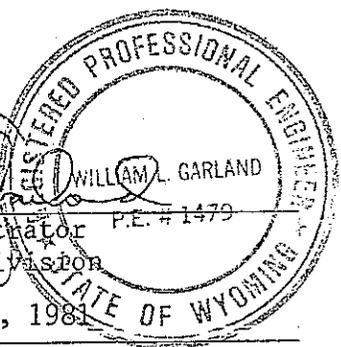
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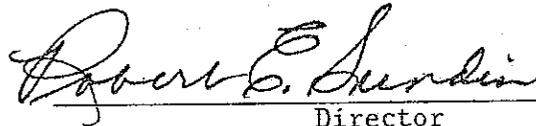
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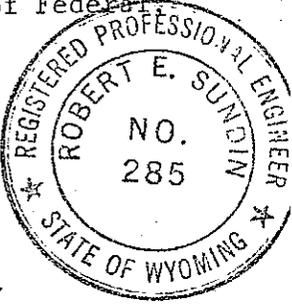
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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
P.E. # 1479  
Administrator  
Water Quality Division  
July 8, 1981  
Date of Issuance



  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Bradley E. Bauer



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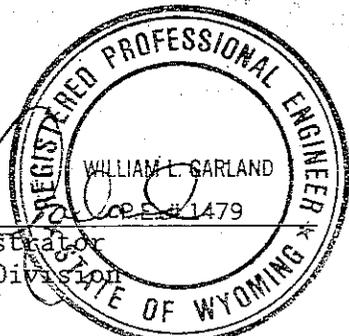
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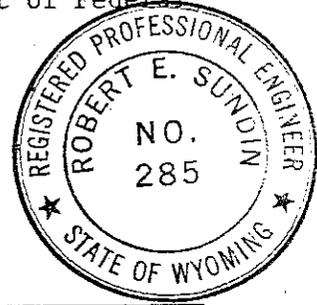
AUTHORIZED BY:

*William L. Garland*



Administrator  
Water Quality Division

*Robert E. Sundin*



Director  
Dept. of Environmental Quality

June 4, 1981

Date of Issuance

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FL:ch

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Larchick Trailer Park Sanitary Sewer and Water Systems

ENGINEER: Herbert J. Jennerich  
PO Box 701  
Worland, WY 82401

OWNER: Dave Larchick  
PO Box 489  
Greybul, WY 82426

WATER QUALITY DIVISION REFERENCE NUMBER: 81-310

REVIEWING ENGINEER: Jeff Hermansky

DATE OF REVIEW: June 9, 1981

ACTION: Not authorized.

COMMENTS:

Mr. Herbert Jennerich,

This review is intended to supplement and verify the items that we discussed on the phone June 8, 1981.

1. What is the project location - show a vicinity map of the area to be developed.
2. Show areas in which water and sewer tie to existing mains.
3. Justify that the water and sewer mains can handle the flows to be generated by this subdivision. It may be best to also include the demand that will be generated by additional lots to be developed in the future.
4. A letter of verification from the public utility system manager (Town of Basin), that the connection to the Town of the proposed facilities is permitted.
5. Consideration should be given to installing the sewer main at a greater depth than is shown on the plans. The 2.5 to 3 feet of cover shown for most of the line is very shallow for good protection from loads and frost. Furthermore,

*Jeff Hermansky*

A, B, C

the service lines, even if installed at the absolute minimum slope of 1/8"/ft., will terminate with as little as 1.5 foot of cover. Therefore, the service lines will be quite susceptible to damage.

6. If the sewer and water service connections are to be revised, please show this revision in a detailed sketch.
7. I would strongly recommend that the water service line from the curb stops to the water risers be constructed of type K copper or Polyethylene (PE) Pressure Pipe. These are the water service pipes listed in the Wyoming Public Works Standard Specifications. I have found PVC pipe, in the small diameters, can be very easily damaged during and after installation.
8. A block or brick should be installed under the curb stop and under the 90° ell for the water service riser.
9. The water line detail is vague at the blowoff location. Please verify.
10. Three copies of the plans and specifications are required. Please submit one more copy.

If you have any questions, please contact either Robin Collins or myself.

JH:sj



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.

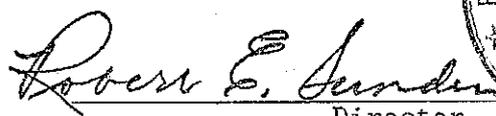
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

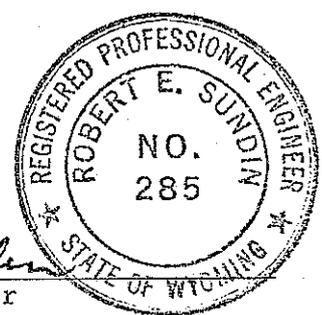
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator PE # 1475  
Water Quality Division  
STATE OF WYOMING  
June 22, 1980  
Date of Issuance

  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.

JCH:nb

M  
8-20-81

PERMIT TO CONSTRUCT

New

Permit No. 81-311RR

Renewal

Modified

Church of God  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Church of God

c/o Rev. Samuel W. Lewis

2252 22nd St.

Wheatland, WY 82201

to construct, install, or modify a commercial subsurface wastewater treatment facility according to the procedures and conditions of the application No. 81-311RR. The facility is located in NE 1/4 SE 1/4 Section 23, T24N, R68W in the County of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, 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 Department of Environmental Quality, 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: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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.

AUTHORIZED BY:

  
\_\_\_\_\_  
WILLIAM L. GARLAND  
P.E. #1479  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
ROBERT E. SUNDIN  
REGISTERED PROFESSIONAL ENGINEER  
NO. 285  
STATE OF WYOMING  
Director  
Dept. of Environmental Quality

\_\_\_\_\_  
August 5, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Kenneth Kennedy  
Kennedy Engineering  
P.O. Box 1089  
Wheatland, WY 82201

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: Church of God

ARCHITECT OR ENGINEER: J. Kenneth Kennedy, Kennedy Engineering  
P. O. Box 1089, Wheatland, WY 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 81-311

REVIEWING ENGINEER: Thomas S. Norman *Thomas S. Norman*

DATE OF REVIEW: June 5, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The application packet is incomplete. The following information is necessary:
  - a. Design criteria - number of occupants, sewage rates, method of sizing the septic tank and drainfield.
  - b. Ground slope.
  - c. Depth to groundwater and/or bedrock.
  - d. Septic tank information - access, materials, baffles, inlet/outlet material
  - d. Location of water wells and water pipes.
2. There are inconsistencies between the application and the plans.
  - a. Percolation rate
  - b. Depth of filler material under the drainpipe
3. Section A-A on the plans allows open joints in the drainfield. Past experience has shown that open joints are not as reliable as perforated because they allow soil particulate to infiltrate into the pipe and thus tend to plug the soil openings.
4. The 'typical section' of the drainfield on the plans shows a two foot trench with 18 inches minimum, which value was used for design purposes?

LSD 7-9-81

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: Church of God

ARCHITECT OR ENGINEER: J. Kenneth Kennedy, Kennedy Engineering  
P. O. Box 1089, Wheatland, WY 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 81-311 R

REVIEWING ENGINEER: Tom S. Norman *Thomas S. Norman*

DATE OF REVIEW: June 30, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Your reply of June 15, 1981 to my review failed to address the following comments:

- Item 1.d.
- Item 2.a.
- Item 2.b.
- Item 3
- Item 4

Please address these items.

- 2.a. Good design principles state that a drainfield for a church should be designed for the capacity of the church not only for future growth considerations but also for occasional weddings or funerals that will pack a church. Regardless if the facility seldom acquires such use, we have to be assured that the sewage has a place to be treated. What is the capacity of the church?
- 2.b. Current literature shows that a 5 gallon/church seat usage is a better design figure than 2.5 gallons/current user.

Although it appears that you may have more than adequate area for the church, these design criteria should be evaluated.

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: Whispering Pines Campground

ARCHITECT OR ENGINEER: Lawrence T. Price  
239 South Spokane, Newcastle, WY 82701

WATER QUALITY DIVISION REFERENCE NUMBER: 81-312

REVIEWING ENGINEER: *L. C. Feusner*  
LeRoy C. Feusner, P.E.

DATE OF REVIEW: June 5, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plans and specifications must carry the signature or seal of the design engineer who is a registered Professional Engineer licensed in Wyoming.
2. Provide the material/construction specifications. If you desire, you may use the 1979 Wyoming Public Works Standards published by the Wyoming Associated General Contractors, 1700 West Lincolnway, Cheyenne, WY 82001, for the sewer/water systems. A note to that effect must be placed on the plans. If these standards will not be used, provide two copies of your specifications for our review.
3. From the design drawing, there appears to be only two service connections (dormitory and kitchen/dining room) for the water supply system. Since there are less than ten service connections for the water supply system, a Permit to Construct from DEQ is not required. Therefore, we will not review the public water supply system unless there are ten or more service connections.
4. Although a Permit to Construct may not be required from DEQ, the applicant may fall within the jurisdiction of the EPA Safe Drinking Water Act for surveillance and drinking water quality. Suggest you contact EPA/Denver (303-837-2731) to discuss this situation.
5. The proposed discharge from your water transmission line to the creek would be classified as a point discharge and may require a NPDES Discharge Permit from this Division. Recommend you contact John Wagner of this Division to discuss this aspect.

6. For an average percolation rate of seven minutes/inch, use a wastewater application rate of 1.0 gallons per square foot per day. A maximum trench width of 36 inches may be used for the field.
7. The recommended length of the leach field perforated pipe is 60 feet, and each line shall not exceed 100 feet.
8. Where the design flow exceeds 2,000 gallons per day, a dosing tank shall be installed ahead of a soil absorption system. The liquid capacity of the dosing tank must be sufficient to dose the soil absorption system no more than four times daily at the design flow. For systems larger than 2,000 gallons per day, it is recommended that the field be split and the separate positions dosed with alternating pumps or siphons. Where head conditions and topography permit, automatic siphons are the preferred method of dosing. The siphon shall be sized to empty the dosing tank in less than 20 minutes. If pumps will be installed, at least two pumps shall be installed. The pumping system shall be sized to pump the required flow with the largest unit out of service and to empty the tank in 20 minutes or less.
9. Sloping areas can be graded and reshaped to provide suitable absorption sites. Absorption fields must be installed in cut areas and not in fills. The fill can be used as part of the 20 foot minimum from the absorption field to the top of the break in slope. There must be at least six feet of natural soil between the edge of the absorption system and the beginning of the fill area. See attached diagram. Otherwise, a sidehill leach field design will be required for the facility due to excessive slope (15-25%). See attached design.
10. A grease trap shall be installed between the kitchen and the septic tank if significant quantities of grease, oils, fats, or the like will be present in the wastewater. Minimum size grease trap is 750 gallons.
11. More precise information on the depth to groundwater is required. Applicant should be aware that groundwater protection may be required if a shallow groundwater table exists. Rock formations or other impervious strata shall be at a depth greater than four feet below the bottom of the waste disposal system. Underlying impervious strata may be removed for better percolation providing that trench is backfilled with gravel to the proper height.
12. What slope will the six inch sewer line be laid? Minimum slope for a six inch line is 0.6 ft. per 100 ft.
13. Indicate depth of sewer line bury.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-312R  
SEE CONDITION ON BACK

Whispering Pines Campground  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Reorganized Church of Jesus Christ of Latter Day Saints

713 9th Street

Wheatland, WY 82201

to construct, install, or modify a campground wastewater collection and subsurface disposal facility according to the procedures and conditions of the application No. 81-312R. The facility is located in Section 1, T22N, R61W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

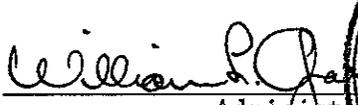
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, 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: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

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.

AUTHORIZED BY:

  
\_\_\_\_\_  
WILLIAM L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
July 16, 1985  
Date of Issuance



  
\_\_\_\_\_  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality



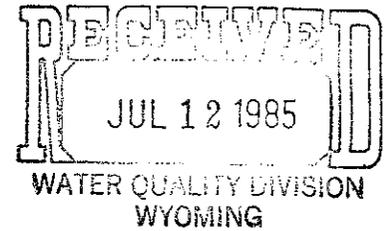
This permit does not supercede the requirements for obtaining any permit from local agencies.

Condition to Permit to Construct #81-312R

The permittee shall notify the Albany County Planning Director, 405 Grand Ave., Laramie, WY 82070, phone 721-5288, of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.

cc: Lawrence T. Price, 239 South Spokane, Newcastle, WY 82701  
Tom Curren, Albany Co. Planning Office, 405 Grand Ave., Laramie, WY 82070

81-312R  
Albany Co.



July 11, 1985

Tom Norman  
Wyoming Department of Environmental Quality  
Water Quality Division  
Hershler Building  
Cheyenne, Wyoming 82002

Dear Tom:

I am requesting a renewal and extension for the Permit to Construct of the sewerage system at Camp Paradise (formerly called Whispering Pines Campground) Permit #81-312R. The total facility is still under construction and will not be completed for several more years.

The septic tank was built last summer and the drain field is under construction now. The facilities are being built with volunteer labor, so it is going slower than expected. The camp is being used on a limited basis now, with the septic tank being used as a holding tank, and when needed, being pumped and hauled to Wheatland.

As soon as the drain field is installed and inspected by the Albany County Sanitarian, the septic system will be put in service.

Sincerely,

A handwritten signature in cursive script that reads "Lawrence T. Price".

Lawrence T. Price, PE #3145  
239 South Spokane  
Newcastle, Wyoming 82701

LTP/clu  
CC: Betty Dower  
713 9th Street  
Wheatland, Wyoming 82201

L&S 7-16-81

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 81-312R

Whispering Pines Campground  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Reorganized Church of Jesus Christ of Latter Day Saints

713 9th Street

Wheatland, WY 82201

to construct, install, or modify a campground wastewater collection and subsurface disposal facility according to the procedures and conditions of the application No. 81-312R. The facility is located in Section 1, T26N, R71W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

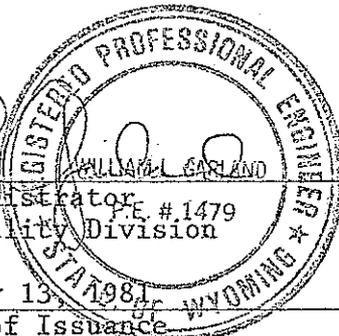
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

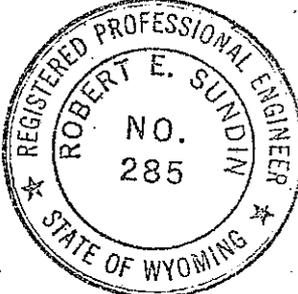
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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.

AUTHORIZED BY:

  
*William L. Garland*  
Administrator  
Water Quality Division  
July 13, 1981  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Lawrence T. Price  
239 South Spokane  
Newcastle, WY 82701

PERMITS TO CONSTRUCT

608 7

New

Permit No. 81-313

Renewal

See Special Condition

Modified

Roberts Rathole Drilling  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Gary Johnston

P. O. Box 1048

Mills, WY 82544

to construct, install, or modify a commercial subsurface wastewater disposal system facility according to the procedures and conditions of the application No. 81-313. The facility is located in Lots 12, 13, 14, & 15, Kay Hoffman Subdivision, Section 29, T34N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, 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 Department of Environmental Quality, 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: Water Quality Construction Projects Control Office, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2181 Collins Avenue, Suite 30, Sheridan, Wyoming, 82801; telephone, 672-6457.

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.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division



  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality



June 3, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Gray C. Wangelin  
E.I.T.S.  
Box 4075  
Casper, WY 82604

Chuck Davis

#### Conditions to Permit to Construct

The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Casper Urban Water Quality Management Plan requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be abandoned or integrated into the regional system in accordance with the requirements of the Casper Urban Water Quality Management Plan and the Final 201 Facility Plan.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-314R

Bridger Valley Estates  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Bridger Valley Estates  
c/o Vern Hawkins  
1535 Mildreek Drive  
Ogden, UT 84404

to construct, install, or modify a water distribution system, and a sewage collection and treatment facility for Phase I (128 units)

facility according to the procedures and conditions of the

application No. 81-314R. The facility is located in

Sec. 24, T16, R115

in the County of Uinta,

in the State of Wyoming. This permit shall be effective for a period of Two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and

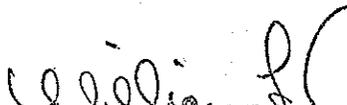
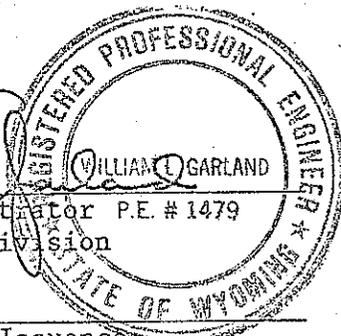
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

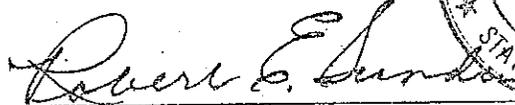
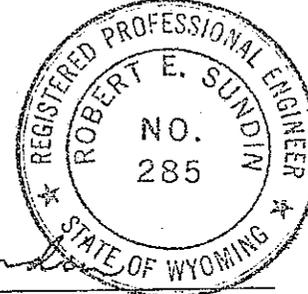
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone 332-3144.

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.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
  
April 21, 1982  
Date of Issuance

  
Director  
Dept. of Environmental Quality  


This permit does not supercede the requirements for obtaining any permit from local agencies.

FL:ch

Water Quality Division  
Groundwater Section  
Permit Application Review

Application Number 81-317

Date submitted for review 1-13-82

Name and location of facility Bridge Valley Estates  
Urgy Wyoming

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

No comment. The submittal is consistent with current groundwater protection procedures and requirements.

Comments attached.

Signed Richard Lennor  
Title Eng Eval  
Date 1-15-82

agm  
1/26/82

A review of the Bridger Valley Estates design aspects submitted, dated December 29, 1981, for groundwater protection criteria indicates the following:

1. Soil borings were conducted to shallow depths only (6.5', 9', and 11'); therefore, no indication of where water table lies. However, soils report indicates that footings placed at these depths could come in contact with rising water table. Soils report recommended under drain for this reason (Page 8).
2. Hydrology report concerns only surface runoff with various numbers presented and plugged into implied formulae. No indication where data extracted from nor actual formulae were presented, even though formulae may be common knowledge they should be in report. Specific groundwater data should be presented concerning location and quality as well as information on existing wells within area of interest ( $\frac{1}{4}$  mile).
3. WRRI Report "Occurrence and Characteristics of Groundwater in the Green River Basin and Overthrust Belt, Wyoming Volume(s) V-A and VB" indicates numerous shallow groundwater aquifers in the Green River Basin, therefore, the potential for groundwater pollution does exist and the groundwater data becomes more significant.
4. Sheets 27 and 29 indicate a 12" effluent discharge line, a 12" overflow and drain combination line; as well as, the emergency spillway discharging to the Blacks Fork River. A review of the NPDES permit file indicates that a letter (attached) was mailed December 4, 1981 concerning this proposed discharge; to date no reply has been received. Because of the ammonia limitations noted a discharge to the Blacks Fork River through the above mentioned discharge points, the potential exists for an NPDES violation. It is recommended that a construction permit be denied until this matter can be resolved and discharge parameters established, and other required information is provided.

*Ching*

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 Lincoln

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: BRIDGER VALLEY ESTATES

ENGINEER: R. W. Cummock & Associates  
3090 East 3300 South #4B  
Salt Lake City, UT 84109

OWNER: Bridger Valley Estates  
c/o Vern Hawkins  
1535 Mildreek Drive  
Ogden, UT 84404

WATER QUALITY DIVISION REFERENCE NUMBER: 81-314

REVIEWING ~~ENGINEER~~ EVALUATOR: Frank LaBarge *FL*

DATE OF REVIEW: January 29, 1982

ACTION: Not authorized.

COMMENTS: A review of your application has been made. The following points need to be resolved before a permit can be approved:

General Comments

- 1. The application should address only the facilities for which a permit is being applied for. All other phases should be deleted from this application at this time.
- 2. Is any part of the proposed facility in a floodplain?

Sewage Collection System

- 3. Manhole rim elevations should be shown on the plans.
- 4. The plans state ASTM D3034 PVC sewer pipe is to be used. What will the SDR number be?
- 5. How are lots #53 and #54 on Acron Drive to receive sewer service?
- 6. How is lot #74 on Rocky Road to receive sewer service?
- 7. Calculations verifying the proposed sewer lines will be adequate to handle the anticipated sewage flows are needed.
- 8. A detail is needed of how the sewer line stubs will be plugged.

*ABC*

Force Main

9. Calculations are needed verifying that the proposed force main is adequate to handle the flows to be imposed upon it.
10. Verification is needed the force main will have a design average velocity of at least 2 fps.
11. What is the force main design pressure?
12. The plans should indicate that there will be at least a 10 foot horizontal separation between the force main and water main.
13. A specification is needed for water main and force main crossings.
14. The force main should be appropriately identified so it won't be confused with the water main.
15. What is the SDR number and pipe class for the force main pipe?

Emergency Storage Pond

16. The proposed emergency pond does not appear to be a satisfactory method of emergency operation for the lift station for the following reasons:
  - a. The storage pond is in a designated common or park area;
  - b. The storage pond is adjacent to several lots;
  - c. The problems associated with the detention of raw sewage such as odors, aesthetics, etc., should be avoided;
  - d. Pond shows overflow which will not be approved.
17. You show a standby emergency generator; therefore, why the need for the overflow pond?

Lift Station

18. A cross-section is needed showing the elevation and details of the force main inlet.
19. A complete material specifications are needed for all components of the lift station
20. Lift station pump curves are needed. They should include the system curve and calculations.

21. How will the pumps be removed if the need arises. Details are needed of pull chains, quick release connections, etc.
22. Access details are needed.
23. The electrical equipment must meet Ten State Standards. Please provide the specs.
24. What is the pump cycle time (i.e. well volume and level settings)?
25. Lift station ventilation needs to be addressed.
26. An alarm system is needed.
27. Emergency generator specifications are needed as well as sizing calculations.

Splitter Box

28. What is the velocity into the box?
29. Please provide a brief narrative on how the box works.
30. The wood in the box needs to be speced.
31. A line profile is needed from the box to the manhole.

Lagoon Overflow Manhole

32. Why is there an overflow line on the overflow manhole? There does not appear to be any need for one.
33. Channel guides should be non-corrosive.
34. The shear gates need to be speced.
35. The detail does not show the 6-inch emergency drain entering into the manhole as shown on the plans.

Lagoon Transfer Manhole

36. How come the inlet and outlet pipes are so far above the floor bottom? It appears this arrangement will cause solids to settle out resulting in odors, etc.
37. Profiles are needed of the alternate piping scheme.

Lagoon Emergency Drain

38. Details are needed of the drainlines and their inlets and outlets.
39. How is pond A-3 isolated?

Lagoons

40. Liner installation specifications and details are needed.
41. A detail is needed of the discharge points at the river.
42. Verification, in the form of engineering calculations, is needed which confirms the proposed lagoons can meet the ammonia limits established in the NPDES discharge permit.
43. All pond inlet and outlet piping should terminate at least ten feet from the toe of the dike.
44. Concrete riser pipe needs to be specified.
45. The following comments were received from our groundwater section:
  - a. Soils borings were conducted to shallow depths only (6.5', 9' and 11'); therefore, no indication of where water table lies. However, soils report indicates that footings placed at these depths could come in contact with rising water table. Soils report recommended under drain for this reason (Page 8).
  - b. Hydrology report concerns only surface runoff with various numbers presented and plugged into implied formulae. No indication where data extracted from nor actual formulae were presented, even though formulae may be common knowledge they should be in report. Specific groundwater data should be presented concerning location and quality as well as information on existing wells within area of interest ( $\frac{1}{4}$  mile).
  - c. WRRI Report "Occurrence and Characteristics of Groundwater in the Green River Basin and Overthrust Belt, Wyoming Volume(s) V-A and VB" indicates numerous shallow groundwater aquifers in the Green River Basin, therefore, the potential for groundwater pollution does exist and the groundwater data becomes more significant.

Chlorination System

46. Complete details are needed of the system and the structure it is housed in.

47. What are the chlorinators maximum and minimum feed rates?
48. Chlorinator specs are needed.
49. Is adequate mixing and detention time provided for?

Effluent Measuring Station

50. Why have two measuring stations? Why not install a single flume at some point between the overflow manholes and the river?
51. Complete details and specifications of the flow measuring device is needed. What ranges can it effectively operate in?

Aerators

52. Aerator specs are needed.
53. Blower specs are needed.
54. Diffusser specs are needed.
55. Calculations are needed verifying the blower horsepower sizing is sufficient.

Storm Drain System

56. Will there be any detention ponds in the system? If so, complete details are needed.

Water System

57. What is the source of water? A letter is needed from whoever is supplying the water verifying they can supply the required volumes of water at the required pressures. I believe the water ultimately comes from the Joint Powers Board to the Water and Sewer District. In this case, we need letters from both agencies.
58. What is the pressure in the main where the tie-in will be made? Calculations should be made from this point.
59. The water system should make a loop.
60. Have air relief valves been provided for where needed?

Please submit the required information and revised drawings, in triplicate, to this office. A review of your response will be made and you will be informed of the results.



*Department of Environmental Quality*  
*Water Quality Division*

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

August 14, 1981

R. W. Cummock & Associates  
3090 East 3300 South  
Pioneer Plaza 4-B  
Salt Lake City, UT 84109  
ATT: R. W. Cummock

RE: Bridger Valley Estates, DEQ #81-314

Dear Mr. Cummock:

As of this date I have not received any plans, specifications or engineering reports for the above referenced project. So far all I have received is an "Application for Permit to Construct" and a cover letter, dated May 27, 1981, requesting the application be expedited.

Please inform this office, in writing as soon as possible, when the necessary information will be submitted. If the project has been abandoned a letter is needed withdrawing your application.

Yours truly,

A handwritten signature in cursive script that reads "Francis LaBarge".

Francis LaBarge  
Water Quality Evaluator  
Southwest District

FL/ch

xc: ✓ Cheyenne, DEQ/WQD  
Dennis Farley - Uinta County Planner  
File (2)



*Department of Environmental Quality*  
*Water Quality Division*

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 3, 1981

R. W. Cummock & Associates  
3090 East 3300 South  
Pioneer Plaza 4-B  
Salt Lake City, UT 84109  
ATTN: R.W. Cummock

Re: Bridger Valley Estates,  
DEQ #81-314

Dear Mr. Cummock:

I am in receipt of your May 27, 1981 letter and "Application for Permit to Construct" sent to Mr. Berreth. You requested that the application be expedited, however there weren't any plans enclosed.

A review will be conducted when the necessary plans, specifications and engineering reports are received, in triplicate. The points we discussed during our May 20, 1981 meeting should be addressed in your submittal.

If you have any questions, please call me.

Yours truly,

A handwritten signature in cursive script that reads "Francis LaBarge".

Francis LaBarge  
Water Quality Evaluator  
Southwest District

FL/dl

cc: Cheyenne DEQ/WQD  
File



Department of Environmental Quality  
Water Quality Division

RECEIVED  
JUN 09 1986  
WATER QUALITY DIVISION  
WYOMING

81-315

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 5, 1986

Blacksfork Corporation  
ATTN: Mr. Kent Palmer  
2340 South 2700 West  
Salt Lake City, UT 84119

RE: Granger Park Resubdivision, WQD Reference No. 81-315, 81-403, 81-404,  
81-718, 81-719

Dear Mr. Palmer:

After our phone conversation on Thursday, May 29, 1986 concerning the referenced subject, I conducted a thorough search of our files. I discovered that five (5) applications for permit to construct were made to this office for the Granger Park Subdivision Improvements. Only one permit was actually issued. That was WQD Permit No. 81-403 for water and sewer improvements to Phase I of that subdivision only.

I am returning the attached plans and specifications to you and will cancel WQD Permit Application Nos. 81-315, 81-404, 81-718 and 81-719. I apologize for any inconvenience I may have caused you in clearing this matter up.

Should you have any questions or comments, please contact Jack Bedessem or myself.

Sincerely,

Bill Locke, P.E.  
Water Quality Engineer

BL/jw

cc: Town of Granger  
DEQ/WQD, Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Granger Park Subdivision

ENGINEER: Bush & Gudgell  
555 S. 3000 East  
Salt Lake City, Utah 84106  
ATTN: John Probasco

OWNER: Delwin T. Pond  
1174 E. 2700 South  
Salt Lake City, Utah 84106

WATER QUALITY DIVISION REFERENCE NUMBER: 81-315

REVIEWING ENGINEER: Albert J. Berreth *ajb*

DATE OF REVIEW: June 3, 1981

ACTION: Not authorized.

COMMENTS:

Before a permit can be issued, the following items must be addressed.

1. A letter is needed from the City of Granger stating that they have the capacity to serve this development with water and sewer. It also, of course, must say they will allow connection.
2. Six feet of cover is needed over the top of watermains. The detail on Sheet 3 of 23 does not show this.
3. Please show thrust block locations. Symbolizing the location and referencing the Wyoming Public Works Standard Specifications (WPWSS) is acceptable.
4. It appears that additional valves will need to be added or that valve locations will need to be changed. Any line breakage cannot result in the loss of more than 20 service connections.
5. Service line details need to be shown. A typical lot connection detail is acceptable. A copy of Chapter III is enclosed for your information.
6. Is this permit to be for all lines shown?
7. Please show gate valves in conjunction with the fire hydrants.

8. Please check with the local fire marshall on the location of fire hydrants.
9. Analysis of the water system is needed which demonstrates the ability of the system to supply fire demand plus peak day and at a minimum residual pressure of 20 psi. Fire flow should be equal to 1020 times the square root of the population in thousands times the quantity one minus 0.01 times the square root of the population in thousands. Storage needs to be addressed.
10. Please explain operation of water system.
11. In the typical vault detail, what type of support will be provided for the valve? Is a drain to be installed? What about the pipe material? Is PVC acceptable? What about the pipe manhole joint?
12. Blow offs are required on all deadend lines.
13. If one pressure reducing valve is to be used, a justification is needed to show that two are not needed to cover a range of flows.
14. Pump curves and specifications for the pumphouse are needed.
15. Please explain pump safeguards and planned mode of operation.
16. With any one pump out of service, the others must be capable of supplying demand. This needs to be shown.
17. Is the pump house located so as to be prone to flooding? Is it out of the 100 year flood plain?
18. Is chlorination to be provided? If not, why?
19. Please show thrust blocking on underground piping at pumphouse.
20. Please show floor drain in pumphouse.
21. Is a water meter to be provided? If not, one should be incorporated.
22. A minimum of a cleanout is needed on all deadend sewer mains not longer than 150 feet.
23. What amount of wastewater is expected to be generated? Please analyze the worst case sewer line.
24. Sewer service lines must be shown. A typical detail is acceptable.
25. Water/sewer line separation details need to be shown on the drawings. Several of the crossings, as shown, appear to have minimal separation.

26. Please note manhole rim elevations.
27. How about sewer service to lot 125? Can this lot be served by a line at 2% grade?
28. Profiles were not included for the section marked "Future Construction."
29. A third copy of the specifications are needed.

In addition to these comments, the City of Granger may have comments on which they will need resolution.

AJB/dl  
Enclosure



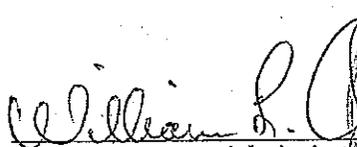
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

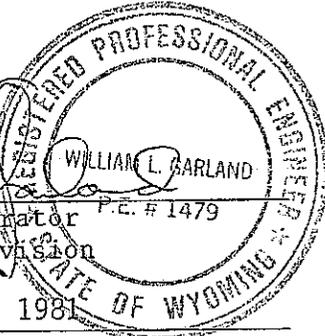
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming, 82801; telephone 672-6457.

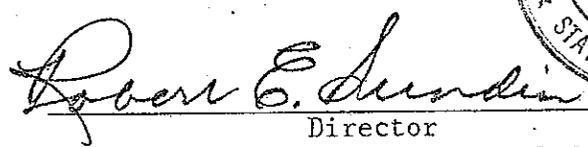
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

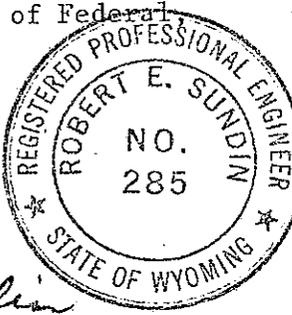
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
P.E. # 1479  
Administrator  
Water Quality Division  
July 8, 1981  
Date of Issuance



  
Robert E. Sundin  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Bradley E. Bauer  
P.O. Box 532  
Casper, WY 82602



M  
6-10-81

*Department of Environmental Quality*

81-317

*Water Quality Division*

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING  
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

June 10, 1981

James C. Gores, P.E.  
Wind River Engineers  
2333 Rose Lane  
Riverton, Wyoming 82501

RE: Town of Encampment, Raw Water Storage Pond

Dear Mr. Gores:

This is to advise you that the Department of Environmental Quality, Waters Quality Division does not require construction permits be issued for raw water storage ponds for drinking water supplies. Therefore the plans for the project are being returned to you herewith.

If you have any questions about this, feel free to contact us about them.

Very truly yours,

Theodore D. Coyer  
Water Quality Engineer

TDC/ad  
Enclosures

6-10-81

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: Lingle Water System  
Phase I - Transmission Line

ARCHITECT OR ENGINEER: Charles A. Haas, Wells Engineers, Inc.  
1225 Sage St., Gering, NE 69341

WATER QUALITY DIVISION REFERENCE NUMBER: 81-318

REVIEWING ENGINEER: Thomas S. Norman *Thomas S. Norman*

DATE OF REVIEW: June 5, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Are there any underground utilities (especially sanitary or storm sewers) near the proposed construction? They must be shown on the plans.
2. Isolation valves are recommended along the water main for repair purposes. This is especially recommended near underwater crossings in case of wash-out.
3. Is fire protection provided in this area? Should fire hydrants be installed?
4. Where will the highly chlorinated water (used to disinfect the mains) be discharged so as not to create a problem?
5. What was the basis of design for sizing the system?

PERMIT TO CONSTRUCT

New

Permit No. 81-318R

Renewal

Modified

Lingle Water Transmission Line Phase I  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Lingle

Town Hall

Lingle, WY 82223

to construct, install, or modify a 6" and 12" water transmission line facility according to the procedures and conditions of the application No. 81-318R. The facility is located in Section 18, T25N, R62W in the County of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

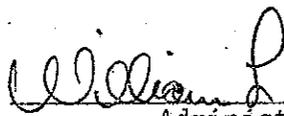
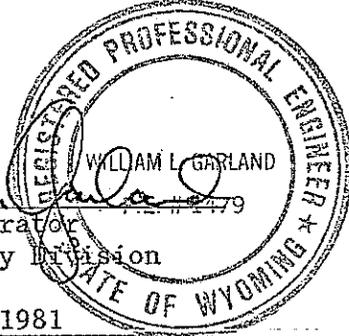
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

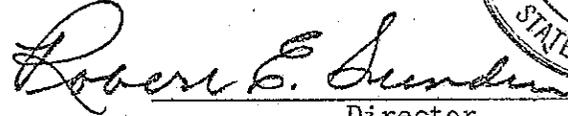
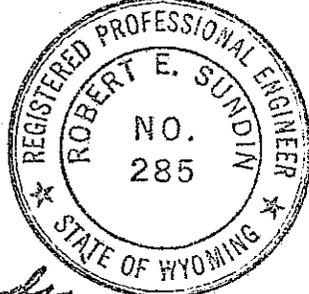
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming, 82801; telephone, 672-6457.

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.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator  
Water Quality Division  


  
ROBERT E. SUNDUM  
Director  
Dept. of Environmental Quality  


June 25, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Wells Engineers, Inc.  
1225 Sage Street  
Gering, NE 69341

Norma  
10-29-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-319RR  
 C560113-03  
 SEE SPECIAL CONDITIONS

City of Buffalo - Wastewater Treatment Plant  
 (Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Buffalo  
46 North Main St.  
Buffalo, WY 82834

to construct, install, or modify a wastewater treatment lagoon system, lift station and force main, interceptor sewers and outfall sewer line facility according to the procedures and conditions of the application No. 81-319RR. The facility is located in Sec. 36, T51N, R82W; Sec. 25, 33, 34, 35 & 36, T51N, R82W; Sec. 30, T51N, R81W; Sec. 4 & 5, T50N, R82W in the County of Johnson, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

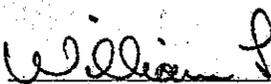
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

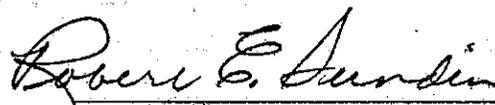
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
#1450  
Administrator  
Water Quality Division  
STATE OF WYOMING

  
ROBERT E. SUNDIN  
NO. 285  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
Director  
Dept. of Environmental Quality

October 13, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Culp/Wesner/Culp Consulting Eng.  
P.O. Box 518  
Cameron Park, CA 95682

SPECIAL CONDITIONS

1. This permit is issued with the understanding that the interests of inhabitants now residing within a 1/4 mile radius of the proposed wastewater lagoon system's property lines, have been or will be "satisfied" by the City prior to completion of the facility's construction. Such satisfaction may consist of condemnation, purchase of property, and/or purchase of odor easements or covenants to run with the land effected, or other agreement reached between the effected party and City of Buffalo.
2. The Water Quality Division District Supervisor in Sheridan, Wyoming shall be contacted and informed of the date that initiation of lagoon lining (either bentonite or on-site soils) installation begins for each cell. Similarly, the District Supervisor shall also be advised prior to each test that is made to determine the water-tightness of the lagoon liners. Notification of these tests should be given at least 48 hours in advance.
3. Installation and operation of a groundwater monitoring network for the purpose of identifying the impact of the WWTP on groundwater and Clear Creek. The monitoring network and operating procedures should meet best practicable technology and the approval of DEQ/WQD.

NORMA



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

81-319 RR

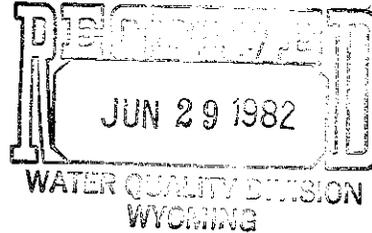
2161 COFFEEN AVENUE,  
SUITE 301

SHERIDAN, WYOMING, 82801

TELEPHONE 307-672-6457

June 28, 1982

Mr. Lee Keith  
R.R. 1, CPR 27  
Buffalo, Wyoming 82834



Dear Sir:

In response to your phone conversation with Tom Mueller about the Buffalo, Wyoming C560113-03 project, a short summary of events are as follows:

A pipe dealer called the Department about pipe at the construction site not meeting specification.

Visited construction site to get information on pipe. Contact was made at City Hall with Ken Gross.

Conversation with DEQ, Cheyenne office, about pipe's standards.

Conversation with Bruce R. Willey, Culp/Wesner/Culp, about pipe specs.

Reinspected pipe and pipe thickness and contact with Bruce Willey, Culp/Wesner/Culp.

Conversation with Tom Mueller and DEQ Cheyenne.

It was after my last visit when enough information was gathered that this Department felt that this pipe did meet specs. for the Buffalo project.

If I can be of any further assistance on this matter, please feel free to contact me.

Sincerely,

Loren Leichtnam  
Construction Inspector

LL:ls

Went Certified Mail

Norma

THE STATE OF WYOMING



ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*

*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 15, 1981

Honorable Emil O. Hecht  
Mayor, City of Buffalo  
46 North Main Street  
Buffalo, WY 82834

Re: City of Buffalo Wastewater Treatment  
Plant Permit Application No. 81-319R

Dear Mayor Hecht:

The proposed wastewater treatment lagoon system is not located outside of the minimum  $\frac{1}{4}$  mile buffer zone that is necessary to be provided from wastewater treatment lagoons to habitation and residences. In order that a permit to construct be issued, this Department will require the City of Buffalo to provide assurances that residents within the  $\frac{1}{4}$  mile radius are satisfied that reasonable measures have been taken to mitigate any potential odor or groundwater contamination problems and that those residents do not object to the proposed siting of the wastewater treatment facilities.

Therefore, your application for a permit to construct is hereby denied in accordance with Section 10, Chapter III, Wyoming Water Quality Rules and Regulations.

Attached are additional review comments which refer to the recent plans and specifications submittal received by this office on September 4, 1981. Those comments should be addressed on any further plan and specification submittals but are not reasons for denial of the permit at this time.

It should also be noted that water well, hydrologic and geologic information has been requested in order to fully assess the potential impact on local water supplies and measures that might need to be taken to mitigate groundwater contamination.

Sincerely,

A handwritten signature in cursive script, appearing to read "William L. Garland".

William L. Garland, P.E.  
Administrator  
Water Quality Division

WLG:MH:jn

cc: Lee Keith  
Culp/Wesner/Culp, Bruce Willey  
Marion Yoder, Attorney General's Office  
Grant File

REVIEW COMMENTS BUFFALO WASTEWATER

TREATMENT FACILITY

REVISED PLAN AND SPECIFICATION SUBMITTAL 9/4/81

1. Corps of Engineers Comment No. 7 - Section 00100-5, paragraph 12.02 uses language requiring both words and numbers on the bid form.
2. Please note that following the drying of sludge in the existing lagoon, the City of Buffalo would be required to submit an ultimate sludge disposal plan prior to demolition of the lagoon system.
3. Elevations shown in the plans for the pump float switches at the inter-stage pump house would allow for a continuous bypass discharge via the 16" overflow sewer line.
4. The NPDES permit requires continuous flow monitoring therefore the effluent discharge staff gauge will not be a sufficient method of flow monitoring in order to comply with permit monitoring requirements.

81-319



ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

2161 COFFEEN AVENUE,  
SUITE 301

SHERIDAN, WYOMING 82801

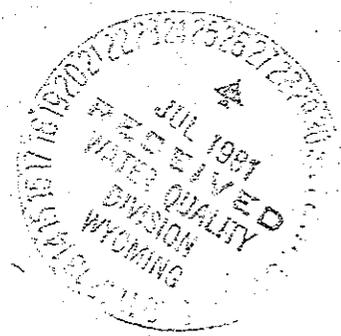
TELEPHONE 307-672-6457

BUFFALO, WYOMING TRUNK SEWER IV  
CONTRACT #

Comments

1. 314.93 L. F. of 6" PVC sewer should be replaced with 8" pipe.
2. Several manholes are drop type but not labeled as so and the plans should show a detailed drawing.
3. Several times distance between manholes exceeds recommended lengths for 8" pipe.
4. Plans are lacking details where creek and irrigation ditches are crossed.
5. Several times the sewer line crosses water lines with the plans lacking elevations of water lines.
6. Details of road crossing should also be included.
7. This office has not received the design calculations for this project.

Loren Leightnam  
Construction Inspector  
July 23, 1981



MEMORANDUM

TO: Carolyn Thomas-Lewis

FROM: Tom Mueller *TJM*

DATE: August 10, 1981

SUBJECT: Buffalo Plans and Specifications (EPA C5601193-03)

My comments and Loren's are attached. I would add, with respect to Loren's comment 7, I did review the preliminary design study by Dr. Joe Middlebrooks, and Mike Hackett should have my comments on that. Sorry to be so late on this.

## BUFFALO SEWAGE TREATMENT COMMENTS

1. No air release valve specs.
2. Figure 02200-1 as called for in the specifications is not provided.
3. Sheet 15, detail 7 has the dimensions reversed for inlet and outlet concrete pads.
4. Section 02598.2 "On-Site Soil: Lagoon Lining" of the specifications should have an in-place liner testing requirement, similar to that in Section 02598.1, to assure that seepage will be no greater than what would be achieved with a bentonite lining.
5. Sheet 26 - No elevations on float switches.
6. Sheet 24 - Some corrections are needed on the schematic for Exhaust Fan AF-1.
7. Sheet 27 - Homeruns on the Main Level Lighting Plan need to be corrected.
8. Backflow preventer or equivalent protection required for chlorinator water supply line.
9. Package lift station sump pump capacity should not be 1,000 gallons per minute (Section 11303.2, page 8).
10. The package lift station alarm circuit is not shown on the drawings.
11. Elevations for package lift station pump control are incorrect.
12. How many automatic samplers are to be supplied? Where will they be located?
13. How is effluent flow to be measured?
14. Section 11354.1 - It is recommended that check valves be located at the connections of chlorine cylinders with wall manifolds to prevent accidental transfer of chlorine into a cylinder.

### Sewer Contract No. 3

1. Construction Standard 29 for air vents on the effluent sewer should be provided.

Tom Mueller  
8/7/81

81-319  
CITY OF BUFFALO  
WASTEWATER TREATMENT PLANT

Review Comments

1. A schematic for piping would have been helpful for the reviews, also for bidding this project.
2. Is it possible to have short-circuiting in primary pond #1 with inlet and outlet place as shown on sheet #4?
3. I could not find where in the specifications that the door to the chlorinator room was equipped with panic hardware.
4. It is not a good practice to store extra chlorine cylinders in the same room as the feeding room.
5. I would like to see the sludge balance for each step of treatment, especially polishing pond #1.
6. What cities in our area, that CWC might know of, have this type of system?
7. This office has not received the design calculations for this project.

Loren Leichtnam  
July 27, 1981

## BUFFALO TREATMENT PLANT

### Department of Environmental Quality Grants Section Review Comments

1. Sheet #3 - Minimum freeboard is three feet according to Ten State Standards, not 2.5 feet as shown for cells on plans.
2. Sheet #3 - Should have by-pass around polishing ponds numbers 1, 2, 3, and chlorine contact basin.
3. General Comment: Need to label direction of flow on plant piping.
4. Sheet #5 - Has the bottom of the existing lagoon been probed for sludge?
5. Sheet #7 - The maximum withdrawal for 150 pound chlorine cylinder is forty pounds per day. At a flow rate of 3.0 MGD and a dosage rate of eight mg/l, 200 pounds per day of chlorine would be required. Four cylinder at forty pounds per day per cylinder withdraws 160 pounds of chlorine per day. Will the providing of four 150 pound cylinders be adequate?
6. Sheet #7 - Will the wall between chlorine room and blower room be sealed?
7. Sheet #6 - Will chlorine from the chlorine exhaust fan enter the intake to the blowers?
8. Sheet #3/28 - What is the flow through the raw sewage lift station?
9. General Comment: Need to request waiver for 85% on BOD<sub>5</sub>. Influent BOD<sub>5</sub> (mg/l) = 122 mg/l.
10. Sheet #4/28 - Label all sheet numbers in "see sheet \_\_\_\_\_".
11. Sheet #15/28 - Dimensions of wire fabric in Detail 7/15/15 is confusing.
12. Please note that the demolition of the existing lagoon system will not be eligible for EPA grant participation. Similarly, the EPA participation in costs to install an eight inch water line to the treatment site will be limited to grant funding for a smaller sized water line to serve the needs of the treatment plant only.

### Comments on EPA Specification Requirements

1. The number of days for project completion should probably be specified rather than a specific date construction is to be complete.
2. The most current Department of Labor wage determination rates should be included in the specifications to be distributed for formal bidding purposes. This would include, when appropriate, the schedule for wage rates for building construction.

3. The female goal of 6.9% should be included where provided for on page 2 of the "Invitation to Bid".
4. The minority and female utilization goals should be inserted on page 1 and page 10 of insert (A) "Nondiscrimination in Employment" - Contract Requirements.
5. The following paragraph should be inserted above place for the bidder's signature on the bid form:

THE UNDERSIGNED BIDDER HEREBY EXPRESSLY ACKNOWLEDGES HIS UNDERSTANDING OF AND HIS AGREEMENT TO COMPLY DURING THE PERFORMANCE OF ANY WORK UNDER ANY CONTRACT RESULTING FROM THIS BID WITH ALL EQUAL OPORTUNITY OBLIGATIONS AS SET FORTH IN 40 CFR 8 AND 41 CFR PARTS 60-1 AND 60-4.

6. Please respond to or address all comments made by the Corps of Engineers as part of their biddability and constructibility review.

BUFFALO INFLUENT & OUTFALL SEWERLINE  
CONTRACT #3

Department of Environmental Quality  
Grants Section Review Comments

1. General Comment: The maximum distance between manholes for thirty inch lines is 500 feet.
2. Sheet #5/22 - What is the elevation of the existing overflow pipe?
3. Sheet #6/22 - What is the elevation of the telephone cable at station 47+75?
4. Sheet #7/22 - What is the elevation of the telephone cable at station 59+00?
5. General Comment: Is the outfall line gravity? If it is gravity, there are no manholes in it.
6. Sheet #10/22 - Has permission been obtained to cross interstate highway with the sewer line?

BUFFALO TRUNK SEWER SYSTEM IV

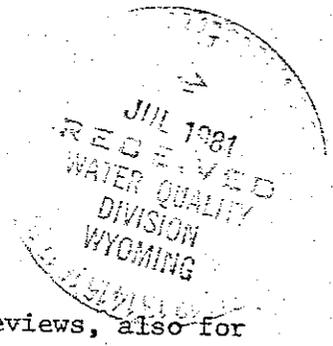
Department of Environmental Quality  
Grants Section Review Comments

1. General Comment: Ten State Standards requires that for sewers less than fifteen inches in diameter, the distance between manholes be no greater than 400 feet.
2. Sheet #3/26 - Will the sewer line to the existing treatment plant from manhole #5 be plugged?
3. Sheet #3/26 - Label treatment plant where BM-B is located.
4. Sheet #2/26 - Label treatment plant where BM-A is located.
5. Sheet #10/26 and 10/25 - Will there be any shoring done in the construction of line between stations 77+00 and 96+31?
6. Sheet #10/26 - What provisions will be made in crossing ditches?
7. Sheet #10/26 - Where is the depression for drainage ditch at Station 93+32 on Profile Sheet?
8. Sheet #11/26 - Where is the water line in the profile view at Station 98+00?
9. Sheet #11/26 - See comment #6.
10. Sheet #12/26 - Where is the crossing twenty-four inch C.M.P. line at Station 107+58 on the Profile Sheet?
11. Sheet #12/26 - Where is the crossing thirty-six inch C.M.P. at Station 114+24 on the Profile Sheet?
12. Sheet #13/26 - Where is the crossing gas line at Station 115+00 on the Profile Sheet?
13. General Comment: Show match lines at stations where sewer lines are broken between manholes.
14. General Comment: Include a vicinity map of project.
15. Sheet #16/26 - Show profile depth of gas, sewer and water lines at stations 151+36, 151+30, and 151+45.
16. Sheet #16/26 - Show profile depth of crossing water line at station 153+06.
17. Sheet #16/26 - Show profile depth of crossing twenty-four inch C.M.P. at Station 158+78.
18. Sheet #16/26 - Show profile depth of water line at Station 160+86.
19. Sheet #17/26 - Give slope of sewer line between stations 172+62.92 and 173+11.89.

Mike Hackett

81-319  
CITY OF BUFFALO  
WASTEWATER TREATMENT PLANT

Review Comments



1. A schematic for piping would have been helpful for the reviews, also for bidding this project.
2. Is it possible to have short-circuiting in primary pond #1 with inlet and outlet place as shown on sheet #4?
3. I could not find where in the specifications that the door to the chlorinator room was equipped with panic hardware.
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5. I would like to see the sludge balance for each step of treatment, especially polishing pond #1.
6. What cities in our area, that CWC might know of, have this type of system?
7. This office has not received the design calculations for this project.

A large, stylized handwritten signature in cursive script, appearing to read "Loren".

Loren Leichtnam  
July 27, 1981



*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Mike Hackett  
FROM: Phil Pucel *pp*  
DATE: August 14, 1981  
SUBJECT: Town of Buffalo Sewage Pond & Groundwater Analysis, DEQ/WQD Ref. No. 81-319

Groundwater Quality Analysis samples were taken on July 6, 1981.

Oil and Grease:

ND (0.5) is reported for 4 wells (#1, #2, #4 and #6), meaning that oil and grease was not detected using the lower detection limit of the test: 0.5 mg/l. However, well #3 shows a level of 0.06 mg/l. These results seem to indicate an inconsistency in water quality analysis procedures. Note that domestic water has a limit of "virtually free".

Phenols:

Four wells (#3, #4, #5 and #6) were reported at ND (0.01), whereas the limit for Class I water is 0.001 mg/l. Wells #1 and #2 exceed this limit.

Iron:

Well #5 exceeds the Class I Fe limit of 0.3 mg/l with a reported amount of 0.6 mg/l.

Mercury:

Hg was analyzed at a lower detection limit of 0.001 mg/l, whereas the limit for Hg levels in livestock water is 0.00005 mg/l. Are any wells used for livestock?

Radiological Analysis:

Water samples should be analyzed according to Wyoming Water Quality Rules & Regulations, Chapter VIII.

Combined total: Radium 226 and Radium 228

Memo to Mike Hackett  
Town of Buffalo, DEQ/WQD Ref. No. 81-319

Total Strontium 90

Gross alpha particle radioactivity (including Radium 226 but excluding Radon and Uranium).

General Comments:

More information is needed to assess the potential impact on the local water supply. Provide:

1. Well logs, well completion data, and water use.
2. Geological information such as:
  - a. aerial distribution of formation on units.
  - b. dip and strike
  - c. faults, dikes, sills, and other intrusives and extrusives
  - d. lithology of rock units
  - e. thickness of rock units
3. Hydrologic information:
  - a. water table map
  - b. distribution and depth of water table
  - c. identify confined aquifers supplying existing wells

cc: Tony Mancini

C.E.B

PERMIT TO CONSTRUCT

Permit No. 81-320R

- New  
 Renewal  
 Modified

Solo Service - Trailer Dump Station  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Solo Oil Company

c/o Deryl Safford

Box 2853

Casper, WY 82602

to construct, install, or modify a recreational vehicle sanitary dump station facility according to the procedures and conditions of the application No. 81-320R. The facility is located in Section 8, T33N, R75W in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, 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 Department of Environmental Quality, 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: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
P.E. #1479  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
Administrator  
Water Quality Division

  
ROBERT E. SUNDIR  
NO. 285  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
Director  
Dept. of Environmental Quality

August 5, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Albert Nelson  
Nelson Engineering  
Box 1599  
Jackson, WY 83001

6-10-81

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: Solo Service - Trailer Dumping Station

ARCHITECT OR ENGINEER: Albert L. Nelson  
Nelson Engineering

WATER QUALITY DIVISION REFERENCE NUMBER: 81-320

REVIEWING ENGINEER: Thomas S. Norman *Thomas S. Norman*

DATE OF REVIEW: June 8, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. DEQ must have a letter from the Town of Glenrock stating that they will accept the wastes and that adequate treatment capacity is available.
  
2. I have assumed that the wastes will enter the discharging lagoon system (the system on the west side of Deer Creek). Concern is shown for the possible effect on (a) the NPDES permit requirements and (b) possible toxic and/or anaerobic effects on the lagoon from both the anticipated chemicals and the additional BOD/COD loading from the septage. Please document what impacts might be expected and their influence on treatment.

6-10-81

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: Spider O & M Complex

ARCHITECT OR ENGINEER: Walter Terry, Jr.  
U.S. Dept. of Energy

WATER QUALITY DIVISION REFERENCE NUMBER: 81-321

REVIEWING ENGINEER: Thomas S. Norman *Thomas S. Norman*

DATE OF REVIEW: June 8, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Note 3 on plans. It is the responsibility of the engineer to show all existing utilities on the plans. Of particular concern is the location of any sewer mains or services. Please designate on the plans all utilities.
2. Note 4 on plans. It may be a matter of terminology, but the latest approved set of specifications for Mills is 1979 (Permit No. 79-672) not 1980. They were approved December 4, 1979. Please clarify.

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 81-321R

Spider O&M Complex  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Mills

P. O. Drawer 789

Mills, WY 82644

to construct, install, or modify approximately 100 l.f. of water main facility according to the procedures and conditions of the application No. 81-321R. The facility is located in NE 1/4, SW 1/4, NE 1/4, Section 11, T33N, R88W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

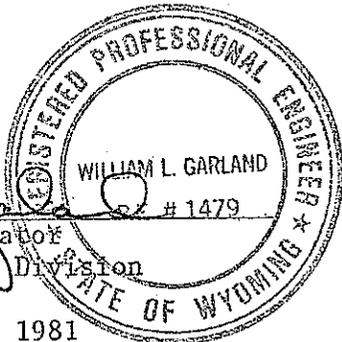
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

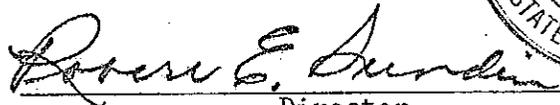
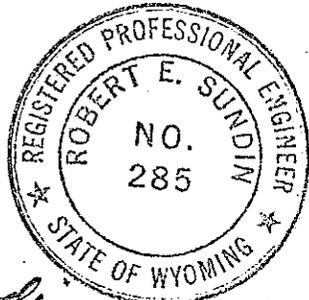
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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.

AUTHORIZED BY:

  
  
 Administrator  
 Water Quality Division

  
  
 Director  
 Dept. of Environmental Quality

June 29, 1981  
 Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Walter R. Terry, Jr.  
 U.S. Dept. of Energy, Western Area Power Admin.  
 P. O. Box 589  
 Mills, WY 82644



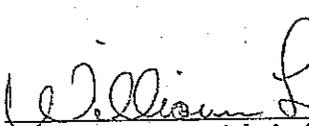
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming, 82801; telephone 672-6457.

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AUTHORIZED BY:

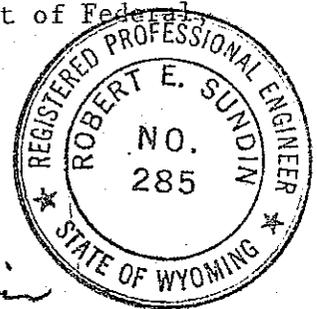
  
WILLIAM L. GARLAND  
#1074  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING

Administrator  
Water Quality Division

July 13, 1981  
Date of Issuance



Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.



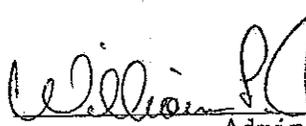
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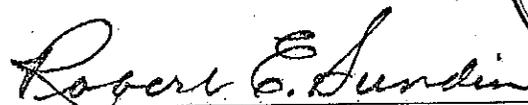
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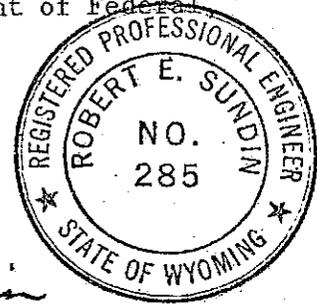
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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
P.E. # 1479  
Administrator  
Water Quality Division  
STATE OF WYOMING  
July 27, 1981  
Date of Issuance

  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.

CONDITIONS

1. Shop drawings of the lagoon aeration system must be submitted to this agency and approved before construction or installation of such equipment.
2. Upon completion of each water well, the well shall be tested for actual yield and drawdown. The test shall be performed against actual system pressure at the well stie, and shall be continued until drawdown has stopped. A report shall be forwarded to this agency indicating location of the well, date(s) of testing, actual production under the conditions specified above, and location of the next well to be drilled in order to reach the total production rate of 555 gallons per minute as outlined in the application.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
2161 Coffeen Ave., Suite 301  
Sheridan, Wyoming 82801

PROJECT: Crestview Estates Subdivision

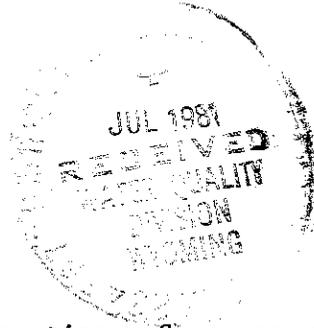
ARCHITECT OR ENGINEER: TSP Wyoming, Inc.  
1058 Kentucky Avenue  
Sheridan, Wyoming 82801

WATER QUALITY DIVISION  
REFERENCE NUMBER: 81-323

REVIEWING ENGINEER: Tom Mueller *DKim KP*

DATE OF REVIEW: July 10, 1981

ACTION: Not Authorized for Construction. See comments.



COMMENTS:

1. Basic information regarding the water supply must be supplied before a Permit to Construct can be issued. In particular, design of chlorination facilities (typical for each well site) and sizing criteria and foundation design for the storage tank must be provided. Additionally, there is substantial relief in the topography and the methods to be used for providing adequate, but not excessive, pressures throughout the subdivision must be indicated. (Refer to Ten States Standards).
2. The cross connection to the Antelope Valley water system will not be allowed unless a) the different water supply reservoirs are at the same elevation, or other steps are taken to prevent continuous tank overflow in the event of cross connection activation, and b) this office receives a document legally verifying who will have authority to operate this cross connection, under what conditions it will be operated, and indicating the willingness of the Hidden Valley Home-owners Association to accede to such a cross connection.
3. Chlorination equipment for the lagoon discharge will be required.
4. Site suitability data for the lagoon system must be provided. Particularly needed is soils information which can be used to predict actual seepage from the lagoon. In the event such information cannot be obtained, design for a lagoon liner, complete with calculations, must be provided.
5. Flow measurement capability for the lagoon outfall must be provided, as well as an actual free fall at the point of discharge, in order that a good sample can be taken. It would be best if a detail drawing of the outfall were prepared.
6. When the permit to construct is issued, a condition will be attached to the effect that shop drawings of the aeration system, including installation drawings, must be submitted prior to construction of the aeration system.



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.

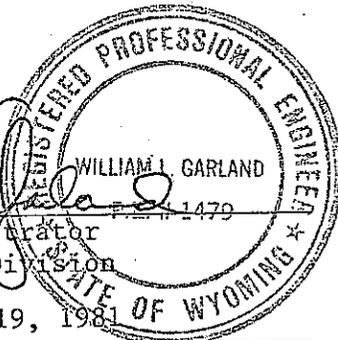
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

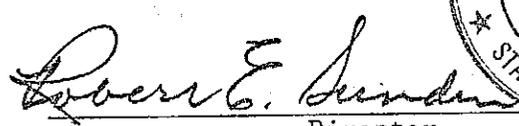
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

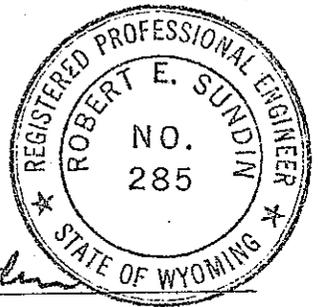
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
1479  
Administrator  
Water Quality Division  
June 19, 1981



  
ROBERT E. SUNDIN  
NO. 285  
Director  
Dept. of Environmental Quality



Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

JH:nb

PERMIT TO CONSTRUCT

New

Permit No. 81-325R

Renewal

Modified

HOFFMAN AND ASSOCIATES OFFICE BUILDING

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Darrel Hoffman

P.O. Box 3729

Jackson, WY 83001

to construct, install, or modify a \_\_\_\_\_

septic tank - leach bed

\_\_\_\_\_ facility according to the procedures and conditions of the

application No. 81-325R. The facility is located in \_\_\_\_\_

Lot 611-C, Lakeview Estates Subdivision, Sec. 29, T. 37N, R. 118W.

\_\_\_\_\_ in the County of Teton,

in the State of Wyoming. This permit shall be effective for a period of two

years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, 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.

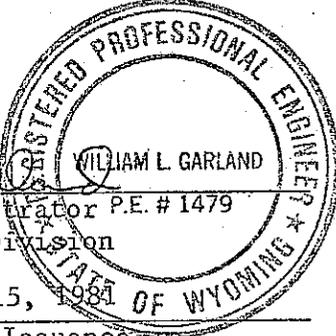
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

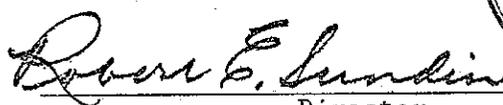
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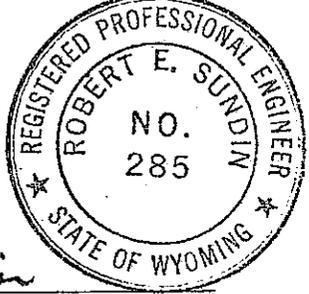
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
July 15, 1981  
Date of Issuance



  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.

RR:nb  
7/15/81

0.001

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Hoffman & Associates Office Building Septic System

ENGINEER: Peter M. Jorgensen  
PO Box 1142  
Jackson, WY 83001

OWNER: Darrel Hoffman  
PO Box 3729  
Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 81-325

REVIEWING ENGINEER: Rich Ruyle

DATE OF REVIEW: June 30, 1981

ACTION: Not authorized.

COMMENTS:

1. A P.E. stamp or signature is needed on the plans and specifications.
2. For future reference, percolation tests normally must be site specific at the location of the proposed leach field. An exception can be made in this case because the waste volume is small and the bed is somewhat oversized at 55 gal/person/day.
3. Also for future reference, the conversion factor for leach field to leach bed is 1.8.
4. I have taken the liberty of specifying Schedule 40PVC for the inlet and outlet pipe to the septic tank, as required by Chapter III.

Feel free to call with questions.

RR:ch

A

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: SIX INCH WATER MAIN EXTENSION, COUNTY ROAD TO COLLEGE

ENGINEER: PACIFIC POWER & LIGHT CO.  
920 S.W. SIXTH AVENUE  
PORTLAND, OR 97204  
ATTN: ROBERT SVENDSEN

OWNER: PACIFIC POWER & LIGHT CO.  
920 S.W. SIXTH AVENUE  
PORTLAND, OR 97204  
ATTN: ROBERT SVENDSEN

WATER QUALITY DIVISION REFERENCE NUMBER: 81-326

REVIEWING EVALUATOR: FRANK LABARGE *FL*

DATE OF REVIEW: JUNE 9, 1981

ACTION: Not authorized.

COMMENTS:

The following points need to be resolved before a "Permit to Construct" can be issued:

1. Please note on the plan sheet that "Wyoming Public Works, Standard Specifications" will be used for this project.
2. There doesn't appear to be 18 inches of separation between the proposed 6 inch A.C. water main and the existing 8 inch P.V.C. sewer. A note should be placed on the drawing referencing Section 301 of the Public Works Standards for unusual conditions which apply here.

Please submit the required information and revised drawings, in triplicate, to this office. If you have any questions, please call me.

A B



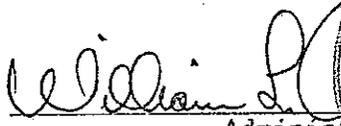
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

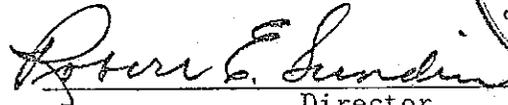
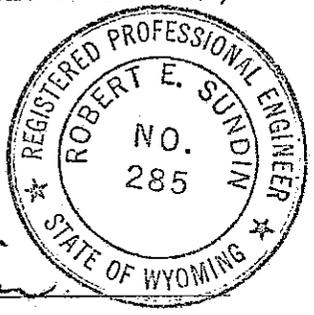
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

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.

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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
1479  
Administrator  
Water Quality Division  
  
June 18, 1981  
Date of Issuance

  
ROBERT E. SUNDIN  
285  
Director  
Dept. of Environmental Quality  


This permit does not supercede the requirements for obtaining any permit from local agencies.

FL:nb



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 Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming, 82801; telephone 672-6457.

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.

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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
P.E. #1478  
Administrator  
Water Quality Division  
STATE OF WYOMING  
October 26, 1981  
Date of Issuance

  
ROBERT E. SUNDIN  
NO. 285  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
Director  
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

xc: Michael G. McDill  
400 W. Boxelder  
Gillette, WY 82716

5-5-73

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 81-328R

Ports of Entry, I-80 & I-25  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Wyoming Highway Department

P. O. Box 1708

Cheyenne, WY 82001

to construct, install, or modify a wastewater collection and subsurface disposal facilities facility according to the procedures and conditions of the application No. 81-328R. The facility is located in Section 23, T13N, R67W (I-25) and Section 23, T14N, R65W (I-80) in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

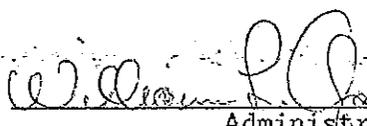
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

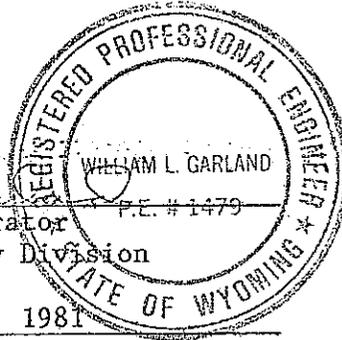
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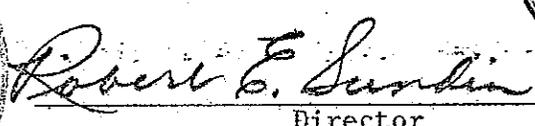
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

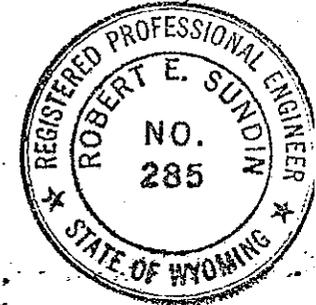
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
Administrator  
Water Quality Division  
July 21, 1981  
Date of Issuance



  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Ed Nowack  
Banner Associates, Inc.  
P. O. Box 550  
Laramie, WY 82070

U.S. EPA  
Safe Drinking Water Program Office

7-1-81

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: I-25 & I-80, Ports of Entry, Cheyenne East

ARCHITECT OR ENGINEER: Ed Novak, Banner Assoc., Inc.  
P.O. Box 550, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 81-328

REVIEWING ENGINEER:  LeRoy C. Feusner, P.E.

DATE OF REVIEW: June 23, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. I-25 Port of Entry

1. The plans and specifications must carry the signature or seal of the design engineer who is licensed in the State of Wyoming.
2. Does the 1200 average daily traffic count reflect overall interstate traffic of the actual number of vehicles which stop at a port of entry? The wastewater design flowrate should reflect an average of 1.5 people/vehicle with an average flow of 5 gallons/person for a port of entry. The design flowrate for employees should be 35 gallons/person/shift.
3. Based upon the status of Comment #2, the wastewater collection/treatment system may require redesign.
4. The allowable loading rate for a soil absorption field with an average percolation rate of 13 minutes/inch is 0.75 gallons/square foot. Additionally, the soil absorption area may only include the trench areas where wastewater will be applied, not the entire field area.
5. What is the depth to groundwater under the proposed soil absorption field? What is the direction of groundwater flow? Are there any existing water wells within a 1/2 mile radius of the proposed facility? If groundwater is near the surface, samples to determine background quality may be required.
6. The liquid capacity of the dosing tank must be sufficient to dose the field no more than four times daily at the design flow. For systems larger than 2000 gallons per day, it is recommended that the field be split and the separate portions dosed with alternating siphons. The siphon must be sized to empty the dosing tank in less than 20 minutes.
7. The siphon vent (overflow pipe) should extend at least three inches above the high water line.
8. The dosing chamber should be vented to atmosphere by installing a vent to extend at least one foot above grade with a downward facing screened elbow.

9. How will water from roof drains, basement sump pump, and scale sump pump be disposed of?
10. Reference Specifications, Section 28. What are the 1980 specifications? If they have been approved by DEQ, a note may be placed on the drawing indicating their use. Otherwise, provide two copies for our review.

B. I-80 Port of Entry

1. Same as A.1.
2. Same as A.2.
3. Same as A.3.
4. The allowable loading rate for a soil absorption field with an average percolation rate of 25 minutes/inch is 0.50 gallons/square foot.
5. Same as A.5.
6. Same as A.6.
7. Same as A.7.
8. Same as A.8.
9. Same as A.9.
10. Same as A.10.

cc: State Highway Dept.  
P.O. Box 1708  
Cheyenne, WY 82001

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 81-329

See Special Conditions

Bob Meloy - Lot 57  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Robert Meloy

1832 Jim Bridger Avenue

Casper, WY 82601

to construct, install, or modify two subsurface wastewater disposal facilities according to the procedures and conditions of the application No. 81-329. The facility is located in Section 27, T34N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

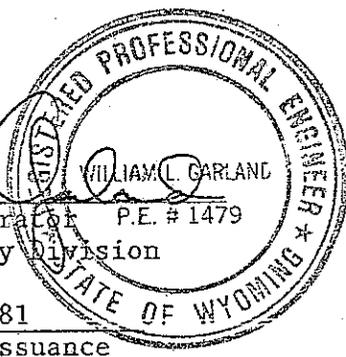
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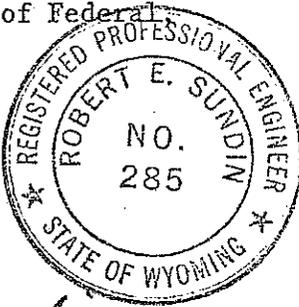
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:

  
*William L. Garland*  
Administrator P.E. # 1479  
Water Quality Division  
July 1, 1981  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Detmer R. Knapp  
1380 Bretton  
Casper, WY 82601

Conditions to Permit to Construct

The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Casper Urban Water Quality Management Plan requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be abandoned or integrated into the regional system in accordance with the requirements of the Casper Urban Water Quality Management Plan and the Final 201 Facility Plan.

LEF

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
1111 East Lincolnway  
Cheyenne, Wyoming 82002

PROJECT: Yoder Water Main Extension No. 1

ARCHITECT OR ENGINEER: Charles A. Haas, Wells Engineering, Inc.  
1225 Sage Street, Gering NE 69341

WATER QUALITY DIVISION REFERENCE NUMBER: 81-330R

REVIEWING ENGINEER: Theodore D. Coyer, P.E.

*Theodore D. Coyer*

DATE OF REVIEW: August 12, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The Yoder potable water supply system is apparently incapable of meeting the required fire flow demands. Therefore, before we can take further action on this project, we will need an explanation as to what will be done to increase the system capabilities and when it is anticipated that improvements will be made. We will need this information from the Town of Yoder.

8-20-71

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 81-330RR

Water Main Extension No. 1  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Yoder

P.O. Box 86

Yoder, WY 82244

to construct, install, or modify a potable water supply distribution system facility according to the procedures and conditions of the application No. 81-330RR. The facility is located in Section 34, T23N, R62W in the County of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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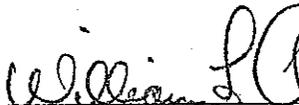
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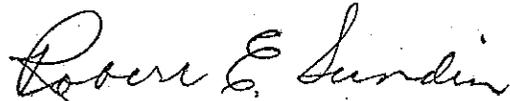
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AUTHORIZED BY:

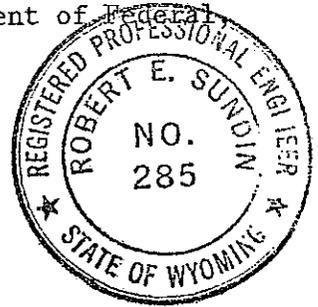
  
WILLIAM L. GARLAND  
# 1479  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING

Administrator  
Water Quality Division

August 19, 1981  
Date of Issuance



Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Charles A. Haas, P.E.  
Wells Engineers, Inc.  
1225 Sage Street  
Gering, NE 69341

M  
7-1-81

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: Yoder Water Main Extension No. 1

ARCHITECT OR ENGINEER: Charles A. Haas, Wells Engineering, Inc.  
1225 Sage St., Gering, NE 69341

WATER QUALITY DIVISION REFERENCE NUMBER: 81-330

REVIEWING ENGINEER: Theodore D. Coyer, P.E. *Theodore D. Coyer*

DATE OF REVIEW: June 25, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The minimum pipe size acceptable is 6-inch diameter.
2. Please show the details of the water main installation; such as thrust blocking and sewer pipe crossings.
3. Please provide a profile of each water main segment.
4. Since a dry barrel type fire hydrant will be used, what is the elevation of the seasonally high groundwater table.
5. What is the static pressure of the system and the anticipated pressures under fire flow conditions?
6. Is this an expansion of the existing water supply system? If yes, what is the capacity of the water supply source?

cc: Town of Yoder  
P.O. Box 86  
Yoder, WY 82244

7-1-81

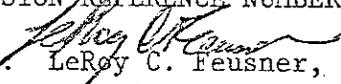
Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: City of Rawlins Wastewater Treatment Facility

ARCHITECT OR ENGINEER: Mickey Yamashiro, Nelson Engineering  
P.O. Box 1599, Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 81-331

REVIEWING ENGINEER:  LeRoy C. Feusner, P.E.

DATE OF REVIEW: June 23, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The plans must carry the signature or seal of the design engineer who is licensed in the State of Wyoming.

cc: City of Rawlins  
John Darrington, City Manager  
Box 953  
Rawlins, WY 82301

683 7-16-81

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 81-331R

City of Rawlins Wastewater Treatment Facilities  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Rawlins

c/o John Darrington, City Manager

P. O. Box 953

Rawlins, WY 82301

to construct, install, or modify a mechanical cleaning bar screen and lagoon erosion control at the City of Rawlins Wastewater Treatment facility according to the procedures and conditions of the application No. 81-331R. The facility is located in Section 24, T21N, R87W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, 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.

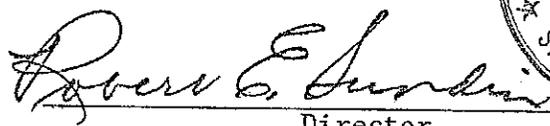
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
# 1479  
Administrator  
Water Quality Division  
STATE OF WYOMING  
July 10, 1981  
Date of Issuance

  
ROBERT E. SUNDIN  
NO. 285  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
Director  
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Nelson Engineering  
430 S. Cache  
Jackson, WY 83001

9-25-81

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 81-332R

Summit Rest Area  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Wyoming Highway Dept.

P.O. Box 1708

Cheyenne, WY 82001

to construct, install, or modify a existing treatment plant, aerated evaporation - retention pond with irrigation system facility according to the procedures and conditions of the application No. 81-332R. The facility is located in Section 26, T15N, R72W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

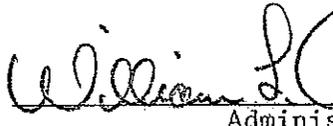
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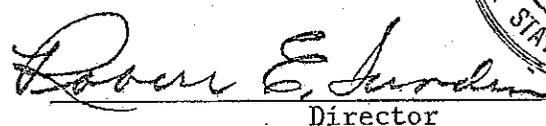
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AUTHORIZED BY:

  
WILLIAM I. GARLAND  
REGISTERED PROFESSIONAL ENGINEER  
NO. 1479  
STATE OF WYOMING  
Administrator  
Water Quality Division  
August 20, 1981  
Date of Issuance

  
ROBERT E. SUNDIN  
REGISTERED PROFESSIONAL ENGINEER  
NO. 285  
STATE OF WYOMING  
Director  
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Gary Brown  
Wyoming Highway Dept.  
P.O. Box 1708  
Cheyenne, WY 82001

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
401 West 19th Street  
Cheyenne, Wyoming 82002

PROJECT: Summit Rest Area

ARCHITECT OR ENGINEER: Leno Menghini & Doug Brown, WHD  
P. O. Box 1708, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 81-332

REVIEWING ENGINEER: Thomas S. Norman *Thomas S. Norman*

DATE OF REVIEW: June 23, 1981

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The application is incomplete. The following information is necessary:
  - a. The size of the existing sewage treatment plant is necessary in order to calculate if the proposed pond has adequate capacity for winter time storage.
  - b. What is the size and storage capacity of the pond?
  - c. What are the irrigation application rates and what is the approximate number of days that the effluent can be applied?
  - d. What is the type of chlorine that is being used and where is it stored?
  - e. Are there any water wells in the area? Are there any water analyses available on their quality?
  - f. What is the depth to groundwater?
  - g. What is the flow capacity of the comminutor?
  - h. What are the aeration capabilities of the proposed aerators? Oxygen transfer? Circulation and mixing capabilities?
2. The comminutor must have a screened by-pass channel in case of:
  - a. mechanical failure
  - b. flows exceed capacity
  - c. power failure

Each comminutor that is not preceded by grit removal equipment should be protected by a 6.0 inch deep gravel trap.

3. Irrigation Pump Specs. I am confused on the sprinkler head specification that requires 10.5 gpm at 45 psi (104 ft. of head) because the irrigation pump only pumps 120 foot of head and friction losses are about 10-15 feet.

Therefore, the only area that will receive 45 psi would be at the same elevation as the pump. What happens at the upper slopes where there is a 72 foot static elevation difference.

Also the 300 foot of irrigation hose will not reach the entire area that is designated for irrigation.

4. A minimum of two ponds is required so that one can be taken out of service for maintenance without interrupting treatment.
5. Some method of flow measurement is required.
6. Because of the potential for explosive gases from sewage, all electrical equipment, heaters, motors, etc. shall be safe to use under these conditions.

Since additional information is necessary for review, these review comments may not be complete.



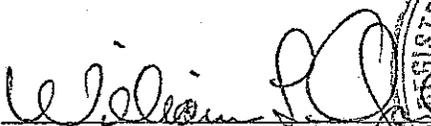
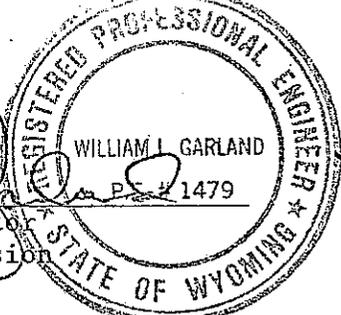
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

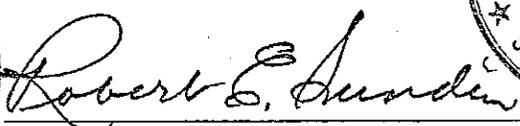
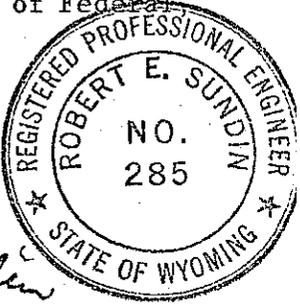
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
P.E. # 1479  
Administrator  
Water Quality Division  


  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  


June 15, 1981

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

AB:ch



*Department of Environmental Quality*  
*Water Quality Division*

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 17, 1981

Mr. Gordon Benson  
Box 169  
Bondurant, WY 82922

RE: Triangle F Lodge: 81-334

Dear Mr. Benson:

The as-built drawings for the above referenced wastewater facility have been received and reviewed. The facility appears to satisfy Wyoming Water Quality Rules and Regulations. This letter is being issued in lieu of a "Permit to Construct," which cannot be issued for existing facilities. This letter should be kept in the Lodge's records.

Respectfully,

Handwritten signature of Albert J. Berreth in cursive.

Albert J. Berreth  
Southwest District Engineer

AJB:nb  
cc: Frank Gerlock  
James Kelson



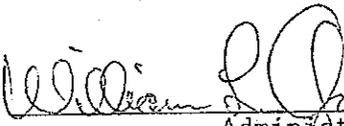
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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
REGISTERED PROFESSIONAL ENGINEER  
No. # 1479  
STATE OF WYOMING

Administrator  
Water Quality Division

July 22, 1981  
Date of Issuance

  
ROBERT E. SUNDIN  
REGISTERED PROFESSIONAL ENGINEER  
NO. 285  
STATE OF WYOMING

Director  
Dept. of Environmental Quality

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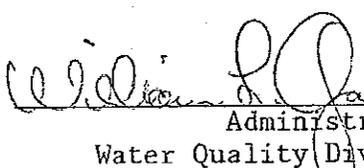
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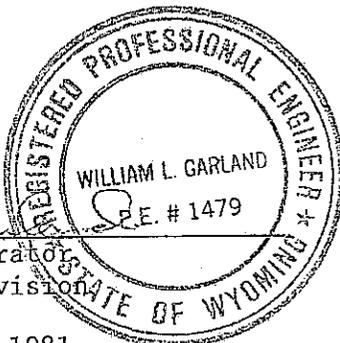
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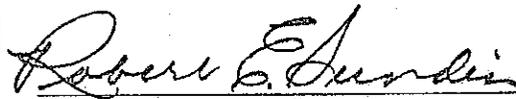
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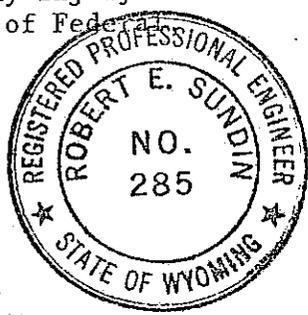
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AUTHORIZED BY:

  
Administrator  
Water Quality Division



  
Director  
Dept. of Environmental Quality



July 22, 1981  
Date of Issuance

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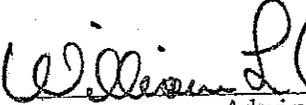
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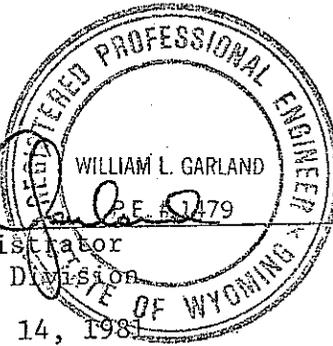
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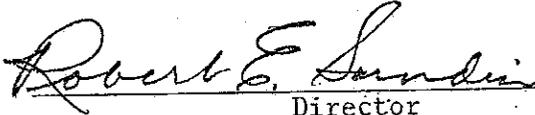
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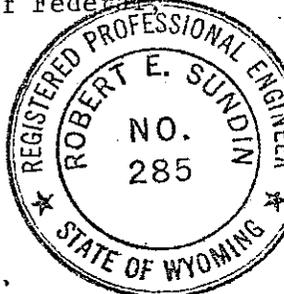
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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
PE 1479  
Administrator  
Water Quality Division  
August 14, 1981  
Date of Issuance



  
Robert E. Sundin  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.



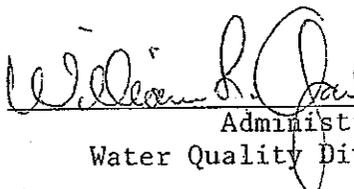
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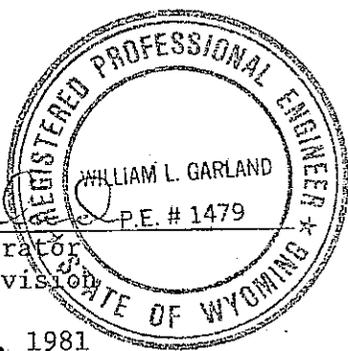
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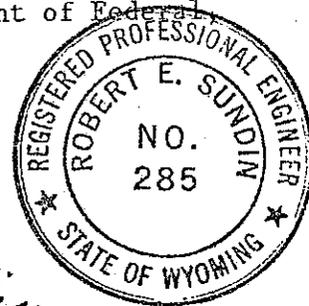
AUTHORIZED BY:

  
Administrator  
Water Quality Division



July 23, 1981  
Date of Issuance

  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.



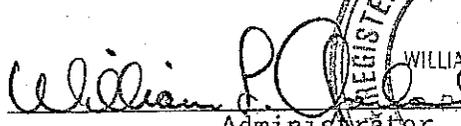
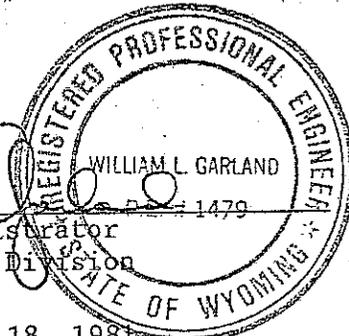
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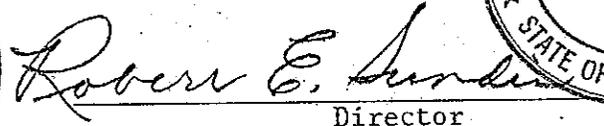
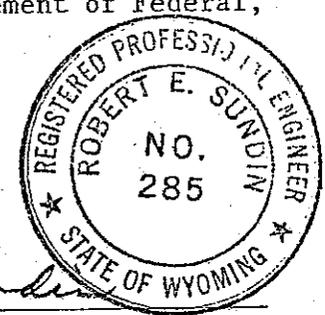
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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
1479  
Administrator  
Water Quality Division  


  
Director  
Dept. of Environmental Quality  


August 18, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 81-340

Ref. No. 80-298

Oakcrest Addition  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Board of Public Utilities

200 North David

Casper, WY 82601

to construct, install, or modify a public water supply and wastewater collection systems facility according to the procedures and conditions of the application No. 81-340. The facility is located in Section 15, T33N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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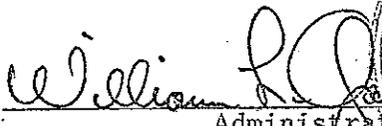
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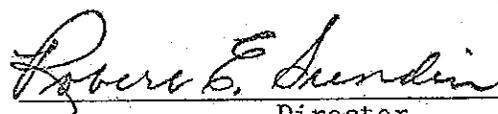
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AUTHORIZED BY:

  
\_\_\_\_\_  
WILLIAM L. GARLAND  
PE # 1479  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING

Administrator  
Water Quality Division

  
\_\_\_\_\_  
ROBERT E. SUNDIN  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
NO. 285

Director  
Dept. of Environmental Quality

June 29, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Kent Wolz  
Wolz & Associates  
933 W. 14th Suite 1  
Casper, WY 82601

Chuck Davis  
Casper City/County Planners  
200 N. David  
Casper, WY 82601



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.

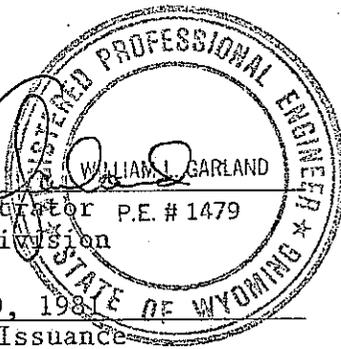
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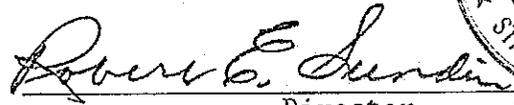
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

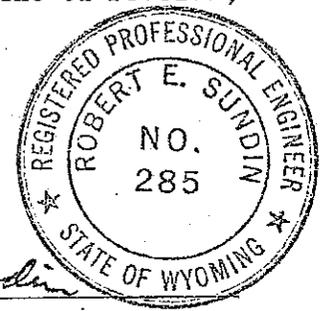
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
WILLIAM J. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
June 19, 1981  
Date of Issuance



  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.

MRC:nb



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.

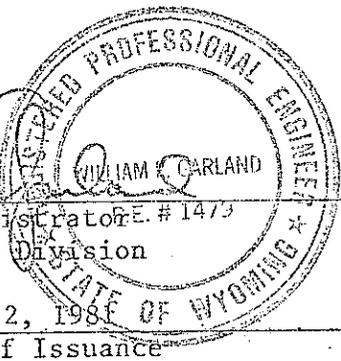
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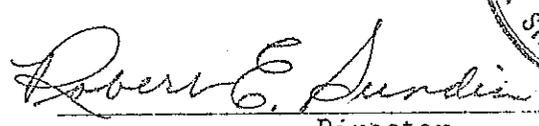
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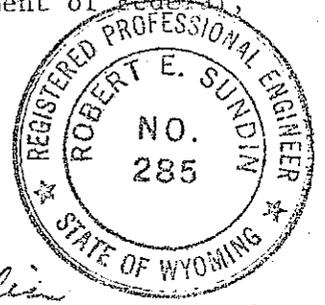
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AUTHORIZED BY:

  
WILLIAM C. CARLAND  
Administrator E. # 1473  
Water Quality Division  
September 2, 1981  
Date of Issuance



  
Robert E. Sundin  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.

FL/pm  
9/4/81



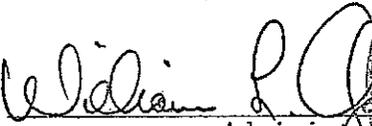
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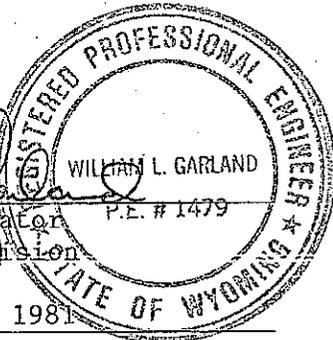
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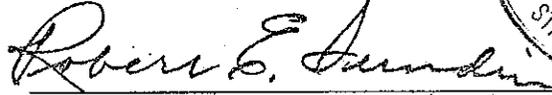
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

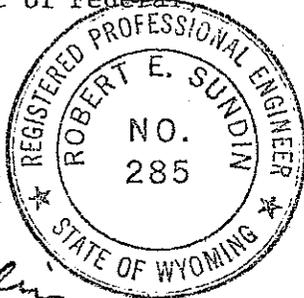
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division  
June 19, 1981  
Date of Issuance



  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality



This permit does not supercede the requirements for obtaining any permit from local agencies.

MRC:nb



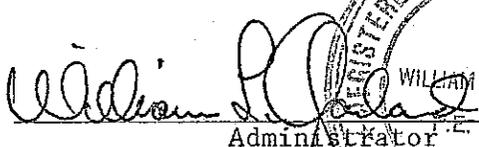
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

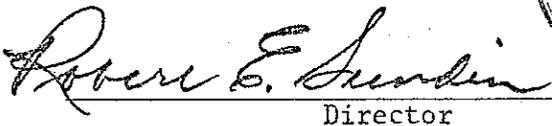
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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
E. # 1479  
Administrator  
Water Quality Division  
STATE OF WYOMING  
REGISTERED PROFESSIONAL ENGINEER

  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  
STATE OF WYOMING  
REGISTERED PROFESSIONAL ENGINEER  
NO. 285

June 19, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

JH:nb

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-348R

PARSON-JAMISON PIT SEPTIC TANKS-LEACH FIELD  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Parson Ready Mix Co.  
1925 Highway 30W  
Evanston, WY 82930

to construct, install, or modify a two septic tanks and one leach field

facility according to the procedures and conditions of the application No. 81-348R. The facility is located in Sec. 19, T.14N., R.119W.

in the County of Uinta,

in the State of Wyoming. This permit shall be effective for a period of two years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and

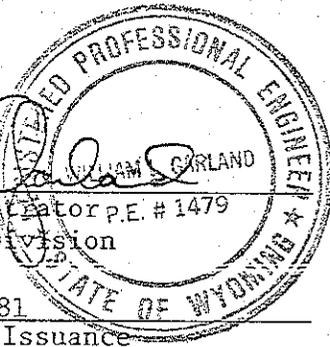
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

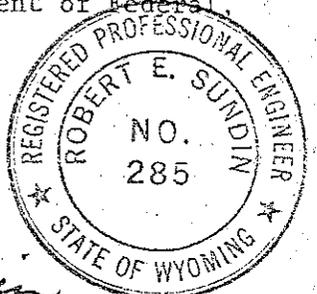
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

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.

AUTHORIZED BY:

  
*William L. Garland*  
Administrator P.E. #1479  
Water Quality Division  
June 30, 1981  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.



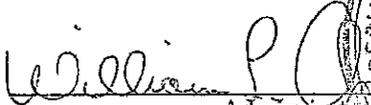
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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
P.E. # 1479  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING

Administrator  
Water Quality Division

  
ROBERT E. SUNDIN  
REGISTERED PROFESSIONAL ENGINEER  
NO. 285  
STATE OF WYOMING

Director  
Dept. of Environmental Quality

July 20, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

AB:nb  
7/20/81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-346R

City of Riverton North 8th Street West Waterline  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Riverton - c/o Bradly Nelson

P. O. Box 1700

Riverton, WY 82501

to construct, install, or modify a public waterline extension

facility according to the procedures and conditions of the application No. 81-346R. The facility is located in Sec. 33, T.1N, R.4E WRM

in the County of Fremont

in the State of Wyoming. This permit shall be effective for a period of two years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and

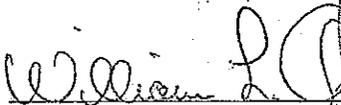
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

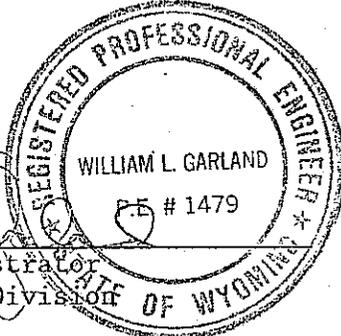
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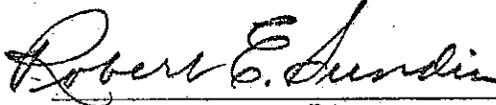
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

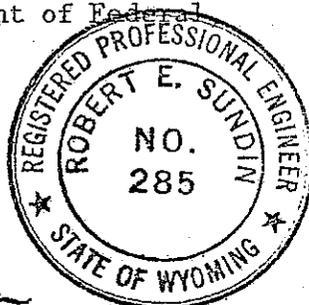
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AUTHORIZED BY:

  
Administrator  
Water Quality Division



  
Director  
Dept. of Environmental Quality



July 17, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

MR:d1  
7/17/81



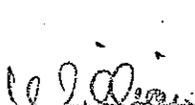
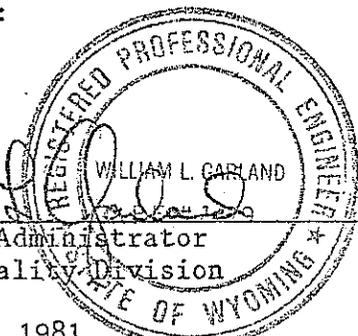
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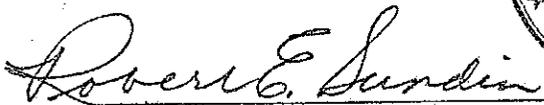
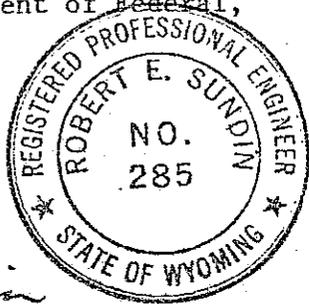
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

AUTHORIZED BY:

  
  
Administrator  
Water Quality Division  
August 27, 1981  
Date of Issuance

  
  
Director  
Dept. of Environmental Quality

This permit does not supercede the requirements for obtaining any permit from local agencies.

RR/ch  
8/27/81

*Quay.*

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Crestview Meadows

ENGINEER: Ken Walker  
Uinta Engineering & Surveying, Inc.  
808 Main  
Evanston, WY 82930

OWNER: International Housing  
645 Main  
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 81-347

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: July 10, 1981

ACTION: Not authorized.

COMMENTS:

The following additional information is needed before a "Permit to Construct" can be issued.

1) Verify that the existing 8" sewer that is being tapped into can handle the new additional peak hourly flow.

2) What type of establishment will be on the commercial lot? What is the basis for 4,000 gpd?

3) The manholes appear to be incorrectly numbered on the plan view of sheet 13.

4) The invert elevation at MH 2K is given as 7035 on sheet 3, and 6935 on sheet 8. Please clarify.

5) There are two MHG's shown on sheet 1. The one on Jared Lane should be MHE.

6) No slope or distances are given on the Catalina Court sewer profile drawing (sheet 6).

*A.B.C*

Review of Plans and Specifications - Crestview Meadows (DEQ #81-347)  
Date of Review - July 10, 1981  
Page 2

7) No sewer crossing is shown on profile at MH 5B (sheets 5 and 9) and no water crossing near MH 2K (sheet 8).

8) Is the new 8" water line connected to the existing water line near MH UV7? If not, it should be. Please show on plan and profile drawings.

9) Has the local fire official approved the location of the fire hydrants?

10) Flushing hydrants or blowoffs should be provided at the dead ends in the water line on Crestview Drive (sheet 4), and on line B off of Laredo Road (sheet 11).

11) Air reliefs should be provided at the high points in the water line such as on Del Rio Drive (sheet 3) and waterline A (sheet 11).

12) Pressure reducers should be used to bring the water pressure to under 100 psi at all points in the distribution system.

13) In the calculations for pressure at Lot 1, Block 2, the friction loss in the existing 10" line on Uinta Drive was not included. Please explain.

14) You should verify that 20 psi can be met under all conditions at the high points in the distribution system.

15) Final approval will be dependent upon Wayne Sheppard's review, which is forthcoming.

Feel free to call me with questions.

RR:nb  
7/15/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Parson-Jamison Pit

ENGINEER: Great Basin Engineering, Inc.  
P.O. Box 1192  
Evanston, WY 82930  
ATTN: A. Bradshaw

OWNER: Parson Ready Mix Co.  
1925 Highway 30W  
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 81-348

REVIEWING ~~ENGINEER~~ EVALUATOR: Frank LaBarge *FL*

DATE OF REVIEW: June 24, 1981

ACTION: Not authorized.

COMMENTS:

The following points need to be resolved, as we discussed on this date, before a "Permit to Construct" can be issued.

1. Does the proposed septic tank meet the specifications shown on the septic tank detail sheet?
2. What is the size of the access manhole in the top of the proposed septic tank?
3. What type of baffles are in the proposed septic tank?
4. Please check the figures, under Disposal #5 (a) and (b) on the "Checklist Sheet." As we discussed, they appear to be in error.

Please submit the required information, in triplicate, to this office. If you have any questions, please call me.

FL:nb  
6/26/81

*AC*



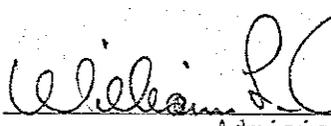
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 933 Main Street, Lander, Wyoming, 82520; telephone 332-3144.

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.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
P.E. # 1479  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING

Administrator  
Water Quality Division

  
REGISTERED PROFESSIONAL ENGINEER  
ROBERT E. SUNDIN  
NO. 285  
STATE OF WYOMING

Director  
Dept. of Environmental Quality

June 30, 1981

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Chapman

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Berta St. Water Line, South Superior, WY

ENGINEER: Tudor Engineering Co.  
450 South Federal Blvd.  
Riverton, WY 82501  
ATTN: Robert Stannard

OWNER: Town of South Superior  
P.O. Box 307  
South Superior, WY 82945

WATER QUALITY DIVISION REFERENCE NUMBER: 81-349

REVIEWING EVALUATOR: Francis LaBarge *FL*

DATE OF REVIEW: June 23, 1981

ACTION: Not authorized.

COMMENTS:

The following points need to be resolved before a "Permit to Construct" can be issued:

- 1) What is the State Engineer's permit number for the water source?
- 2) Please provide a narrative describing the project.
- 3) Please justify the line size.
- 4) Please show the thrust block locations on the plans.

Please submit the required information and revised drawings, in triplicate, to this office. If you have any questions, please call me.

FL:nb  
6/24/81



1-9-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 81-350R

Moxa Arch Sanitary Waste Disposal Facility  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Amoco Production Co.

PO Box 17675

Salt Lake City, UT 84117

to construct, install, or modify a

septic tank - leach field

facility according to the procedures and conditions of the

application No. 81-350R. The facility is located in

Sec. 29, T19N, R112W

in the County of Lincoln,

in the State of Wyoming. This permit shall be effective for a period of Two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and

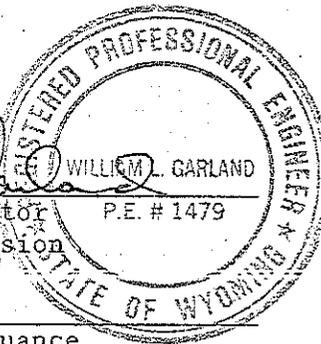
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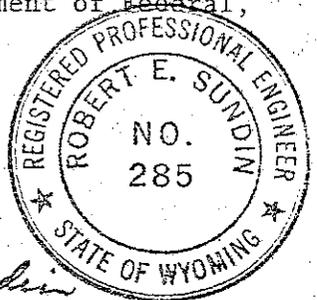
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

AUTHORIZED BY:

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "WILLIAM L. GARLAND" and "P.E. # 1479".

*William L. Garland*  
Administrator P.E. # 1479  
Water Quality Division

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "ROBERT E. SUNDIN" and "NO. 285".

*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

June 30, 1981  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

FL:ch

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Moxa Arch Sanitary Waste Facility

ENGINEER: Tudor Engineering Co.  
450 S. Federal Blvd.  
Riverton, WY 82501  
ATTN: Donald Armstrong

OWNER: Amoco Production Co.  
P.O. Box 17675  
Salt Lake City, UT 84117

WATER QUALITY DIVISION REFERENCE NUMBER: 81-350

REVIEWING ~~XXXXXXXXXX~~ EVALUATOR: Francis LaBarge

DATE OF REVIEW: June 19, 1981

ACTION: Not authorized.

COMMENTS: The following points need to be resolved before a "Permit to Construct" can be issued:

- 1) A minimum septic tank volume of 2,775 gallons is required.
- 2) Septic tank inlet and outlet piping must be schedule 40 PVC or cast iron for a minimum distance of five feet to and from the tank.
- 3) Septic tank baffles must be concrete or plastic.
- 4) Baffles should protrude one inch from the top of the tank to a depth of forty percent of the liquid depth and be located six to eight inches from the septic tank wall.
- 5) The septic tank outlet elevation should be designed to provide a distance of 20 percent of the liquid depth between the top of the liquid and the bottom of the septic tank cover.
- 6) The interior surface of the septic tanks should be coated with a bitumastic or equivalent compound.
- 7) What is the ground slope in the area of the leach field?
- 8) What is the slope of the leach field piping?

Review of Plans and Specifications  
Moxa Arch Sanitary Waste Facility  
Date of Review: June 19, 1981  
Page Two

- 9) Copies of all the information supplied to Tony Mancini are needed by the Lander office.
- 10) How many distribution lines are proposed? What is their total length? Seven lines require a field width of 58 feet. This equals an absorption area of 1,632 ft.<sup>2</sup>, which is less than shown in the calculations.
- 11) A minimum of two inches of gravel is required over the distribution lines.
- 12) Six-inch lines must have a minimum slope of 0.6 percent.
- 13) Additional cover is needed over the line from the control room to MH #1.
- 14) Manhole specifications and details are needed.
- 15) The lift station pump needs to be sized.
- 16) It is anticipated that there will be three dosing cycles per day. Please verify the volume of the leach field piping can accept the flow from a typical dose.
- 17) Will the backflow from the two-inch feeder pipe harm the pump?

GROUNDWATER SECTION COMMENTS

- 18) What is the depth of the leach field?
- 19) Where are the slots in the four bore hole pipes?
- 20) If the groundwater is at 1,000 feet, what do you mean by groundwater fluctuation?
- 21) Can the bore holes be used to monitor possible groundwater contamination?
- 22) How do you retrieve a sample from the two-inch pipes?
- 23) Is the water well for domestic use? It does not meet EPA or state standards for drinking water.
- 24) A condition may be put on the permit requiring the bore holes be monitored quarterly. If any water is in the holes, samples will have to be taken and tested for various parameters specified by DEQ and the results submitted to DEQ.

Please submit the required information and revised drawings, in triplicate, to the Lander office. If you have any questions, please call me.

FL:nb

cc: Tony Mancini, Groundwater Control Supervisor, Cheyenne DEQ/WQD