

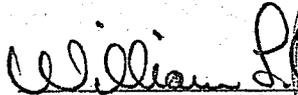
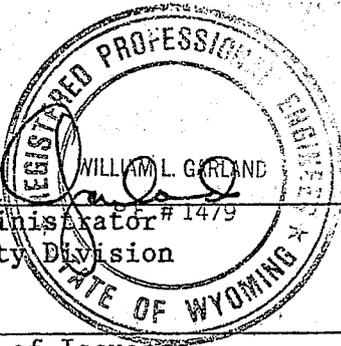
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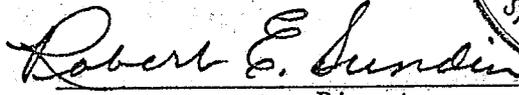
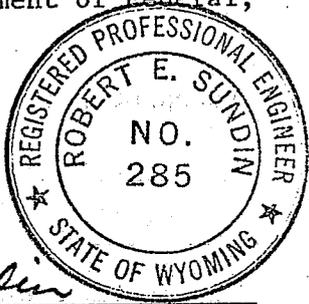
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division

June 4, 1982
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.

AJB:ch

cc: PP&L-Rob Svendson

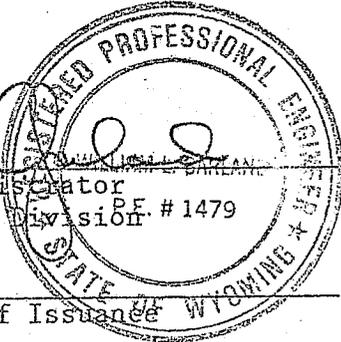
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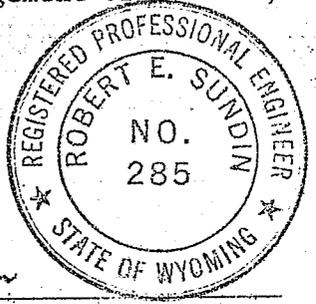
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AUTHORIZED BY:


Administrator
Water Quality Division # 1479
June 22, 1982
Date of Issuance



Director
Dept. of Environmental Quality


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

JB:ch

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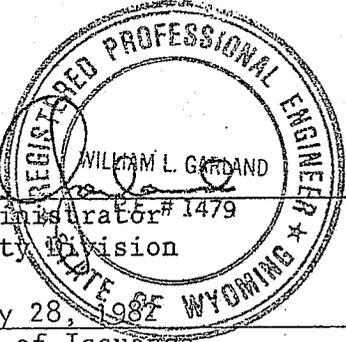
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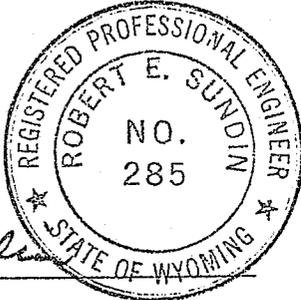
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AUTHORIZED BY:


WILLIAM L. GARDAND
Administrator # 1479
Water Quality Division
July 28, 1982
Date of Issuance




Director
Dept. of Environmental Quality



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

AB:dp

5-27-82

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-254

Outlaw Bowl II Sprinkler System
 (Name of Facility)

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

Carbon County School District No. 1

Carbon Bldg.

3rd and Buffalo St.

Rawlins, WY 82301

to construct, install, or modify a reduced pressure backflow preventer facility according to the procedures and conditions of the application No. 82-254. The facility is located in Section 9, 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.

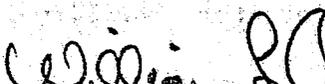
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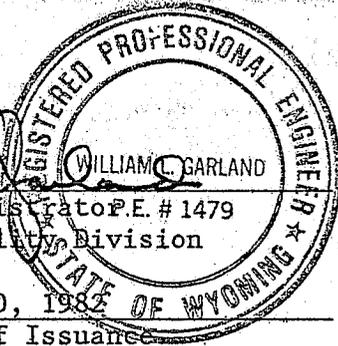
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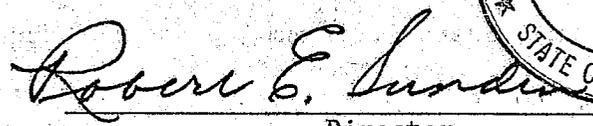
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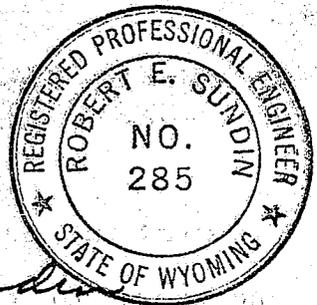
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AUTHORIZED BY:


WILLIAM C. GARLAND
Administrator P.E. # 1479
Water Quality Division
May 20, 1982
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: Edward Nowak
P.O. Box 550
Laramie, WY 82070

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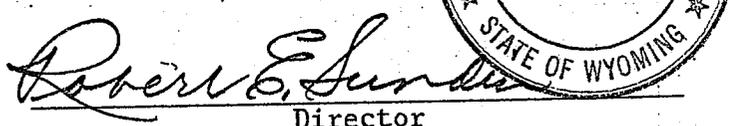
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AUTHORIZED BY:


WILLIAM L. GARLAND
P.E. #61470
Administrator
Water Quality Division
STATE OF WYOMING
October 25, 1982
Date of Issuance


ROBERT E. SUNDA
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.

CONDITIONS

The following are conditions of this permit:

- 1) If a soil liner is used for the lagoons, they will be tested for permeability after they are installed but before the lagoons receive any wastewater. Acceptable test results showing a coefficient of permeability of 2×10^{-7} cm/sec must be submitted to this office prior to the lagoons being put into service.
- 2) The second water supply well will be put into service by the time the maximum daily demand (number of units \times 3.5 people per unit \times 150 gal. per person \times 2.5 peaking factor) on the system exceeds the first well's capacity. Documentation of both well capacities will be forwarded to this office when it becomes available.
- 3) Details of the aeration system will be submitted to this office for review prior to the system being put into service.

xc: Doug Dahms
TSP Wyoming
201 Lakeway Road, Suite 410
Gillette, WY 82716

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: Royal Grove Subdivision

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

WATER QUALITY DIVISION
REFERENCE NUMBER: 82-255R

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: September 9, 1982

ACTION: Not Authorized

COMMENTS:

1. The slope and distance between manholes 12C and 13A on sheet 13 are still not shown. I checked them, though, and they are acceptable.
2. Manholes 10C on sheet 10 and 4D on sheet 4 should be specified as drop manholes.
3. Bypass capability is needed so that either cell can be isolated if the need to drain them arises. Such a piping scheme will also allow for a parallel mode of operation. By this I mean that the flow is split equally between the cells before entering them. I would rather see this than the two inlets you have provided in cell 1.
4. If a clay liner is used for the lagoon bottoms, an acceptable coefficient of permeability must be specified. Use of the native soils with coefficients in the range of 10^{-8} to 10^{-9} cm/sec is certainly acceptable. A condition of the permit will be that the liners be tested for permeability by an independent party after they are installed but before the lagoons receive any wastewater. Each test must reveal a coefficient of permeability of 2×10^{-7} cm/sec or less. Acceptable results must be submitted to this office prior to the lagoons being put into service.
5. Some residences appear to be within 100 feet of the lagoons. While this will not hold up the permit, you should be aware that an odor problem is a possibility and it is important that adequate aeration be provided and maintained to minimize an odor nuisance.
6. Please submit details of the aeration system when they are available. A condition of the permit will be that the aeration system be approved by this office prior to the lagoons being placed in service.

ABC

One thing you will want to ensure is that the influent line to cell 1 terminates within a mixing zone, i.e., the inlet should be adjacent to or surrounded by diffusers so that loading to the cell is evenly distributed.

7. I still do not see where the second well site is located. It's proximity to the lagoons is important. Plans for the interconnecting piping between the second well and the storage tank should be submitted, or they can be approved at a later date under a separate permit if you like.

A condition of this permit will be that the second well be put into service by the time the maximum daily demand (number of units x 3.5 people per unit x 150 gal. per person x 2.5 peaking factor) on the system exceeds the well capacity. You should be aware that this may occur before the completion of Phase I. Documentation of the well capacity should be forwarded to this office when the well is developed.

8. Can any of the blank spaces in the well specs be filled in at this time? These include casing thickness and diameter, depth of well, test pump details, well pump capacity, etc.
9. The wastewater and water supply systems will require a certified operator. You can contact Maggie Davison in Cheyenne for details (777-7093).

NORMA

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: Royal Grove Subdivision
ARCHITECT OR ENGINEER: TSP Wyoming, Inc.
1058 Kentucky Avenue
Sheridan, Wyoming 82801
WATER QUALITY DIVISION
REFERENCE NUMBER: 82-255
REVIEWING ENGINEER: Rich Ruyle *RR*
DATE OF REVIEW: June 25, 1982
ACTION: Not Authorized

COMMENTS:

General

1. A P.E. signature is needed on the drawings.
2. Has the need for backup power been addressed?

Wastewater Collection System

1. No slope or distance is given between MH 12C and MH BA (sheet #13).
2. It would be a good idea to label all the drop manholes.

Water Supply System

1. Two independent sources of water are necessary for a development of this size. The total water source capacity must equal or exceed the maximum daily demand and equal or exceed the average daily demand with the largest producing well out of service.

A State Engineer's permit must be obtained before the wells are drilled.

2. Detail drawings and/or specs are needed for the wells.
3. Pressure calculations are needed for the distribution system to show that 20 psi can be maintained during fireflow (1000 gpm) and peak demand.

Royal Grove Subdivision
June 25, 1982

4. EPA should be contacted to be on their water monitoring program.

Wastewater Treatment Facility

1. I suggest the use of a three cell system (with tapered aeration). I feel the system is too large for two cells to be adequate.

Bypass capability should exist so that any cell can be isolated. A parallel mode of operation should also be possible.

2. Will a synthetic liner be used for the lagoons? If so, material and installation specifications are needed. Will a leak detection system be installed? What is the quality of the groundwater?

The Groundwater Section has told me that groundwater is at 4719 feet which is above the bottom of your lagoons. Is this accurate? How will the problem be dealt with?

3. The influent line between the inlet manhole and cell #1 should have a straight alignment. The invert of the manhole must be at least six inches above the high water level of the lagoon.
4. A concrete apron for the influent line should be shown in the drawings (as referred to in the specs).
5. I prefer to see transfer structures with level control weirs and multi-level drawoffs between cells. The only thing I will insist upon, however, is a near surface drawoff for the last cell. The two drawoff pipes should each have a valve to provide some flexibility in operating the ponds.
6. The 15 minute retention time in the chlorine contact chamber should really be based on peak hourly flow (four times daily average). Please make this change or justify the shorter retention time.
7. Flow measurement is needed for the effluent.
8. Is erosion control provided for at the final outlet point?
9. Please show the distance of the lagoons to the nearest residences and water wells.
10. How are the transfer pipes between cells shown in the drawings supported above the bottoms of the lagoons?
11. A detail drawing should be provided of the air piping system - pipe layout, diffusers, ballast, etc.

Royal Grove Subdivision
June 25, 1982

12. Why are there 40 separate septic systems?
13. Is the treatment facility within the 100 year flood plain?

Feel free to call me with questions and comments.

Norman

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 82-255

Date submitted for review 5-24-82

Name and location of facility Royal Grove Subdivision
Sec 27 T 50 N R 73 W
Campbell Co. Wyo.

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 J. Lump*
Title *Eng. Eval.*
Date *5-26-82*

*Plans returned
to Jordan
5-28-82*

Review Approved *X*
5/26/82
(Date)

Not Approved _____
A J Mancum
(Signed)
Groundwater Control Supervisor

1. NPDES permit has been applied for and is now up for public hearing.
2. State Engineer has not been contacted nor has a permit been issued for the well (Water Supply).
3. Information was not presented concerning location of groundwater table.
4. Based on comment 2 and 3 above TSP engineer, Mr. Doug Dahms, was contacted on May 26, 1982 and questioned on these items. His answers are as follows:
 - a. State Engineer will be contacted and permit for well and water rights requested, this was an oversight.
 - b. Groundwater was located at an elevation of 4,719' (ground elevation in area of lagoon - 4,730') therefore, item will be 6' difference between bottom of lagoon and groundwater.
 - c. While the plans and specifications submitted with application do not indicate it, an impermeable liner is planned for the lagoon. The exact specifications are not formulated at this time.
5. In as much as the information concerning the liner indicated in paragraph 4(c) has not been submitted a final determination for approval can not be made at this time.

8-10-80

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-256R
SEE CONDITION

Sheridan College Natural Science Building
(Name of Facility)

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

Mr. Gordon Ward

Sheridan College

P.O. Box 1500

Sheridan, WY 82801

to construct, install, or modify a sewage collection and public water supply distribution facility according to the procedures and conditions of the application No. 82-256R. The facility is located in Section 2, T55N, R84W in the County of Sheridan, in the State of Wyoming. This permit shall be effective for a period of three (3) 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.

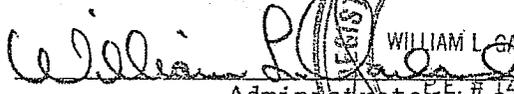
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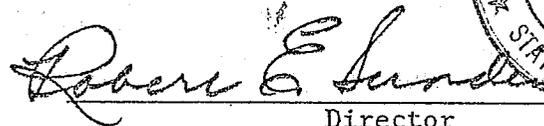
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
STATE OF WYOMING
June 21, 1982
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.

CONDITION

All construction shall be in accordance with the Standard Specifications for the City of Sheridan, Wyoming.

cc: Mr. Dean Helma
Dana Larson Roubal & Associates
Suite 202, Pierre Professional Plaza
124 South Euclid
Pierre, South Dakota 57501

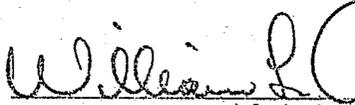
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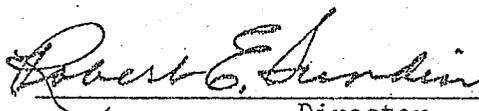
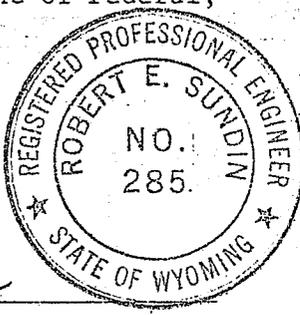
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AUTHORIZED BY:


WILLIAM C. GARLAND
PE # 1479
Administrator
Water Quality Division


June 21, 1982
Date of Issuance


Director
Dept. of Environmental Quality


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

CONDITION

All construction shall be in accordance with the Standard Specifications for the City of Sheridan, Wyoming.

xc: Mr. Dean Helma
Dana Larson Roubal & Associates
Suite 202, Pierre Professional Plaza
124 South Euclid
Pierre, South Dakota 57501

5-18-82



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 18, 1982

Wardwell Water & Sewer District
P.O. Box 728
Mills, WY 82644

RE: DEQ/WQD Reference No. 82-257

Dear Gentlemen:

We have completed our review of the Standards and Specifications for Water Service Installation and Maintenance for Wardwell Water and Sewer District and find they meet minimum State of Wyoming standards for public water supply systems. Any further additions or deletions to these construction standard specifications will require review by the Water Quality Division to ensure continued compliance with State standards. Future applications for public water supply systems for Wardwell Water and Sewer District need only refer to the above specifications on the plan sheet.

Your sewer line construction specifications, submitted under DEQ/WQD Reference No. 82-201, have not yet been approved by this Division.

Sincerely,

LeRoy C. Feusner, P.E.
Southeast District Supervisor

LCF/nc

cc: Russell L. Donley
Western Engineers
501 N. Sun Drive
Casper, WY 82609

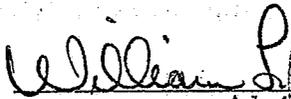
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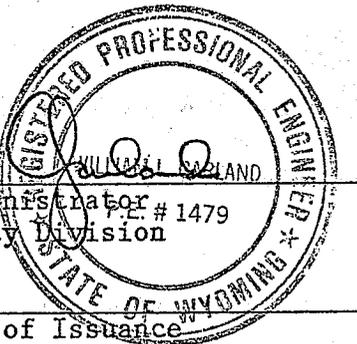
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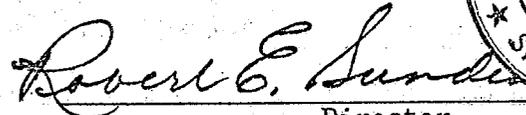
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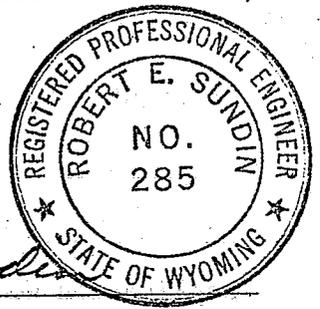
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AUTHORIZED BY:


Administrator
Water Quality Division
June 4, 1982
Date of Issuance




Director
Dept. of Environmental Quality



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

****CONDITION OF PERMIT****

The permit is issued with the condition that the on-site facilities will be abandoned when a public sewage collection line serving the Evanston Area Regional Wastewater Treatment Plant becomes available. Connection to the public sewage collection line must be made at that time.

AJB:ch

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.

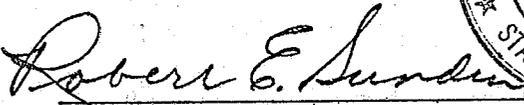
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
STATE OF WYOMING
June 4, 1985
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.

AJB:ch

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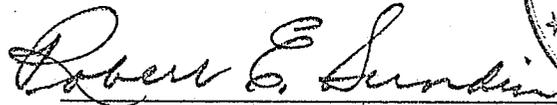
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:


WILLIAM I. GARLAND
REGISTERED PROFESSIONAL ENGINEER
NO. 1479
STATE OF WYOMING
Administrator
Water Quality Division


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

July 21, 1982
Date of Issuance

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

xc: TSP Wyoming, Inc.
1058 Kentucky Ave.
Sheridan, WY 82801

Norma

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Winland Industrial Park Water and Sewer Systems

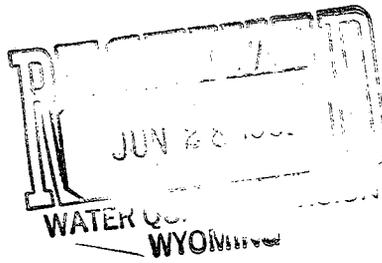
ARCHITECT OR ENGINEER: Doug Dahms
TSP Wyoming, Inc.
1058 Kentucky Avenue
Sheridan, Wyoming 82801

WATER QUALITY DIVISION
REFERENCE NUMBER: 82-260

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: June 23, 1982

ACTION: Not Authorized



COMMENTS:

General

- 1) I could not find a P.E. signature on the plans. This will be needed before we can approve them.
- 2) The size of the sewers and water mains should be noted on the plans or specs. I could not find this information.

Wastewater System

- 1) Will there be services on the sewer extension going to Swanson Road? What is the purpose of the extension? A manhole may be needed at the end of it.
- 2) A vent pipe for the lift station may be a good idea. I will leave this as a suggestion.
- 3) Not having received a discharge permit yet, were effluent limitations assumed and used as a basis of design?
- 4) Manufacturer's details on the Air-O-Gest system would be helpful, i.e., performance data, design basis, profile drawing, etc. (We already have this information from Sanological in our office.)

The specs for the Air-O-Gest plant refer to the chlorine contact chamber as shown on the plan sheets. However, only the Sanological system has its contact chamber shown in detail on the plan sheets. Will the chamber for the Air-O-Gest system be the same? A 500 gallon capacity is needed.

Winland Industrial Park
June 23, 1982

- 5) Have you had previous experience with the Sanological system? My only hesitation is over the fact that no solids removal is provided for. Do you know if this has been a problem in existing systems? Is 30 ppm TSS realistically obtainable?
- 6) Flow measurement is needed for the WWTP effluent.
- 7) The outfall sewer to the drainage channel appears very steep. Is erosion of the channel a potential problem? An outfall detail would be helpful.

Water Supply System

- 1) Information on the water well is lacking. You should provide a profile drawing showing the pump, casing, pitless adaptor, etc., and/or specifications like those provided for other equipment.
- 2) Verification should be provided that 20 psi will be maintained in the water distribution system during fireflow.
- 3) Are the chlorine cylinders in a separate room in the chlorination building?
- 4) The owner should be aware of EPA's monitoring requirements for the water supply system. Information can be obtained at 303-837-2731.

5-26-88

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-261

Town of Burns, Water System Improvements
(Name of Facility)

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

Town of Burns
7300 Yellowstone Road
Cheyenne, WY 82009

to construct, install, or modify a potable water supply distribution facility according to the procedures and conditions of the application No. 82-261. The facility is located in Section 7, T14N, R62W 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.

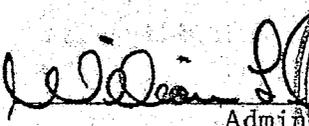
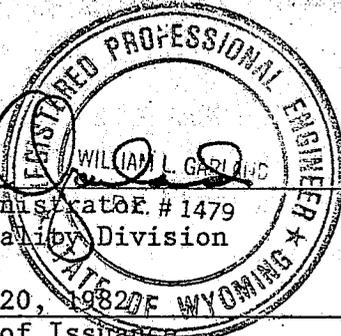
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

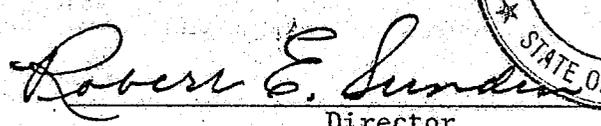
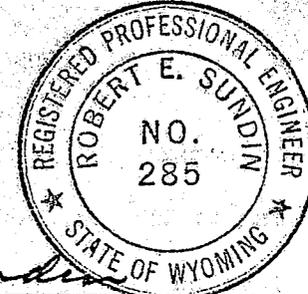
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AUTHORIZED BY:



Administrator # 1479
Water Quality Division
May 20, 1982
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: James D. Voeller
AVI
7300 Yellowstone Road
Cheyenne, WY 82009

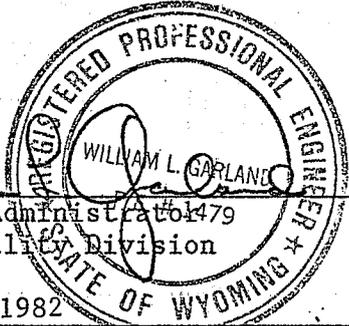
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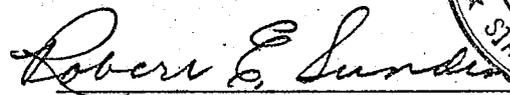
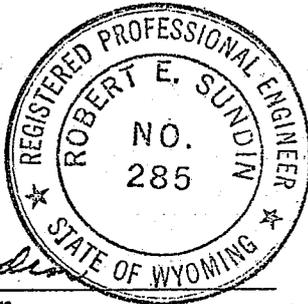
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AUTHORIZED BY:



Administ. #479
Water Quality Division
June 4, 1982
Date of Issuance



Director
Dept. of Environmental Quality

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

AJB:ch

cc: City of Evanston

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-263

Amber Valley Addition
(Name of Facility)

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

Town of Mills

704 4th Street

Mills, WY 82644

to construct, install, or modify a potable water distribution and sanitary sewage collection facilities according to the procedures and conditions of the application No. 82-263. The facility is located in Section 12, T33N, 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.

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.

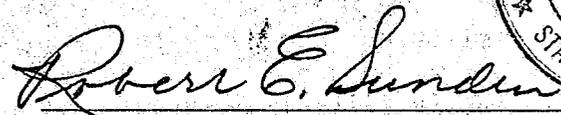
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator #1479
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

May 20, 1982
Date of Issuance

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

cc: Charles K. Wolz
Wolz & Associates, Inc.
933 W. 14th St., Suite 1
Casper, WY 82601

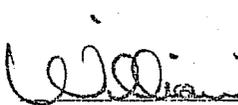
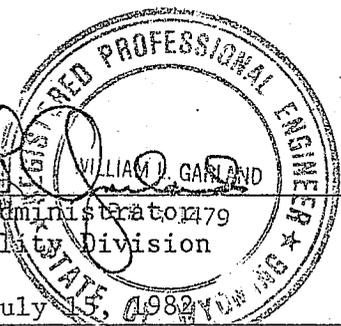
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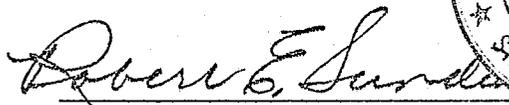
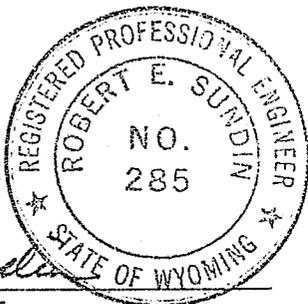
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AUTHORIZED BY:



WILLIAM J. GARLAND
Administrator
Water Quality Division
July 15, 1982
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.

xc: Doyl Fritz
Western Water Consultants
Box 3042
Sheridan, WY 82801

Norma / returned to Sheridan 6-15-82

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 82-264 (Evaluated additional info.)

Date submitted for review 6-14-82

Name and location of facility Wyodak South Pit Settling Pond #2
Sec 33 T 50 N R 71 W
Campbell Co.

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 Lunn
Title Eng Eval
Date June 14, 1982

Review Approved X
6/15/82
(Date)

Not Approved _____
AJ Mancini
(Signed)
Groundwater Control Supervisor

Received
6-2-82

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 82-264

Date submitted for review May 24 1982

Name and location of facility Wydolok South Pit Lilling Pond #2
Sec 33 T 50N R 71 W
Campbell Co.

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.

NOTE: Modification to NPDES permit scheduled to be issued 7/30/82 for this pit/pond.

Signed Richard J. Lunny

Title Eng Eval

Date June 1 1982

Review Approved X

Not Approved _____

6/1/82
(Date)

AJ Mancini
(Signed)

Groundwater Control Supervisor

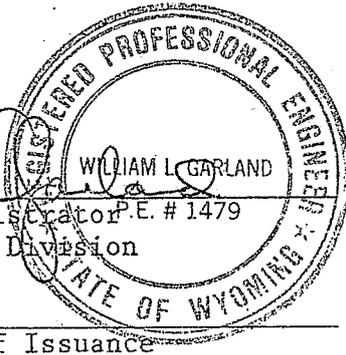
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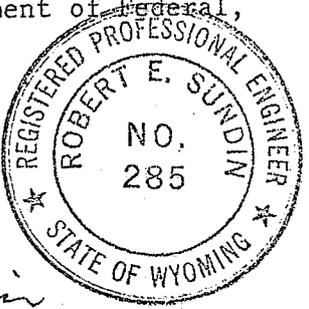
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AUTHORIZED BY:


Adminisrator P.E. # 1479
Water Quality Division



Director
Dept. of Environmental Quality


June 23, 1982

Date of Issuance

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

AB:tc

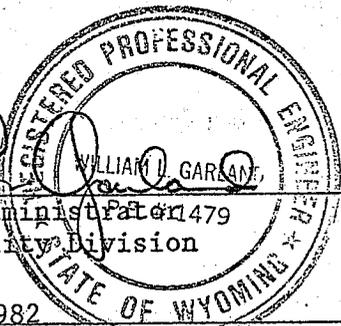
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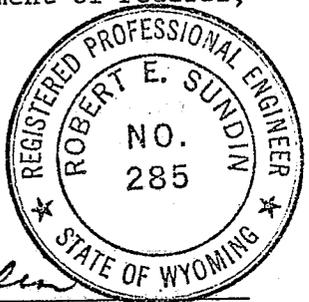
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AUTHORIZED BY:


William J. Garand
Admin. # 1479
Water Quality Division
June 2, 1982
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:ch

7-21-82

PERMIT TO CONSTRUCT

New

Permit No. 82-267R

Renewal

Modified

Spring Creek Channel Improvements
(Name of Facility)

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

City of Laramie

City Hall, P.O. Box C

Laramie, WY 82070

to construct, install, or modify a municipal wastewater collection system facility according to the procedures and conditions of the application No. 82-267R. The facility is located in Section 4, T15N, R73W 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.

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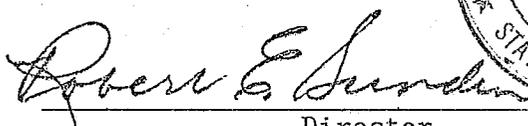
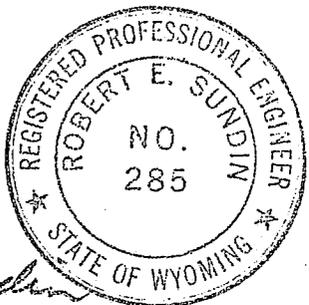
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AUTHORIZED BY:




Administrator
Water Quality Division
STATE OF WYOMING
July 20, 1982

Date of Issuance

Director
Dept. of Environmental Quality

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

cc: Ed Nowak
P.O. Box 550
Laramie, WY 82070

5-28-82

Review of Plans and Specifications

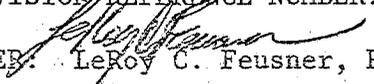
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Springs Creek Channel Improvements, City of Laramie, Albany Co.

ARCHITECT OR ENGINEER: Ed Nowak, Banner Associates
P.O. Box 550, Laramie, WY 82070

APPLICANT: G.P. McConnaughey, City of Laramie
City Hall, P.O. Box C, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 82-267

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

DATE OF REVIEW: May 27, 1982

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Sheet 14/27. Sluice gate valves for inverted siphon should have extended operators to allow opening/closing without a man having to enter bottom of manhole.
2. Sheet 14/27. Please provide design calculations for inverted siphone design. Usually, the two invert siphon pipes are different sizes to allow complete operation, and a minimum velocity of 3 fps, under all conditions of flow.
3. Relocation of public water supply lines would constitute a modification action, and a Permit to Construct from this Division will be required prior to initiation of Spring Creek Channel Improvements.
4. You should also be aware that the Laramie River has a maximum 10 NTU standard which cannot be exceeded during this work. Periodic samples may be collected by this Division during this proposed construction work.
5. Where will the excavated creek material be disposed?

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.

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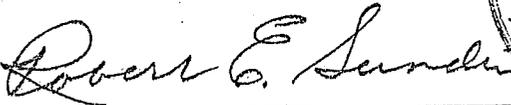
AUTHORIZED BY:


WILLIAM L. GARLAND
1479
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

Administrator
Water Quality Division

July 6, 1982

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.

AJB:ch



Department of Environmental Quality

Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 29, 1982

Aposhian, Denney, & Snideman
1444 E. 3300 S.
Salt Lake City, Ut 84107

Re: Southridge Park Offsite, Permit #82-268

Dear Mr. Aposhian:

The permit for the referenced project has been drafted and forwarded to Cheyenne for signature. In a couple of weeks the signed copies will be forwarded to you.

Respectfully,

A handwritten signature in cursive script that reads "Albert J. Berreth".

Albert J. Berreth
Area III Supervisor

cc: ~~W~~ Cheyenne DEQ/WQD
File (4)

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.

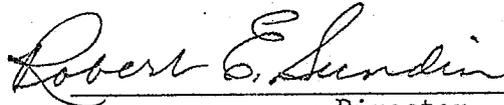
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
75 # 1479
Administrator
Water Quality Division
STATE OF WYOMING

June 22, 1982
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.

AB:tc

6-24-82

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-270

Motzkus Car Wash
(Name of Facility)

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

Dale Motzkus
Box 165
Bedford, WY 83112

to construct, install, or modify a _____

settling tank - leach field

_____ facility according to the procedures and conditions of the

application No. 82-270. The facility is located in _____

Sec. 11, T34N, R119W

_____ 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

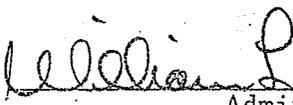
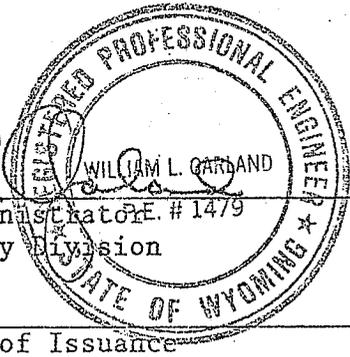
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

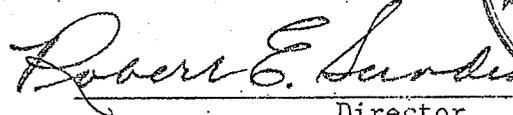
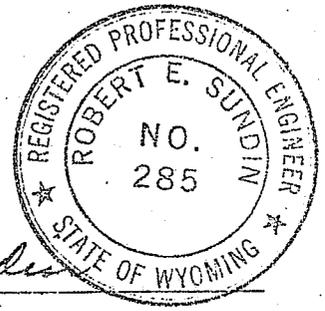
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AUTHORIZED BY:


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



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


June 22, 1982
Date of Issuance

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

FL:ch

Norma's Copy



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: A. J. Mancini
FROM: Phil Pucel *PP*
DATE: June 3, 1982
SUBJECT: Dale Motzkus Car Wash, Septic Tanks and Leach Field, DEQ/WQD Ref. No. 82-270

The types of wastes (salts, waxes, oil and grease, degreaser, phosphates) expected to enter this wastewater system may warrant pre-treatment prior to injection to the septic system. The high groundwater table is a matter of concern and needs to be protected by an adequate treatment system. Since there is no reliable data on groundwater levels, nor on neighboring wells, it is assumed that groundwater may inundate the leach field and present potential groundwater contamination and well contamination. This idea is substantiated by the included calculations which show possible 1' to 3' mounding beneath the leach field. It is noted that several assumptions are made due to lack of information on depth to bedrock, permeability, homogeneity and isotropy.

The following points require clarification:

1. Well locations and completion details within a 1/4-mile radius of the proposed leach field.
2. Groundwater level data. What data is available from nearby wells? At what depth has mottling in the soil been observed?
3. What additives, detergents, surfactants, and waxes will be used?
4. Will the water and wax solutions cool and congeal before entering the leach field? Is the design retention time adequate for cooling the wastewater?
5. Realizing that there are no controls over chemicals/degreasers, an initial four-foot barrier between the leach field and groundwater is minimal. The adequacy of this system in protecting groundwater should be demonstrated, particularly in light of mounding which would eliminate the unsaturated zone beneath the leach field.
6. What is the quality of the shallow groundwater?

7. According to the soils description submitted with the application, the soil, which surrounds the outside edges of the triangle, is a poorly-drained soil, usually having a high water table in the late summer and fall. This information again limits the applicability of the mounding estimates which assume an aquifer of infinite areal extent. The surrounding poorly-drained soil would enhance mounding on a seasonal basis.

Dale Metzger Leach field

FIND:

MOUNDING FOR A RANGE OF VALUES

GIVEN:

Gravel has been filled in from 2-5 ft deep.

Natural soils consist of gravelly loam.

Use a range of values for K : $3 \times 10^{-4} \text{ ft/s}$ to 0.3 ft/s

Use a range of values for S_y 0.01 - 0.3

The leach field is 40' x 40'

Flow: 3200 gpd

Thickness of gravelly loam is unknown.

Use range of values 10' to 30'

Solution:

$$w = \frac{3200 \text{ gpd}}{7.48 \frac{\text{gal}}{\text{ft}^3} \times 40 \text{ ft} \times 40 \text{ ft}} = 0.27 \text{ ft/day}$$

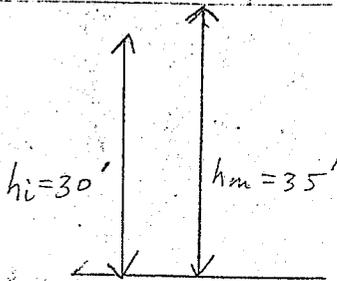
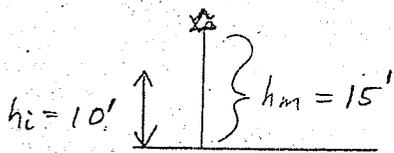
$$D = \frac{K \bar{b}}{E}$$

$$\bar{b} = 0.5(h_i + h_m)$$

$$h_m^2 - h_i^2 = \left(\frac{2w}{K} \right) D + S \left* \left(\frac{L}{\sqrt{4Dt}} \right) \left(\frac{a}{\sqrt{4Dt}} \right) \right*$$

Assume loading period, $t = 365$ days

To begin iteration, assume $h_m = 15'$ Case I



Case I $K = 3 \times 10^{-4} \text{ ft/d}$, $S_y = 0.3$

24 ft/day

$$b = 0.5 (10' + 15') = 12.5'$$

$$D = \frac{(26 \frac{\text{ft}}{\text{day}})(12.5 \text{ ft})}{0.3}$$

0.3

$$D = 1,083 \text{ ft}^2/\text{day}$$

$$h_m^2 = (10')^2 + \left[\frac{(2)(0.27 \text{ ft/day})}{26 \text{ ft/day}} \right] \frac{1,083 \text{ ft}^2}{\text{day}} \times 365 \text{ days} S \times \left(\frac{20'}{\sqrt{4(1083)(365)}} \right)$$

$$h_m^2 = 100 + 8301 \times S \times \left(\frac{0.016}{0.032}, 0.016 \right)$$

$$h_m^2 = 100 + 8301 \times 0.004$$

$$h_m = 110.5'$$

Reiterate Case I

$$h_m = 10.8'$$

$$\bar{h} = 0.5(h_s + h_m) = 0.5(10' + 11.5') = 10.8'$$

$$D = \frac{26 \times 10.8}{0.30}$$

$$0.30$$

$$D = 932 \text{ ft}^2/\text{day}$$

$$h_m^2 = (10')^2 + \left[\frac{2 \times .27 \text{ ft/day}}{26 \text{ ft/day}} \right] 932 \text{ ft}^2/\text{day} \times 365 \text{ days } S^*$$

$$\left(\frac{20}{\sqrt{4(932)(365)}}, \frac{20}{\sqrt{}} \right)$$

$$h_m^2 = 100' + [.021] \times 932 \times 365 \times S^* \left[.017 \right]$$

= .004

$$h_m^2 = 100 + 28.6$$

$$h_m = 11.33$$

Case II

$$\bar{b} = 0.5(10' + 11') = 10.5'$$

$$D = \frac{26 \times 10.5}{0.15} = 1820 \text{ ft}^2/\text{day}$$

$$h_m^2 = 10^2 + \left[\frac{2 \times 2.7 \text{ ft/day}}{26 \text{ ft/day}} \right] \times 1820 \times 365 \text{ days} \times 5 \times \left(\frac{20}{\sqrt{4(1820)(365)}} \right)^2$$

.0041

$$h_m = 112.5 \text{ ft}$$

Reiterate

$$\bar{b} = 0.5(10 + 12.5) = 11.25'$$

$$D = \frac{26 \times 11.25}{0.15} = 1950$$

$$h_m^2 = 10^2 + \left[\frac{2 \times 2.7}{26} \right] \times 1950 \times 365 \times 5 \times \left(\frac{20}{\sqrt{4(1950)(365)}} \right)^2$$

.0041

$$h_m = 12.7 \text{ ft}$$

$$\text{mound} = 2.7 \text{ ft}$$

Case III Let $h_m = 11'$, $K = 3 \times 10^{-2} \text{ ft/day}$

$$\bar{b} = 0.5(h_i + h_m) = 10.5'$$

$$U = \frac{2600 \times 10.5}{0.15} = 182,000 \text{ ft}^2/\text{day}$$

$$h_m^2 = (10)^2 + \left[\frac{2 \times .27}{2600} \right] \times 182,000 \times 365 \times S + \left(\frac{20}{\sqrt{4(182,000)(365)}} \right)^{.0041}$$

$$h_m = 12.5'$$

Reiterate

$$\bar{b} = 0.5(10 + 12.5) = 11.25'$$

$$U = \frac{2600 \times 11.25}{0.15} = 195,000 \text{ ft}^2/\text{day}$$

$$h_m^2 = (10)^2 + \left[\frac{2 \times .27}{2600} \right] \times 195,000 \times 365 \times S + ()$$

$$h_m = 12.7'$$

MOUNDING CALCULATIONS (1)
MOTZKUS LEACH FIELD

Case I

$$K = 3 \times 10^{-4} \text{ ft/s}$$

$$S_y = 0.3$$

$$Q = 3200 \text{ gpd}$$

$$h_i = 10'$$

$$h_m = 11'$$

$$\text{mound} = 1'$$

Case II

$$K = 3 \times 10^{-4} \text{ ft/s}$$

$$Q = 3200 \text{ gpd}$$

$$S_y = 0.15$$

$$h_i = 10'$$

$$h_m = 12.7 \text{ ft}$$

$$\text{mound} = 2.7 \text{ ft}$$

Case III for the gravel

$$K = 3 \times 10^{-2} \text{ ft/s}$$

$$Q = 3200 \text{ gpd}$$

$$S_y = 0.15$$

$$h_i = 10'$$

$$h_m = 12.6'$$

$$\text{mound} = 2.6'$$

Case IV

$$K = 3 \times 10^{-2} \text{ ft/s}$$

$$S_y = 0.15$$

$$h_i = 30'$$

$$h_m = 32.7$$

$$\text{mound} = 2.7 \text{ ft.}$$

Case II let $h_m = 33'$

$$\bar{b} = 0.5(30' + 33') = 31.5'$$

$$D = \frac{2600 \times 31.5}{0.15} = 546,000$$

$$h_m^2 = (30)^2 + \left[\frac{2 \times 27}{2600} \right] \times 546,000 \times 365 \times 5 \quad ($$

$$h_m = 32.7 \text{ ft}$$

Iterate

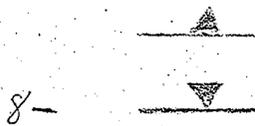
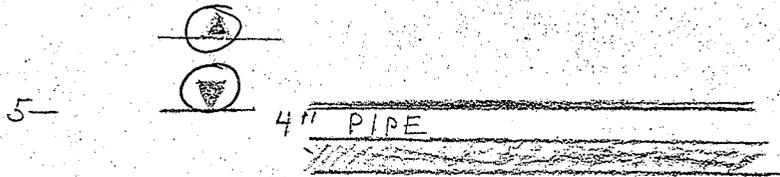
$$\bar{b} = 31.35 \quad D = 543,400$$

$$h_m = 32.7 \text{ ft}$$

$$\text{mound} = 2.7 \text{ ft}$$

CASE I

0 Ground Surface



8-

△ MOUNDING LEVEL

▽ INITIAL STATIC WATER LEVEL

- $K = 3 \times 10^{-4}$ ft/s hydraulic conductivity
- $S_y = 0.3$ specific yield
- $h_i = 10'$ thickness of shallow aquifer
- $h_m = 11'$ height of mound above bedrock

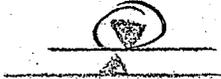
Dale Motzkus DISPOSAL FIELD

CASE II and IV

0- GROUND SURFACE



5-



8-



Case II

$$k = 3 \times 10^{-4} \text{ ft/d}$$

$$s_y = 0.15$$

$$h_i = 10'$$

$$h_m = 12.7'$$

Case IV

$$k = 3 \times 10^{-2} \text{ ft/d}$$

$$s_y = 0.15$$

$$h_i = 30'$$

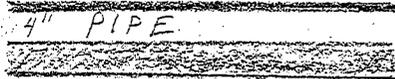
$$h_m = 32.7'$$

CASE III

0- GROUND SURFACE



5-



8-



$$k = 3 \times 10^{-2} \text{ ft/d}$$

$$s_y = 0.15$$

$$h_i = 10'$$

$$h_m = 12.6'$$



Norma-

AS-Built 82-271

Department of Environmental Quality

Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING, 82801

TELEPHONE 307-672-6457

June 21, 1982

Mr. Jim Kandolin, Director
Compliance and Environmental Affairs
NERCO, Inc.
P.O. Box 4000
Sheridan, Wyoming 82801

Dear Mr. Kandolin:

I have reviewed the sizing calculations and as-built plans which NERCO submitted for Sediment Runoff Facility SP-23a at Glenrock Coal Company's Dave Johnston Mine (WQD reference number 82-271).

The facility appears to have been constructed in accordance with the applicable requirements of the Water Quality Division, and you may consider it approved. Please note that this approval does not relieve the Glenrock Coal Company for any legal liability resulting from construction of the facility without a Permit to Construct.

If you have any questions on this, please let me know.

Yours truly,

Tom Mueller

Tom Mueller
District Supervisor

TM:ls

xc: Jake Strohman

Groundwater Section
Permit Application Review

Returned
6-2-82

Application Number 82-271

Date submitted for review May 28 1982

Name and location of facility Dave Johnson - SP 23a
Sec 16 T 36 N R 75 W
Converse Co.

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 Lennix

Title Eng Eval

Date June 1 1982

Review Approved X

Not Approved _____

6/1/82
(Date)

AJ Mancini
(Signed)

Groundwater Control Supervisor

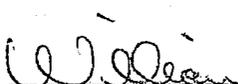
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

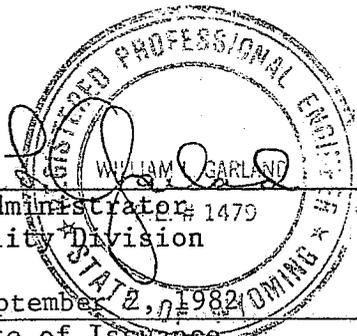
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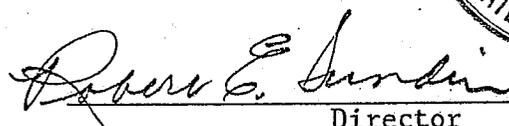
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AUTHORIZED BY:

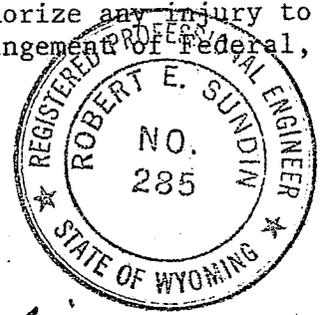


Administrator # 1479
Water Quality Division
September 2, 1982
Date of Issuance





Director
Dept. of Environmental Quality



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

CONDITION

The only portions of the water and sewer systems to be constructed at this time are those necessary to serve the thirty (30) lots of Plat No. 1, and along the access of Beuna Vista Drive.

xc: Jimmy Hilton
RR 4, Woodrun Lane No. 3C
Rapid City, SD 57701

Campbell County Engineer's Office
500 South Gillette Avenue
Gillette, WY 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: Sunrise Subdivision

ARCHITECT OR ENGINEER: Jimmy Hilton
R.R. 4, Woodrun Lane No. 3C
Rapid City, South Dakota 57701

WATER QUALITY DIVISION
REFERENCE NUMBER: 82-272RRR

REVIEWING ENGINEER: Tom Mueller *TJM*

DATE OF REVIEW: August 9, 1982

ACTION: Not Authorized for Construction. See Comments.

COMMENTS:

All items in previous plan reviews for this project have been adequately addressed. All that remains to be done to allow approval of construction is completion of those items noted in Review of Plans and Specifications, Reference No. 82-407, also dated August 9, 1982, for Improvements to the Rawhide Village water supply system. At such time as those items have been addressed, a Permit to Construct for this project will be issued.

xc: Campbell County Engineer's Office

NORMA

82-272



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING .82801

TELEPHONE 307-672-6457

May 26, 1982



Mr. Jimmy Hilton
Rural Route 4
Woodrun Lane No. 3C
Rapid City, South Dakota 57701

Dear Mr. Hilton:

This office has received the plans for the sewer and water systems for the Sunrise Subdivision in Campbell County. It will be necessary for you to file an application for a Permit to Construct (forms enclosed). Normally we require the professional engineer's signature on the plans; however, your signature on the application form will suffice.

Sincerely,

Lea Stoneburner

Lea Stoneburner
Administrative Assistant

ls

Enclosures

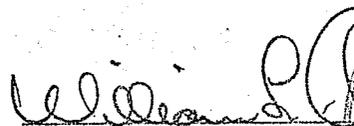
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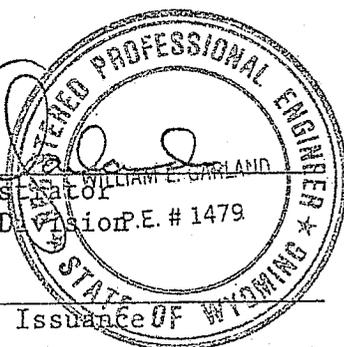
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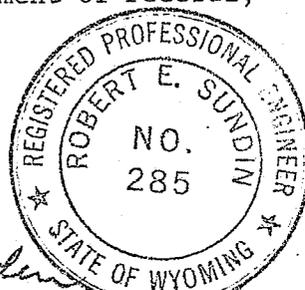
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AUTHORIZED BY:


Adminisrator
Water Quality Division P.E. # 1479
June 22, 1982
Date of Issuance




Director
Dept. of Environmental Quality



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

MRC:ch



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 15, 1983

Cindy Bartlett, Mayor
Town of Bairoil
P. O. Box 58
Bairoil, WY 82322

RE: Lost Soldier Addition-Town of Bairoil
DEQ/WQD No. 82-274RR

Dear Ms. Bartlett:

As per my tele-con with Paul McCarthy (Robert Jack Smith and Assoc. Inc.-Rawlins) on June 15, 1983, it is my understanding that at this time funding is not available for the above mentioned project. Mr. McCarthy instructed me to withdraw the Application for "Permit to Construct" No. 82-274RR. Please retain this letter as verification that the Department of Environmental Quality/Water Quality Division has cancelled Application No. 82-274RR.

If you have any questions, please contact me.

Sincerely,


Jack Bedessem

JB:crb

cc: Cheyenne DEQ/WQD ✓
Paul McCarthy-Robert Jack Smith & Assoc. Inc.
File

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Lost Soldier Addition and Sagebrush Addition

ENGINEER: Rex Behrends
Robert Jack Smith & Associates
P.O. Box 1104
Rawlins, WY 82301

OWNER: Mayor Andy Lou Bartlett
Town of Bairoil
Box 58
Bairoil, WY 82322

WATER QUALITY DIVISION REFERENCE NUMBER: 82-274RR, 82-289RR

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: July 9, 1982

ACTION: Not authorized.

COMMENTS: A review of your reply to my June 4, 1982 review letter and June 24, 1982 phone review has been completed. Before a "Permit to Construct" can be authorized the following points remain to be resolved:

Lost Soldier Addition: #82-274RR

Water System

1. The design calculations only address static water pressure. Minimum dynamic pressure was not calculated. I did a hardy cross analysis of the loop and it appears that the minimum required pressure of 20 psi can be met if sufficient volumes of water are available. Verification is required that the required volumes of water are available. A fire hydrant flow test would provide the necessary information.

2. Since the Town of Bairoil request for funds to do a complete water system analysis was denied we will need a letter from the town verifying they can adequately supply the required volumes of water at a minimum pressure of 20 psi under all conditions of flow.

3. resolved

Ac

Lost Soldier Addition
Sagebrush Addition
July 9, 1982
Page 2

Sewer System

4. resolved
5. resolved
6. A letter is required from the Town of Bairoil stating the town system is capable of handling and treating the added organic and hydraulic loads to be imposed on the existing sewage collection and treatment systems.

Sagebrush Addition: #82-289RR

Water System

1. The design calculations only address static water pressure. Minimum dynamic pressure was not calculated. My rough calculations indicate that the minimum required pressure of 20 psi cannot be met under fire flow conditions. A fire hydrant flow test should be made to determine if indeed the minimum pressure can't be met. If it can't the system should be redesigned (i.e. pick up another existing main if possible or add a booster pump). Please provide all of the system calculations.
2. Since the Town of Bairoil request for funds to do a complete water system analysis was denied we will need a letter from the town verifying they can adequately supply the required volumes of water at a minimum pressure of 20 psi under all conditions of flow.
3. resolved

Sewer System

4. resolved
5. A letter is required from the Town of Bairoil stating the town system is capable of handling and treating the added organic and hydraulic loads to be imposed on the existing sewage collection and treatment systems.

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

FL:dp

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 Lincoln
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: LOST SOLDIER ADDITION and SAGEBRUSH ADDITION

ENGINEER: Rex Behrends
Robert Jack Smith & Assoc.
PO Box 1104
Rawlins, WY 82301

OWNER: Mayor Cindy Lou Bartlett
Town of Bairoil
Box 58
Bairoil, WY 82322

WATER QUALITY DIVISION REFERENCE NUMBER: 82-274, 82-289

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

DATE OF REVIEW: June 4, 1982

ACTION: Not authorized.

COMMENTS: A review of the two applications has been completed. Before a "Permit to Construct" can be authorized, the following points need to be resolved.

LOST SOLDIER ADDITION: #82-274

Water System

1. Design calculations are needed to support the water system design. What is the anticipated maximum and minimum pressures in the proposed water mains?
2. A letter is required from the Town of Bairoil verifying that the Town can adequately supply the required volumes of water at a minimum pressure of 20 psi under all conditions of flow.
3. Will there be any mobile homes in the addition? If so, a water riser specification and detail is required and the plans on specs should note that a minimum horizontal separation distance of five (5) feet will be maintained between the water and sewer risers

ABC

Sewer System

4. A clean out detail is needed.
5. A sewer riser detail is needed if applicable.
6. A letter is required from the Town of Bairoil stating the Town system is capable of handling and treating the added organic and/or hydraulic loads to be imposed on the existing sewage collection and treatment systems.

SAGEBRUSH ADDITION: #82-289

Water System

1. Design calculations are needed to support the water system design. What is the anticipated maximum and minimum pressures in the proposed water mains?
2. A letter is required from the Town of Bairoil verifying that the Town can adequately supply the required volumes of water at a minimum pressure of 20 psi under all conditions of flow.
3. A water riser specification and detail is required and the plans or specs should note that a minimum horizontal separation distance of five (5) feet will be maintained between the water and sewer risers.

Sewer System

4. A sewer riser detail is needed if applicable.
5. A letter is required from the Town of Bairoil stating the Town system is capable of handling and treating the added organic and/or hydraulic loads to be imposed on the existing sewage collection and treatment systems.

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

FL:ch

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-275R
SEE SPECIAL CONDITION

H, S & D Services
(Name of Facility)

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

H, S & D Services
1200 Uinta Street
Evanston, WY 82930

to construct, install, or modify a septic tank - drainfield facility according to the procedures and conditions of the application No. 82-275R. The facility is located in Section 1, T14N, R121W 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 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 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:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
July 28, 1982
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.

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 City of Evanston Step 1 Wastewater Facility 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 Facility Plan.



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 17, 1982

Mr. Preston D. Simpkins
H S & D
1200 Uinta
Evanston, WY 82930

RE: Application for Septic Tank and Drainfield, #82-275

Dear Mr. Simpkins:

Before your application can be considered for review the following items need to be addressed.

1. Your facility is by definition a large wastewater facility. This means your plans must carry the seal of a Wyoming registered professional engineer.
2. Complete information needs to be supplied. A quick review of your application revealed the absence of percolation tests.
3. Your system appears to be within the Evanston planning area. This means you must connect to City sewer if and/or when available. The City will also need to consent to any septic tank and drainfield you wish to install.

Should you have questions on the above, please feel free to contact me.

Respectfully,

Albert J. Berreth

Albert J. Berreth
Area III Supervisor

AJB:ch

cc: Cheyenne DEQ/WQD
Wayne Shepherd
File (4)

AC

6-28-82

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 82-276

Pinedale Airport Septic System
(Name of Facility)

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

Pinedale Airport Board

Box 546

Pinedale, WY 82941

to construct, install, or modify a _____

septic tank - leach field

_____ facility according to the procedures and conditions of the

application No. 82-276. The facility is located in _____

Sec. 25, T33N, R109W

_____ in the County of Sublette,

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

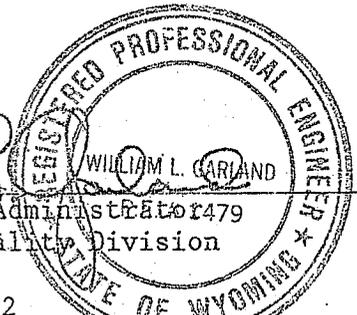
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

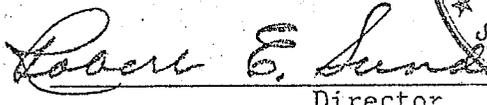
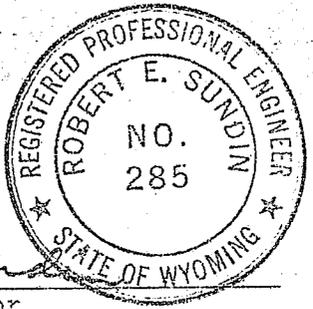
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction 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. CARLAND
Administrator 479
Water Quality Division
June 22, 1982
Date of Issuance



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

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

FL:ch

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-277RR
SEE SPECIAL CONDITION

Quanex/Oil Country Division
(Name of Facility)

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

City of Cheyenne

2101 O'Neil

Cheyenne, WY 82001

to construct, install, or modify a potable water service and sewage collection facility according to the procedures and conditions of the application No. 82-277RR. The facility is located in Section 2, T13N, 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.

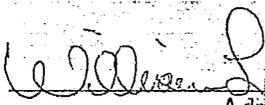
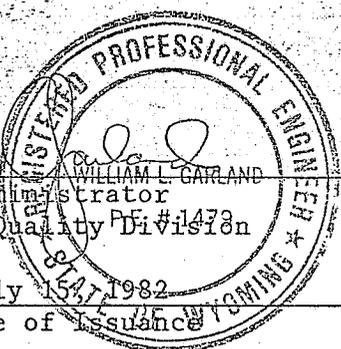
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

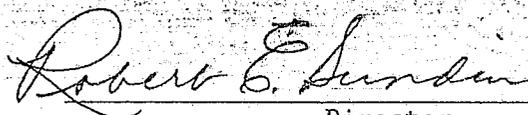
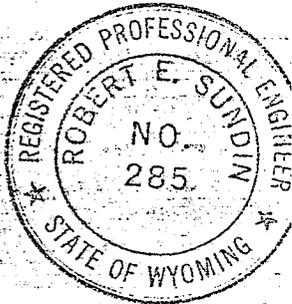
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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


WILLIAM L. GARLAND
Administrator
Water Quality Division #1478n
July 15, 1982
Date of Issuance



Director
Dept. of Environmental Quality


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

cc: Joseph E. Kub
BRW, Inc.
1912 Capitol Ave., Suite 300
Cheyenne, WY 82001

Condition to Permit to Construct

This raw sewage lift station does not comply with the Department of Environmental Quality, Water Quality Division's minimum design standards. The owner of this facility assumes full operational responsibility for this system.

6-7-82

Review of Plans and Specifications

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

PROJECT: Quanex/Oil Country Division

ARCHITECT OR ENGINEER: Joseph E. Kub, BRW, Inc.
1912 Capital Ave., Suite 300, Cheyenne, WY 82001

APPLICANT: City of Cheyenne
2101 O'Neil, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 82-277

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



DATE OF REVIEW: June 4, 1982

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Profiles of the sanitary sewers are needed.
2. Details of the raw sewage lift station must be shown.
3. How will cutting oils be disposed?

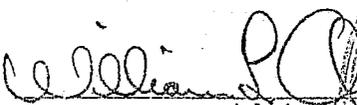
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

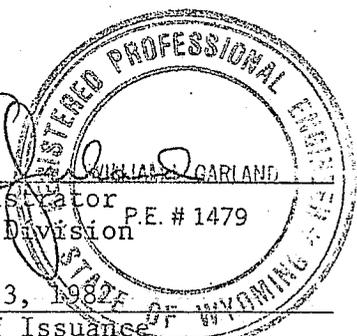
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction 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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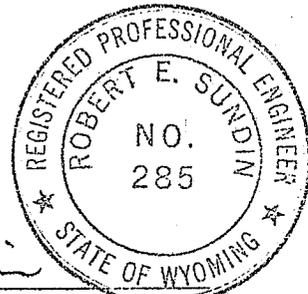
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM GARLAND
Administrator P.E. # 1479
Water Quality Division
June 23, 1982
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.

xc: Converse County Courthouse
107 N. 5th
Douglas, WY 82633

Water Quality Division
Groundwater Section
Permit Application Review

Norma
Ref to
6-11-82

Application Number 82-278

Date submitted for review 6-4-82

Name and location of facility ANTWERP COAL COMPANY
Sec 35 T 41N R 71W
Converse County

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.

rounding calc. not appropriate

Signed *Richard Lunn*
Title *Eng Eval*
Date *6-10-82*

Review Approved X
6/10/82
(Date)

Not Approved _____
AJ Mancini
(Signed)
Groundwater Control Supervisor

6-7-82

PERMIT TO CONSTRUCT

New

Permit No. 82-279

Renewal

Modified

Garden Creek Village
(Name of Facility)

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

Casper Board of Public Utilities

200 N. David

Casper, WY 82601

to construct, install, or modify a municipal water extension and sewer collection facility according to the procedures and conditions of the application No. 82-279.

The facility is located in Coffman Court, Sunrise Hills Addition 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.

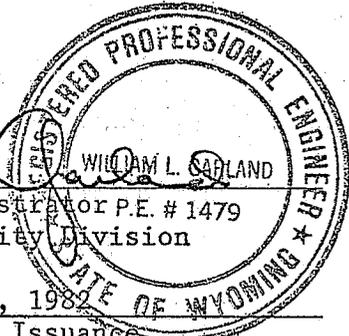
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

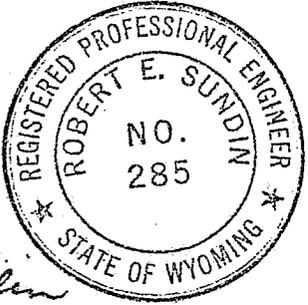
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction 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:


William L. Sadland
WILLIAM L. SADLAND
Administrator P.E. # 1479
Water Quality Division
June 3, 1982
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: Charles K. Wolz
Wolz & Associates
933 W. 14th Street, Suite 1
Casper, WY 82601

6-17-82

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 82-280

Highland Park Relief Sewer, S81-1, Section 2
(Name of Facility)

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

Casper Board of Public Utilities

200 North David

Casper, WY 82601

to construct, install, or modify a 12-inch sanitary sewer facility according to the procedures and conditions of the application No. 82-280. The facility is located in Section 10, 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.

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.

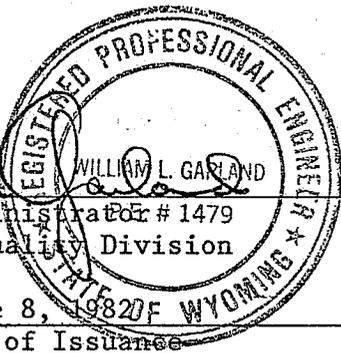
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

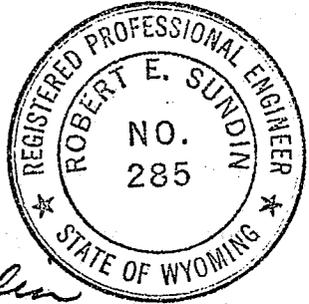
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

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AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
June 8, 1982
Date of Issuance


Robert E. Sunden
Director
Dept. of Environmental Quality

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

cc: David W. Hill
Casper BPU
200 N. David
Casper, WY 82601

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-281

Surrey Ridge
(Name of Facility)

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

Casper Board of Public Utilities

200 North David

Casper, WY 82601

to construct, install, or modify a municipal water and sewer main extension facility according to the procedures and conditions of the application No. 82-281. The facility is located in Surrey Court, Block 14, Eastgate II Subdivision 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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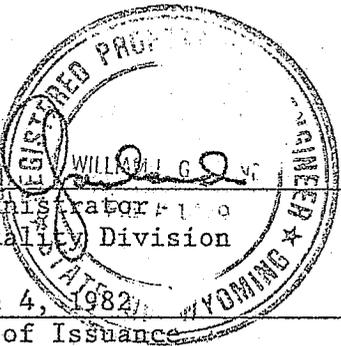
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction 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.

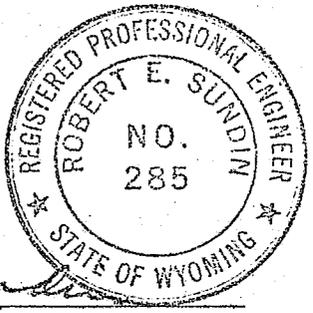
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AUTHORIZED BY:

Administrator
Water Quality Division
June 4, 1982
Date of Issuance



Director
Dept. of Environmental Quality



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

cc: Charles K. Wolz
Wolz and Associates
933 W. 14th St., Suite 1
Casper, WY 82601



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 18, 1982

POWDOS Partnership
PO Box 81
Evanston, WY 82930

RE: Curtis Way Sanitary Sewer, 82-282

Gentlemen:

Your submittal on the above referenced project has been reviewed and is being authorized. Since these are as-builts, a formal permit cannot be issued. This letter, then, should be filed as your record of authorization.

A condition of this authorization is that the pond that served Billy's be reclaimed as soon as possible. I will be checking this next time I am in Evanston.

Please contact me should you have questions or need additional information.

Respectfully,

A handwritten signature in cursive script that reads "Albert J. Berreth".

Albert J. Berreth
Area III Supervisor

AJB:ch

cc: Doug Peterson
Uinta Eng.
Cheyenne DEQ/WQD
File (4)

6-28-82

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 82-283

8" Main Extension for Denny's Restaurant
(Name of Facility)

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

Pacific Power & Light Co.

920 S.W. Sixth Ave.

Portland, OR 97204

to construct, install, or modify a 8 inch water main and appartenances

~~facilities~~ according to the procedures and conditions of the
application No. 82-283. The facility is located in _____

Sec. 33, T19N, R105W

_____ in the County of Sweetwater,

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.

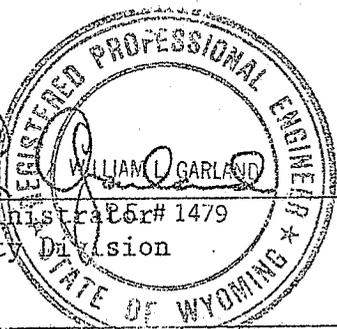
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction 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.

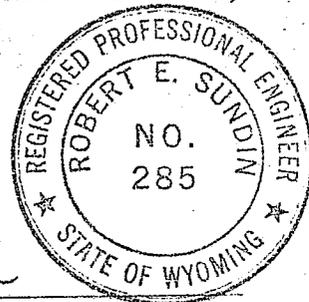
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
June 22, 1982
Date of Issuance




Director
Dept. of Environmental Quality



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

EL:ch

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-284

MAIN EXTENSION TO LOTS 1 AND 2 GATEWAY COMPLEX
(Name of Facility)

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

Pacific Power & Light Co.
920 S.W. Sixth Ave.
Portland, Oregon 97204

to construct, install, or modify a 12 inch water main and appurtenances

_____ facility according to the procedures and conditions of the
application No. 82-284. The facility is located in _____

Sec. 34, T19N, R105W

_____ in the County of Sweetwater,

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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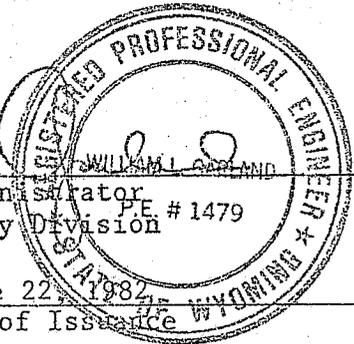
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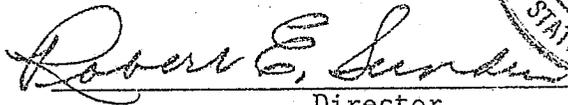
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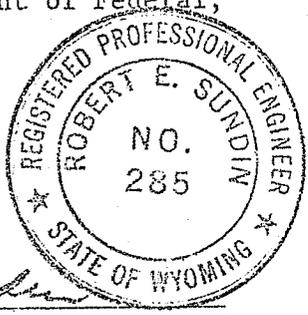
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AUTHORIZED BY:



Administrator
Water Quality Division
P.E. # 1479
June 22, 1982
Date of Issuance




Director
Dept. of Environmental Quality


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

FL:dp

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.

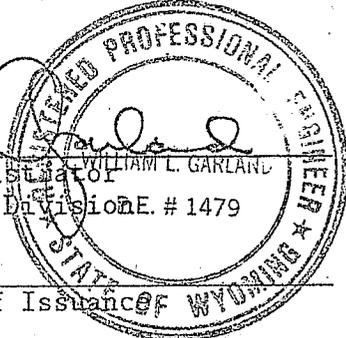
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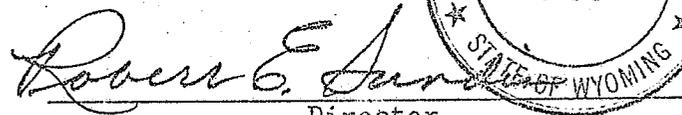
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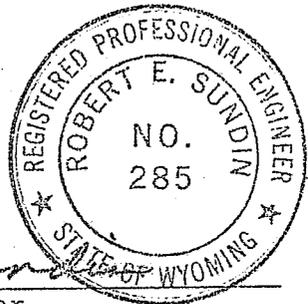
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AUTHORIZED BY:


Administator
Water Quality Division E. # 1479
June 22, 1982
Date of Issuance




Director
Dept. of Environmental Quality



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

****CONDITION OF PERMIT****

This permit is issued with the condition that the temporary on-site facilities, authorized by this permit, are to be abandoned when a public sewage collection line serving the Kemmerer Area Regional Wastewater Treatment Plant becomes available. Connection to the public sewage collection line must be made at that time.

FL:ch



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 25, 1982

Bill Kucharski
PP&L
920 S.W. Sixth Ave.
Portland, OR 97204

RE: Irrigation Line, #82-286

Dear Mr. Kucharski:

The referenced irrigation line was recommended for authorization on June 22, 1982. A permit will be forthcoming and should be mailed to you in early July.

Respectfully,

Albert J. Berreth
Albert J. Berreth
Area III Supervisor

AJB:ch

cc: Cheyenne, DEQ/WQD
File (2)

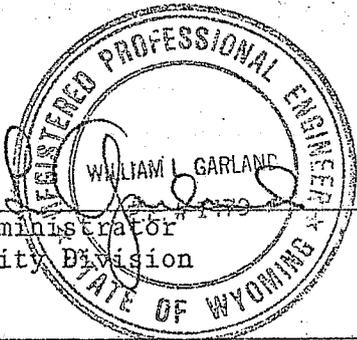
during working hours, to have access to inspect the facilities; at the above location, for the purpose of compliance with the provisions of this construction permit.

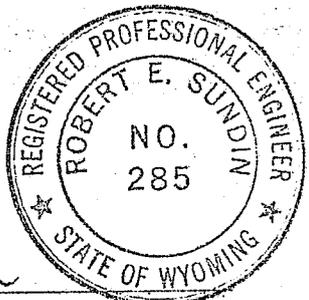
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AUTHORIZED BY:


William I. Garland
Administrator
Water Quality Division
June 22, 1982
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 OF PERMIT****

1. Complete as built drawings are required upon completion.
2. A new monitoring well is required downgradient between the two pivots to the seasonal low groundwater depth of the shallowest aquifer.
3. Groundwater quality analysis consisting of parameters acceptable to DEQ/WQD shall be performed at intervals acceptable to DEQ/WQD.
4. Upon completion of the project, an estimate of the depth of percolation in relation to the total annual application of pond water and hydraulic conductivity of the profile shall be provided.
5. Upon completion of the project, a site management plan must be provided. This plan shall provide for spring-fall groundwater sampling to the satisfaction of DEQ/WQD.

AJB:ch

1/31/83

Norma,

Here are copies of the application and information supplied for 82-287 and 82-288, for archives. I met with Lee Christensen, one of the owners, on 1/31/83 and returned the application. He will resupply in the future if necessary.

Jeff Hermansky

ED HERSCHLER
GOVERNOR

Park Co.

Environmental Quality

by Division

Big Valley Subdiv.
Crossed Arrows Park

MING 82520

TELEPHONE 307-332-3144

October 27, 1982

82-287, 82-288

of your application to construct a sub-
ion system for Crossed Arrows Park and

on June 21, 1982 to discuss these applications and to look at the proposed project site. At this time, I informed Mr. Christiansen that the applications would require additional information for evaluation.

Do you still wish to proceed with securing a Permit? If so, please have your engineer contact me so we can discuss the requirements for completing the application.

If you do not wish to proceed with the project, please send me a letter with a request to withdraw your application.

Thank you for your cooperation.

Respectfully,

Jeff C. Hermansky
Jeff C. Hermansky
Water Quality Evaluator
Northwest District

JCH:ch

cc: DEQ/WQD Cheyenne-Jake Strohmman
File (2)

called 12/7/82 - No answer
called 12/7/82 - is still planning on building project, will
meet with us after 1st of year.
1/31/83 - Met w/ Lee Christensen and returned plans. He
will resubmit plans as necessary.



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

October 27, 1982

Vision Quest Estates, Inc.
PO Box 4
Meeteetse, WY 82433

RE: 82-287, 82-288

Dear Sir:

This letter is sent to request the status of your application to construct a sub-surface disposal system and water distribution system for Crossed Arrows Park and Big Valley Subdivision.

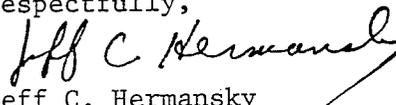
I met with Lee Christiansen on June 21, 1982 to discuss these applications and to look at the proposed project site. At this time, I informed Mr. Christiansen that the applications would require additional information for evaluation.

Do you still wish to proceed with securing a Permit? If so, please have your engineer contact me so we can discuss the requirements for completing the application.

If you do not wish to proceed with the project, please send me a letter with a request to withdraw your application.

Thank you for your cooperation.

Respectfully,


Jeff C. Hermansky
Water Quality Evaluator
Northwest District

JCH:ch

cc: DEQ/WQD Cheyenne-Jake Strohman
File (2)

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN STREET
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Lost Soldier Addition and Sagebrush Addition

ENGINEER: Rex Behrends
Robert Jack Smith & Associates
P.O. Box 1104
Rawlins, WY 82301

OWNER: Mayor Andy Lou Bartlett
Town of Bairoil
Box 58
Bairoil, WY 82322

WATER QUALITY DIVISION REFERENCE NUMBER: 82-274RR, 82-289RR

REVIEWING ENGINEER: Francis LaBarge

DATE OF REVIEW: July 9, 1982

ACTION: Not authorized.

COMMENTS: A review of your reply to my June 4, 1982 review letter and June 24, 1982 phone review has been completed. Before a "Permit to Construct" can be authorized the following points remain to be resolved:

Lost Soldier Addition: #82-274RR

Water System

1. The design calculations only address static water pressure. Minimum dynamic pressure was not calculated. I did a hardy cross analysis of the loop and it appears that the minimum required pressure of 20 psi can be met if sufficient volumes of water are available. Verification is required that the required volumes of water are available. A fire hydrant flow test would provide the necessary information.
2. Since the Town of Bairoil request for funds to do a complete water system analysis was denied we will need a letter from the town verifying they can adequately supply the required volumes of water at a minimum pressure of 20 psi under all conditions of flow.
3. resolved

AC

Lost Soldier Addition
Sagebrush Addition
July 9, 1982
Page 2

Sewer System

4. resolved
5. resolved
6. A letter is required from the Town of Bairoil stating the town system is capable of handling and treating the added organic and hydraulic loads to be imposed on the existing sewage collection and treatment systems.

Sagebrush Addition: #82-289RR

Water System

1. The design calculations only address static water pressure. Minimum dynamic pressure was not calculated. My rough calculations indicate that the minimum required pressure of 20 psi cannot be met under fire flow conditions. A fire hydrant flow test should be made to determine if indeed the minimum pressure can't be met. If it can't the system should be redesigned (i.e. pick up another existing main if possible or add a booster pump). Please provide all of the system calculations.

2. Since the Town of Bairoil request for funds to do a complete water system analysis was denied we will need a letter from the town verifying they can adequately supply the required volumes of water at a minimum pressure of 20 psi under all conditions of flow.

3. resolved

Sewer System

4. resolved
5. A letter is required from the Town of Bairoil stating the town system is capable of handling and treating the added organic and hydraulic loads to be imposed on the existing sewage collection and treatment systems.

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

FL:dp

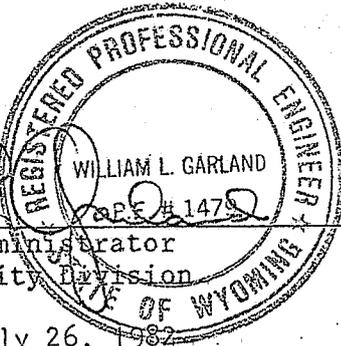
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

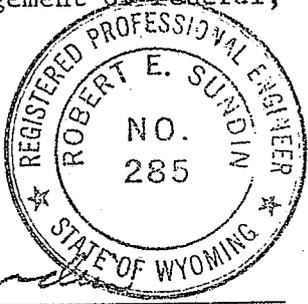
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


William L. Garland

Administrator
Water Quality Division
July 26, 1982

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.

JB:dp

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 Lincoln
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: LOST SOLDIER ADDITION and SAGEBRUSH ADDITION

ENGINEER: Rex Behrends
Robert Jack Smith & Assoc.
PO Box 1104
Rawlins, WY 82301

OWNER: Mayor Cindy Lou Bartlett
Town of Bairoil
Box 58
Bairoil, WY 82322

WATER QUALITY DIVISION REFERENCE NUMBER: 82-274, 82-289

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

DATE OF REVIEW: June 4, 1982

ACTION: Not authorized.

COMMENTS: A review of the two applications has been completed. Before a "Permit to Construct" can be authorized, the following points need to be resolved.

LOST SOLDIER ADDITION: #82-274

Water System

1. Design calculations are needed to support the water system design. What is the anticipated maximum and minimum pressures in the proposed water mains?
2. A letter is required from the Town of Bairoil verifying that the Town can adequately supply the required volumes of water at a minimum pressure of 20 psi under all conditions of flow.
3. Will there be any mobile homes in the addition? If so, a water riser specification and detail is required and the plans on specs should note that a minimum horizontal separation distance of five (5) feet will be maintained between the water and sewer risers

ABC

Sewer System

4. A clean out detail is needed.
5. A sewer riser detail is needed if applicable.
6. A letter is required from the Town of Bairoil stating the Town system is capable of handling and treating the added organic and/or hydraulic loads to be imposed on the existing sewage collection and treatment systems.

SAGEBRUSH ADDITION: #82-289

Water System

1. Design calculations are needed to support the water system design. What is the anticipated maximum and minimum pressures in the proposed water mains?
2. A letter is required from the Town of Bairoil verifying that the Town can adequately supply the required volumes of water at a minimum pressure of 20 psi under all conditions of flow.
3. A water riser specification and detail is required and the plans or specs should note that a minimum horizontal separation distance of five (5) feet will be maintained between the water and sewer risers.

Sewer System

4. A sewer riser detail is needed if applicable.
5. A letter is required from the Town of Bairoil stating the Town system is capable of handling and treating the added organic and/or hydraulic loads to be imposed on the existing sewage collection and treatment systems.

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

FL:ch

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.

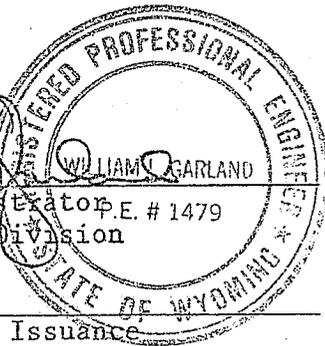
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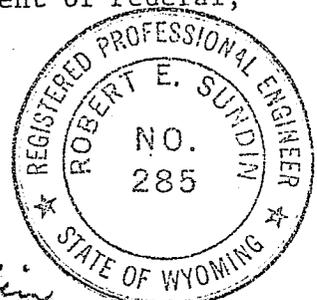
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AUTHORIZED BY:


Administator P.E. # 1479
Water Quality Division
June 22, 1982
Date of Issuance




Director
Dept. of Environmental Quality



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

FL:tc

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 Lincoln

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: WATER IMPROVEMENTS FOR BAIROIL SCHOOL

ENGINEER: Rex Behrends
Robert Jack Smith & Assoc.
PO Box 1104
Rawlins, WY 82301

OWNER: Carbon County School District #1
PO Box 160
Rawlins, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 82-290

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

DATE OF REVIEW: June 4, 1982

ACTION: Not authorized.

COMMENTS: A review of your application has been completed. Before a "Permit to Construct" can be authorized the following points need to be resolved.

1. A letter is required from the Town of Bairoil verifying that the town can adequately supply the required volumes of water at a minimum pressure of 20 psi under all conditions of flow.
2. Design calculations are needed to support the water system design. What is the anticipated maximum and minimum pressures in the proposed water system?
3. A note needs to be placed on the drawing stating the water lines will be placed on a uniform grade. If this is not the case, a water line profile is required.

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

FL:ch

cc: Mayor Cindy Lou Bartlett-Town of Bairoil

AC



THE STATE OF WYOMING

*Is this considered
Permit denied & need to
to be assigned if when it
comes in again?*

82-291R

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7731

October 20, 1982

Larry Suchor
Suchor Investments Inc.
2020 Schoonover Road
Gillette, Wyoming 82716

Dear Mr. Suchor:

This letter is in response to your application for a permit to construct Sleepy Hollow sewage lagoon and interceptor sewer. As you know, the Sleepy Hollow area is included in the service area established in the City of Gillette/Campbell County Non Metro 201 Facilities Plan. The adopted plan provides for treatment capacity in the regional plant and an interceptor to service the Sleepy Hollow area. Sleepy Hollow was included in the regional plan on the basis of a cost effective analysis and non-monetary evaluation of various treatment alternatives. The plan concluded that it is cost effective for the Sleepy Hollow area to be served in the regional area.

State and federal laws require that the Water Quality Division not issue any permit which is in conflict with an approved 201 Facility Plan. The permitting activities of the Water Quality Division in the Gillette area were discussed in a August 4, 1982, letter from the Governor to W.F. Flaherty, County Engineer. A copy of the letter is enclosed for your information. In accordance with the letter, we are requesting that you contact the City of Gillette concerning the possibility of connecting to the regional system and provide information to this office concerning the economic practicability of hooking up to the regional system. The data presently available to this office indicates that hook up is economically practicable. As the Governor pointed out in his letter the Water Quality Division can not get involved in issues other than economic practicability and compliance with the facility plan.

We will be glad to work with you concerning this matter and will make a final decision on the permit application when the necessary information is provided.

Sincerely,

William L. Garland
Administrator

WLG/LR/kb
Enclosure

cc: W.F. Flaherty, County Engineer, Alan Tandy, City Administrator, Tom Mueller, Department of Environmental Quality, Water Quality Division, Lander

Norma
Returned to
Sheidan

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 82-291

Date submitted for review 7-19-82

Name and location of facility Sleepy Hally Lagoon
Sec 5, 8 T49N R71W
Campbell Co, Wyo.

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 Lunn
Title Eng. Exec.
Date 8-6-82

Review Approved X
8/9/82
(date)

Not Approved _____
ajm
(signed)
Groundwater Control Supervisor

COMMENTS ON SLEEPY HOLLOW SUBDIVISION; 82-291

- 1) As reported by Northern Testing Laboratories, the seepage rate for a minimum 2.0 feet thick liner would be 12 cubic feet per year per square foot of bottom or a seepage rate for the lagoons of .35 in/day which would exceed water quality max allowable rate of .25 in/day. Without knowing the quality of groundwaters in the substrata below the lagoon a complete evaluation cannot be made. A synthetic liner might have to be considered.
- 2) Since the three wastewater cells are proposed for construction the existing NPDES permit to Suchor Investments Inc. (which expires January 1983) may not apply and a new permit should be applied for, there is no indication on the application or in the Cheyenne Files that this has occurred.

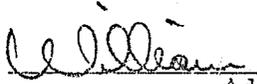
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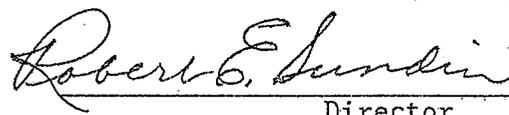
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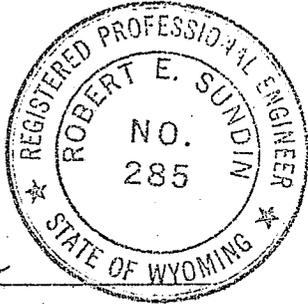
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM J. GARLAND
Administrator #1479
Water Quality Division
June 25, 1982
Date of Issuance




Director
Dept. of Environmental Quality



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

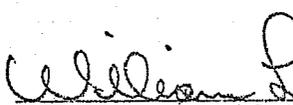
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

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AUTHORIZED BY:



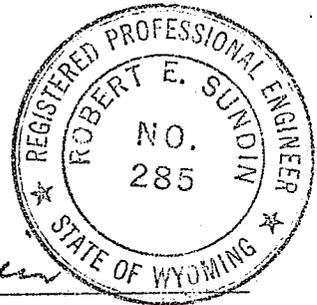
WILLIAM L. GARLAND
Administrator
Water Quality Division # 1479
June 22, 1982

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:ch

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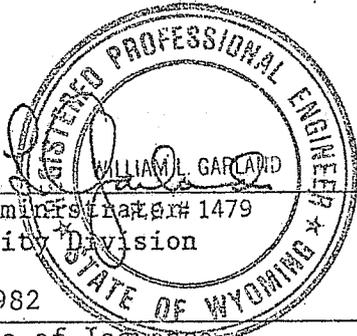
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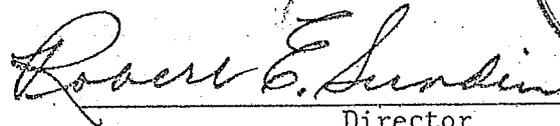
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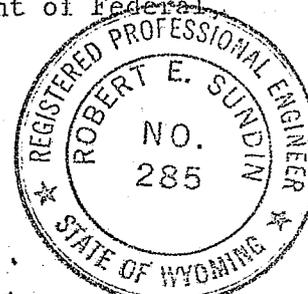
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
June 22, 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

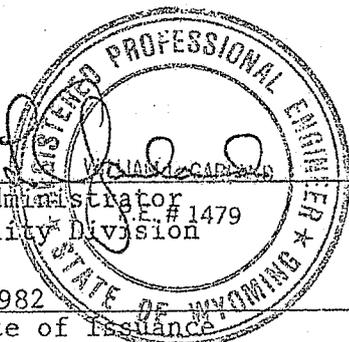
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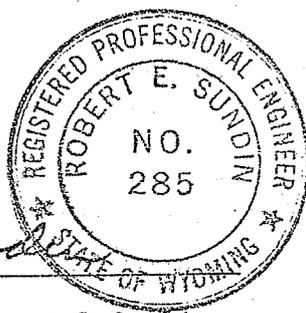
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AUTHORIZED BY:


William J. Carlson
Administrator
Water Quality Division
June 22, 1982
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:ch

7-26-52

PERMIT TO CONSTRUCT

New

Permit No. 82-296

Renewal

Modified

BEAR CREEK URANIUM, B-13 SEDIMENTATION RESERVOIR NO. 2
(Name of Facility)

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

Bear Creek Uranium Co.
Box 2654
Casper, Wyoming 82602

to construct, install, or modify a sedimentation reservoir

sedimentation reservoir facility according to the procedures and conditions of the application No. 82-296. The facility is located in Sec. 18, T.38N., R.72W.

sedimentation reservoir 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

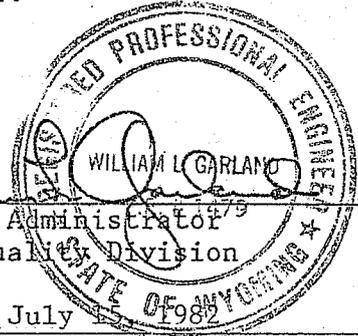
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 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.

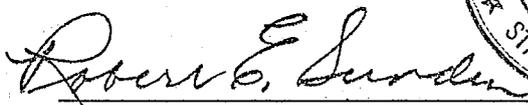
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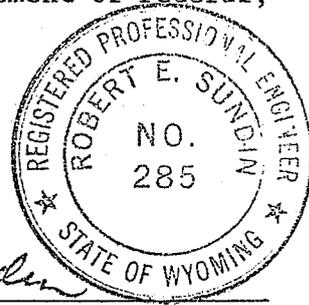
AUTHORIZED BY:

Administrator
Water Quality Division
July 15, 1982
Date of Issuance



Director
Dept. of Environmental Quality



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

xc: Robert J. Coppin, Engineer
Box 2000
Broomfield, CO 80020

Converse County Courthouse
107 N. 5th
Douglas, WY 82633

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 82-296

Date submitted for review June 7, 1982

Name and location of facility Bear Creek Uranium

Sec. 18 T 38 R 7 S Converse Co

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 Phil Parcel

Title WG Eng. Evaluator

Date July 7, 1982

agm
7/7

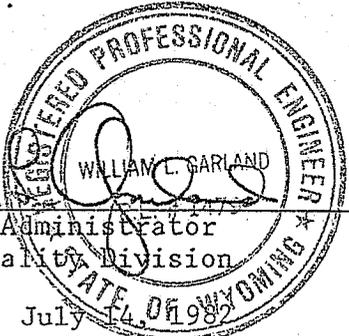
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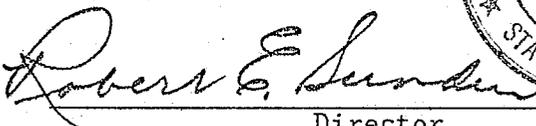
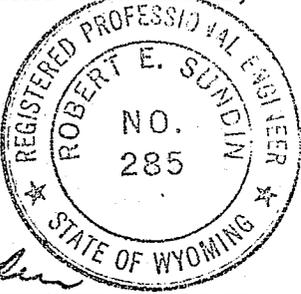
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:



Administrator
Water Quality Division
July 14, 1982
Date of Issuance



Director
Dept. of Environmental Quality

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

xc: Converse County Courthouse
107 North 5th
Douglas, WY 82633

Water Quality Division
Groundwater Section
Permit Application Review

Morgan
lets go
Sherridan
6-11-82

Application Number 82-297

Date submitted for review 6/9/82

Name and location of facility EAST ANTELOPE MINE POND
Sec. 35 T. 41N R. 71W
Converse County
(Antelope Coal Co.)

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 Leary*
Title *Eng. Field*
Date *6-10-82*

Review Approved *X*
6/10/82
(Date)

Not Approved _____
AJ Mancini
(Signed)
Groundwater Control Supervisor

82-298



Scott Engineering Company

Consulting Engineers
Post Office Box 2097
1901 Energy Court
Gillette, Wyoming 82716



Area Code 307
Telephone 682-3684



April 14, 1983

Mr. Tom Mueller
District Supervisor
Water Quality Division
Department of Environmental Quality
2161 Coffeen Ave., Suite 301
Sheridan, WY 82801

Ref: Gillette Overniter Park
DEQ/WQD Reference No. 82-298

Dear Tom:

The subject project is presently on a hold. The developer is reviewing the development opportunities, but the project will most likely not be constructed this year.

We would ask that this file be kept open for one more year.

Sincerely,

SCOTT ENGINEERING COMPANY

Edward S. Scott, P.E.

ESS/sz

cc: Bill Colson

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

April 18, 1983

Mr. Edward S. Scott, P.E.
Scott Engineering Company
P.O. Box 2097
Gillette, WY 82716

Dear Ed:

I have received your letter concerning the Gillette Overniter Park project, and understand that it has been delayed, for more than a year in all likelihood. I am, therefore, returning to you the plans and specifications for the project. When the developer decides to proceed with the project, we will be happy to receive these plans, and any modifications to them, for further review.

I'm returning them to you because if they were to remain in this office for an extended length of time they would begin to pose a storage headache, and could conceivably get lost or damaged. Returning them does not involve any additional review when they are resubmitted. After such a long time, any further review essentially requires "starting from scratch" anyway.

Thank you for responding to our inquiry. If you have any questions about this, feel free to give me a call.

Yours truly,

Tom Mueller

Tom Mueller
District Supervisor

TM:ls

xc: Norma Coulson



Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

April 8, 1983

CERTIFIED

Mr. Edward S. Scott
Scott Engineering Company
P.O. Box 2097
Gillette, Wyoming 82716

Dear Mr. Scott:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for your proposed project are:

Facility name: Gillette Overniter Park
DEQ/WQD Reference Number: 82-298
Engineering Consultant: Edward S. Scott, Scott Engineering Co.
DEQ/WQD Review Engineer: Tom Mueller
Date of DEQ/WQD Review: July 15, 1982

Please indicate below the status of your application and return this form to our office:

_____ The application will not be resubmitted as the proposed project has been cancelled.

_____ The application will be resubmitted within 30 days.

_____ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

_____ Other remarks:

Mr. Edward S. Scott
April 8, 1983
Page 2

You are reminded that the construction, installation, or modification of any sewerage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes, and is punishable with a fine not to exceed \$10,000 for each day of violation. Unless the Water Quality Division review engineer receives information concerning the status of this project within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,



Tom Mueller
District Supervisor

TM:ls
Encl.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: Gillette Overniter Park

ARCHITECT OR ENGINEER: Scott Engineering Company
P.O. Box 2097
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBER: 82-298

REVIEWING ENGINEER: Tom Mueller *TJM*

DATE OF REVIEW: July 15, 1982

ACTION: Not Authorized for Construction



COMMENTS:

1. No permit to construct can be issued until plans and specifications for the sewage treatment facility have been submitted and reviewed.
2. Minimum slopes for 6" sewers is 0.6% (.006 ft/ft). Many of the proposed sewers do not meet this requirement.
3. Sewer invert elevations at Manhole #3 (Sunny Side and Starlite) do not appear to match. Will a drop manhole be required? If so, it should be indicated. It would be very helpful if manhole invert elevations were indicated on the profile drawings.
4. Calculations estimating average, peak day and peak instantaneous water demand must be provided.
5. No fire hydrants shall be installed on any water system using mains smaller than six inches.
6. The water pumps shall be specified, and flow versus pressure information shall be provided as part of the specification.
7. The chlorination equipment shall be specified.
8. The water storage tank shall be specified as meeting the requirements of AWWA Standard D-103.
9. The control system for the various components of the water system must be described.

Gillette Overniter Park

82-298

July 15, 1982

10. The chlorination system, as shown on the drawings, has no pressure source for the eductor. How will this operate?
11. The chlorine fan specification on sheet 7 shall indicate how many CFM the fan shall discharge.

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.

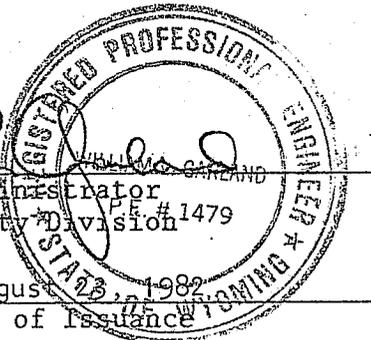
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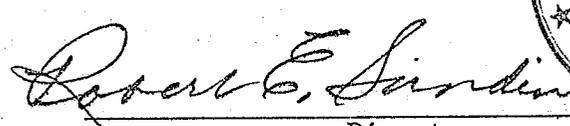
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AUTHORIZED BY:


Administrator
Water Quality Division #1479
August 23, 1982
Date of Issuance




Director
Dept. of Environmental Quality



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

FL:dp

Review of Plans and Specifications

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

PROJECT: City of Lander, Tweed Lane Interceptor Sewer and Wyoming State Training School Force Main and Sewage Lift Station

ARCHITECT OR ENGINEER: John F. Tsern, P.E., Western Design Consultants
350 W. 2700 S., Salt Lake City, UT 84115

APPLICANT: City of Lander, ATTN.: Alan O'Hashi
183 South 4th, Lander, WY 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 82-299

REVIEWING ENGINEER: Ed Baruth, M. Robin Collins, Jeff Hermansky

DATE OF REVIEW: June 16, 1982

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

After reviewing the aforementioned project, we offer the following comments for your consideration prior to processing the necessary permit:

1. The enclosed "Application Form for a Permit to Construct" needs to be completed, signed by the owner or his agent, and submitted to this office before a permit can be issued.
2. The Facility Plan and addendums indicated that a 4" force main and 12" interceptor would be placed, however, the plans and specifications describe an 8" force main and 15" interceptor. Please substantiate why this increase is warranted. Further, is a 300 gpm pump station necessary, as peak design flow may not apply if the lagoon is used as a dampering device.
3. On the pump station:
 - a. Will there be high level alarms?
 - b. We presume that the specified 50 cycle motor in Section 15350 is a typographical error.
 - c. Because the location is remote, an alarm switch or telemetry to the city water department garage is suggested.
 - d. Items a, b, and c indicate a need for a wiring diagram.
4. On proposed manholes and pipe:
 - a. Can the interceptor between Manhole 7 and Manhole 10 be served by one less manhole?
 - b. Can the interceptor between Manhole 1 and Manhole 3 be served by one less manhole?

City of Lander
Tweed Lane Interceptor Sewer and Wyoming State
Training School Force Main & Sewage Lift Station
Page 2

- c. Is curved pipe being proposed for this installation? (Reference Detail F-11)
- d. In what location is Class C bedding proposed?
5. Can the existing pump station at Riverview Drive be eliminated by the interceptor installation?
6. Can locations of air release manholes and cleanouts be more specific?
7. Concerning the Squaw Creek Crossing we assume that you will excavate, store materials on site, and then reinstall in accordance with detail A-9. If this is correct, it appears that a Corp of Engineers 404 dredging permit will not be required. However, a Nationwide Permit from the Corp is still necessary. Please submit a description of proposed activity and method of construction to:

Omaha District Office
ATTN: Ralph Miller
Corp of Engineers
P.O. Box 5
Omaha, NE 68101

Also find attached a copy of the Wyoming Department of Game and Fish standard precautions to consider for this crossing. (Squaw Creek is a Class 3 stream.)

8. The wage determination expires June 30, 1982, therefore new rates will have to be included in this specification. We will discuss this with Western Design Consultants and begin this process.
9. Section 01000 requires a \$5,000.00 Letter of Credit, however this is not a separate bid item in the proposal. How will this be handled?
10. The project sign is listed in the specification but not in the proposal. Our suggestion is to include this portion of the project on the project sign for the treatment facility by Change Order.
11. We have submitted a copy of the Plans and Specifications to the Corp of Engineers in Omaha for a "Biddability and Constructability" review.
12. We will need to know an estimated time of completion prior to final authorization and permit to construct.

Enclosure

The following standard precautions are recommended for crossings on all Class 1, 2, 3 and 4 streams.

1. Avoid trout spawning periods (spring for rainbow and cutthroat; fall for brown and brook).
2. Avoid dewatering streams.
3. Minimize time period of activity in streams.
4. Minimize disturbance of streamside vegetation.
5. Revegetate any areas where vegetation is disturbed.
6. Leave the stream with its original bottom contour and substrate composition, stream gradient and length.
7. Avoid spillage of grease, oil and gas into streams.
8. Check valves should be installed to minimize spillage in the event of pipeline failure.
9. Oil seals and other potential contaminant sources on equipment should be inspected and repaired if necessary prior to working in streams. This protects both the stream and equipment.
10. Boring under the river is preferable to trenching or digging up the stream.
11. Instead of using standard coffer dams, in some cases it is desirable to move clean material into the river, dig trench down center, and remove after construction.
12. Certain individual crossings may require additional more detailed considerations.
13. State Water Quality standards should not be violated.
14. The pipeline should follow along existing pipeline routes.
15. The contractor shall schedule and conduct operations to avoid interference with movement of migrating fish and maintain an adequate low water channel through the construction area for fish movement.
16. The alignment of the stream channel should not be changed.



November 18, 1982

Mr. Jack Bedessem
Wyoming Department of Environmental Quality
Water Quality Division
210 Lincoln
Lander, Wy. 82520



Re: City of Rock Springs
City Sewer Line JFC #2209
EPA Project C560226-01

Dear Mr. Bedessem,

As per our telephone conversation this letter is to advise you that you are hereby requested to withdraw the Application for Permit to Construct for the above reference sewer line improvements within the corporate limits of the City of Rock Springs.

Very Truly Yours,
Johnson, Fermelia, & Crank, Inc.

Dale Crank

DC/jb

Ref 82-300R

Mike H.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Sanitary Sewer Lines for City of Rock Springs, WY

ENGINEER: Dale Crank, P.E.
Johnson, Fermelia and Grank, Inc.
Box 131
Kemmerer, WY 83101

OWNER: City of Rock Springs, WY
C. Keith West, Mayor

WATER QUALITY DIVISION REFERENCE NUMBER: 82-300

REVIEWING ENGINEER: Jack Bedessem *JB*

DATE OF REVIEW: July 9, 1982

ACTION: Not authorized.

COMMENTS: An initial review of your plans and specifications has been made before the review can be completed and a "Permit to Construct" issued, the following points need to be resolved or addressed:

1. DEQ needs a completed Application to Construct, Install or Modify Public Water Supplies and Wastewater Facilities in Wyoming, for this project.
2. The estimated flow quantities for the proposed sections of pipe, and the existing sewer lines adjoining the proposed sections are needed.
3. Refer to page 5 of 23, line from MH64 to MH63 and page 8, line from MH13A to MH13. There is approximately 1.5 feet of cover between the creek bed and crossing sewer. Ten State Standards requires a cover of 3 feet.
4. The design calculations for the lift station and force main are needed (i.e. estimated flow quantities, minimum and maximum velocities, low flow and high flow retention times, wet well sizing, pump cycling, etc.)
5. Refer to Manhole Station 51+07.58, page 23 of 23. The force main enters the gravity sewer system approximately 4 feet above the invert of the receiving manhole. Ten State Standards requires not more than 2 feet.

ABC

Sanitary Sewer Lines for City of Rock Springs, WY
July 9, 1982
Page 2

6. Refer to MH9, page 4 of 23. A problem may occur with the influent flow from the existing line flowing back towards the influent of the new line. Obstructed flow conditions may occur.



7. Referring to the proposed automatic bar screen. Your plans show no manually cleaned screen in the bypass channel. Ten State Standards requires an auxiliary manually cleaned screen to be provided.

8. Refer to Lift Station Type I. Ten State Standards requires a horizontal not a vertical check valve on the discharge after each pump. Your plans show a vertical check valve.

9. Refer to the aerial force main crossing page 14 of 23. What plans and provisions are there for insulating, encasing and bracing this crossing. A frozen force main could cause a lot of problems.

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

JB:dp

