

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

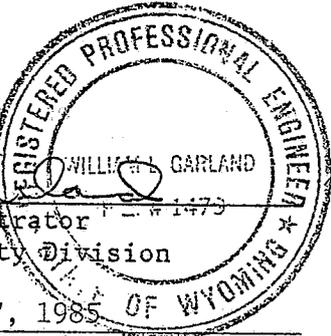
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

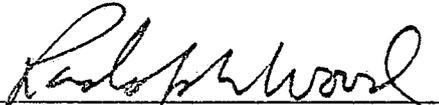
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


 Administrator
 Water Quality Division



December 17, 1985
 Date of Issuance


 Director
 Dept. of Environmental Quality

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

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

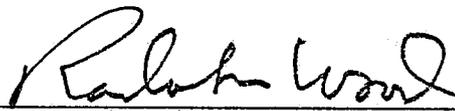
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


ADMINISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
STATE OF WYOMING
January 3, 1986
Date of Issuance


Director
Dept. of Environmental Quality

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

* CONDITION ON PERMIT *

Due to the overloaded conditions frequently present at the Worland sewage treatment plant, there can be no industrial service connections made to the Worland sewage collection system at this time. The sewer main permitted under this permit may be used to collect domestic sewage only.

REVIEW OF PLANS AND SPECIFICATIONS

Norma

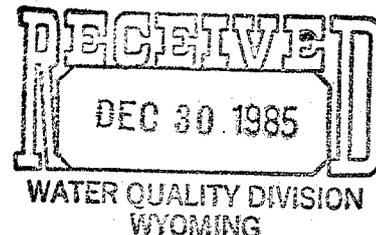
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Sorensen Industrial Area-Sewer Improvements No. 2

ENGINEER: Stanton Abell, Jr.
P.E. Grosch Construction, Inc.
P.O. Box 36
Worland, WY 82401

OWNER: Halliburton Services
P.O. Box 229
Worland, WY 82401



WATER QUALITY DIVISION REFERENCE NUMBER: 85-602

REVIEWING ENGINEER: Jeff ^{JH}Hermansky & Steven P. Gerber, P.E.

DATE OF REVIEW: December 27, 1985

ACTION: Not authorized.

COMMENTS:

Halliburton Services' application to extend the existing sewer in the Sorensen Industrial Area an additional 400 feet has been denied due to a recent decision by the Water Quality Division. At this time, no permits are to be granted for sewer mains intended to serve as collectors for industrial wastewater in the City of Worland.

This decision was made because Worland's sewage treatment facility is being loaded at a rate greater than for which it was designed. Even at the current loading rates, the facility has had trouble consistently meeting the limits of the discharge permit.

The decision applies to industrial wastewater only. Domestic sewage, that is sewage from bathrooms, kitchens, and laundry rooms, may still be collected and sent to the treatment facility. Therefore, the proposed 8 inch main may be authorized for bathroom facilities in an industrial area.

Please resubmit the plans showing all proposed service connections to the main. There can be no connections made for the collection of wastewater from non-domestic sources. As a matter of clarification, it is a violation of the Water Quality Rules and Regulations to construct any wastewater treatment or collection system prior to receiving a permit signed by the Director and Administrator.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please feel free to contact either Steve Gerber or me.

JH/jw
copy: Jake Strohman, DEQ/WQD, Cheyenne

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-603R
 SEE SPECIAL CONDITIONS
 MA 14542

Cathedral Home for Children
 (Name of Facility)

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

Richard L. Munchel, Resident Director

Cathedral Home for Children

P.O. Box E

Laramie, WY 82070

to construct, install, or modify a emergency repairs to a commercial subsurface wastewater treatment and disposal facility according to the procedures and conditions of the application No. 85-603R. The facility is located in S1/2 Section 16, T16N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of 30 days (five (5) years maximum) from the date of issuance of this permit.

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

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

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

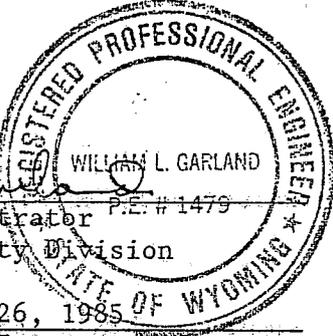
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

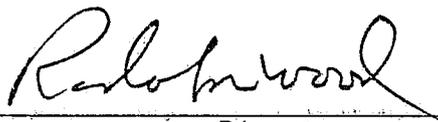
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:


Administrator P.E. # 1479
Water Quality Division

December 26, 1985
Date of Issuance


Director
Dept. of Environmental Quality

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

Conditions to Permit to Construct #85-603R

1. The permittee shall notify the Albany County Planning Office, 405 Grand Avenue, Laramie, Wyoming 82070, phone number 721-5288, of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.
2. 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 Laramie Step I 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.
- *3. The minimum separation requirements of four feet between the bottom of the trench and the bedrock cannot be met and therefore this application package does not meet the minimum requirements of Chapter XI, Water Quality Division Rules and Regulations. Since this is an emergency situation, this temporary expansion is authorized provided that the following items are met:
 - a. A permanent wastewater treatment and disposal plan shall be submitted to the Water Quality Division by March 31, 1986.
 - b. A wastewater system authorized by the Water Quality Division shall be constructed, installed and in use by October 1, 1986.
 - c. The existing wastewater system shall be abandoned by October 1, 1986.

cc: Willard Given, 115 East 22nd Street, Cheyenne, WY 82001

12-18-85

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Cathedral Home for Children, Albany Co.

ARCHITECT OR ENGINEER: Willard Given, Willard Given & Assoc., P.C.
115 East 22nd St., Cheyenne, WY 82001

APPLICANT: Richard Munchel, Resident Director
P.O. Box E, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 85-603

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

DATE OF REVIEW: December 17, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The percolation rates were calculated incorrectly. The rate is based on the final water level drop during the last time interval and not the total water level drop during the total time period. For example, PTH-1 has a rate of 8.8 minutes/inch (20 minutes divided by 0.19 feet divided by 12 inches).
2. The trench section detail is inadequate. The perforated pipe must have stone placed around it for treatment and disposal purposes. The stone size must be 1/2 - 2-1/2 inches with at least 6 inches under the pipe and 2 inches over the pipe. The stone must then be covered with filter cloth or straw prior to back-filling.
3. I suggest that the perforated pipe be kept as high in the trench as possible and yet allow for gravity flow. Because of the high bedrock, this allows for maximum treatment and storage.
4. The minimum separation requirements of four feet between the bottom of trench and the bedrock cannot be met and therefore this proposal does not meet the state's minimum requirements. Since this is an emergency situation, this temporary expansion could be authorized provided that the following items are met:
 - a. A commitment that a permanent system meeting all the state's requirements be installed early next year. Per discussions, I understand that a connection to the Diamond Horseshoe lagoon is being sought. The Water Quality Division needs a signed commitment as to your final solution with specific tasks and dates being identified. Tasks include hiring an engineer, submittal of plans to Water Quality Division for authorization, hiring a contract, start and completion of construction project.
 - b. An agreement with the Diamond Horseshoe that they will allow you to connect to their wastewater system.

cc: Albany County Planning

Rum

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-604R
SEE CONDITIONS ATTACHED

Teton Village Land Application Facility
(Name of Facility)

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

Teton Village Water and Sewer District

Box 586

Teton Village, WY 83025

to construct, install, or modify a sewage sludge land application facility according to the procedures and conditions of the application No. 85-604R. The facility is located in Sections 24 and 25, T42N, R117W, Section 19, T42N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

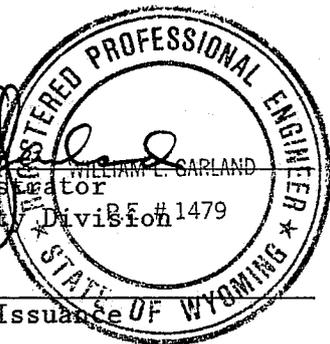
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:


William E. Garland
Administrator
Water Quality Division
09-26-86
Date of Issuance

Randolph Wood
Director
Dept. of Environmental Quality

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

cc: Steve Gerber, DEQ/WQD, Lander

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-604R

1. Sludge analyses will proceed from the date of permit issuance according to the standardized monitoring schedule, except that the parameters are reduced to the following, due to the nature of the generating community:
 - a. all solids analyses
 - b. all nutrients
 - c. pH
 - d. conductivity
 - e. cadmium, copper, lead, nickel and zinc
2. Samples of wastewater influent and liquid digested sludge will be transmitted to the Wyoming State Veterinary Laboratory in Laramie for the appropriate pathogenic organism analyses, which are being arranged at this time. Sample size should be one liter or greater in sterilized plastic containers to be cooled in transit. This is a one-time requirement, and will be used as a check on the treatment plant operational parameters required to the PSRP level prior to land application.
3. A background soil sample site will be located at an area adjacent to, and typical of the land application area, without having received sludge. Analyses required are listed in the standardized monitoring schedule.
4. Groundwater sample analyses will be submitted in subsequent years as required by the standardized monitoring schedule.
5. The requested variance from the 30 day restriction of livestock grazing to a 7 day period is granted based on the operational situation on the Snake River Ranch where sludge will be applied to the pastures during the period of April 5 - May 15, with livestock use soon after. Attempts should be made to complete the land application as early in that period as possible to decrease the chance of direct sludge ingestion by livestock from contaminated vegetation.
6. The existing pasture fencing is considered adequate public access restriction.



THE STATE OF WYOMING

12-20
MA 14542

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 17, 1985

Town of Elk Mountain
P.O. Box 17
Elk Mountain, WY 82501

RE: Permit to Construct Application Number 85-605

Gentlemen:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (85-605) for a permit to construct two upgradient monitor wells located in Section 17, T20N, R80 W., Carbon Co. The Water Quality Division has determined that the wells meets the minimum design standards.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. This letter 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 letter. 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 letter, the state does not in any way waive its sovereign immunity.

Since your system has already been constructed, a permit to construct cannot be issued. This letter is your record that the monitor wells installed meet minimum state specifications and have been approved by the Wyoming Department of Environmental Quality, Water Quality Division.

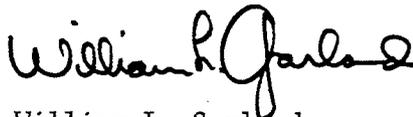
Specific comments concerning the construction of the monitor wells are as follows:

1. The screened intervals in the upgradient wells do not intercept the water table. If downgradient wells are necessary, the design of these wells should take into account this deficiency.
2. A deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Wyoming Water Quality Division Rules and Regulations, Chapter XI, Section 65. However, a sufficient seal should be installed according to normal engineering practice.

Town of Elk Mountain
December 17, 1985
Page 2

In the future if you are to build monitor wells, you must apply for a permit to construct prior to construction to avoid enforcement action.

Sincerely,

A handwritten signature in black ink, appearing to read "William L. Garland". The signature is written in a cursive style with a large, prominent "G" at the end.

William L. Garland
Administrator

WLG/CGN/nc

cc: Harry E. Hughes, ARIX, 609 E. Madison, Riverton, WY 82501



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 15, 1986

Mr. Wes Bressler
City of Laramie
P.O. Box C
Laramie, WY 82070

RE: Permit to Construct Application Number 85-606R

Mr. Bressler:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (85-606R) for a permit to construct an overflow line on a private storage tank for your public water system at S35, T16N, R73W, Albany County. The Water Quality Division has determined that the system meets the minimum design standards.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. This letter 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 letter. 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 letter, the state does not in any way waive its sovereign immunity.

Since your system has already been constructed, a permit to construct cannot be issued. This letter is your record that the water system modification installed meets minimum state specifications and has been approved by the Wyoming Department of Environmental Quality, Water Quality Division.

In the future if you are to build a wastewater system, you must apply for a permit to construct prior to construction to avoid enforcement action.

Sincerely,

William L. Garland
Administrator

WLG/TSN/nc

Run ✓



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 16, 1986

Wes Bressler
City of Laramie
P O Box C
Laramie, WY 82070

Mr. Bressler:

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:	City of Laramie, High Level Storage Tanks
DEQ/WQD Reference Number:	85-606
Engineering Consultant:	Wes Bressler
DEQ/WQD Reviewing Engineer:	Christian Norman
Date of DEQ/WQD Review:	12-20-85

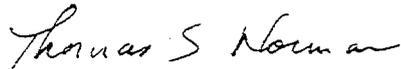
According to Chapter III of the Water Quality Rules and Regulations, Section 7 b. (2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned."

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 _____

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. Unless the Water Quality Division reviewing engineer receives this information within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,



Thomas S. Norman
Southeast District Supervisor
Water Quality Division

pjb

12-23-85

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: City of Laramie High Level Storage Tanks, Albany Co.

ARCHITECT OR ENGINEER: Wes Bresslor, City of Laramie
P.O. Box C, Laramie, WY 82070

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

WATER QUALITY DIVISION REFERENCE NUMBER: 85-606

REVIEWING ENGINEER: Christian G. Norman *Christian G. Norman*

DATE OF REVIEW: December 20, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Three copies of the plans and specifications are required. Only one copy was submitted.
2. A detail of the discharge should be included. A drainage inlet structure or a splash plate is required.
3. The overflow should open downward and be screened with noncorrodible screen installed within the pipe to prevent vandalism.

CGN/nc

85-607



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 20, 1985

Mr. Keith Lundine
City Engineer
P.O. Box C
Laramie, WY 82070

RE: Liner for Alum Feed Tank, DEQ/WQD Permit No. 85-198

Dear Mr. Lundine:

This is to confirm our telephone conversation of December 19, 1985. With regards to changing the liner in the Alum feed tank (DEQ/WQD Permit No. 85-198), an additional permit to construct is not required. The application is being returned to you and the information submitted will be filed with the approved plans and specifications. If you have any questions, please contact this office.

Sincerely,

A handwritten signature in cursive script, appearing to read "Christian G. Norman".

Christian G. Norman
Engineering Evaluator

CGN/nc

R.F

PERMIT TO CONSTRUCT

PERMIT NO. 85-608
C560243-31

- New
- Renewal
- Modified

Dry Creek Wastewater Treatment Plant Modification

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P O Box 1469
Cheyenne, WY 82003

to construct, install or modify municipal wastewater treatment plant according to the procedures and conditions of the application number 85-608. The facility is located in S6, T13N, R65W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

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

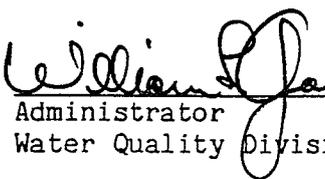
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

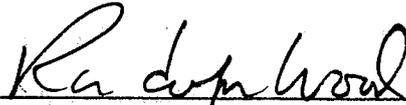
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

8-27-87
Date of Issuance

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

PERMIT TO CONSTRUCT

PERMIT NO. 85-608
C560243-31

X New
Renewal
Modified

Dry Creek Wastewater Treatment Plant Modification

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P O Box 1469
Cheyenne, WY 82003

to construct, install or modify municipal wastewater treatment plant according to the procedures and conditions of the application number 85-608. The facility is located in S6, T13N, R65W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

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

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

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

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Ra don Wood
Director
Department of Environmental Quality

8-27-87
Date of Issuance

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



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

September 8, 1987

Mr. Carroll Aamold
Board of Public Utilities
P O Box 1469
Cheyenne, WY 82003

RE: Cheyenne, Wyoming, EPA Grant No. C560243-31, Dry Creek Stage II-B, Plans and Specifications, DEQ/WQD Ref. No. 85-608RRRR

Dear Mr. Aamold:

Forwarded herewith please find the executed permit to construct for the subject project. Also included is one set of the stamped plans and specifications. Only two sets of plans and specifications were submitted for final review. One set is retained for our records. If the design consultant would like a stamped copy, an extra set will need to be furnished.

Five items have been found on the project to be ineligible for federal participation. These are identified below along with the ineligible percentage and basis of computation:

1. Primary sludge pumping station - 28.5% of structure ineligible based upon percentage of floor area committed for future use. The ineligible percentage will be applied to structural costs only (i.e. does not include piping or equipment).
2. Primary sludge pumping station splitter boxes - The ineligible percentage of the primary clarifier influent splitter is 36.56% and the aeration basin influent splitter is 35.17%. The ineligible cost is computed based upon the volume of concrete. The ineligible percentage will be applied to all costs associated with the splitter including piping and fittings.
3. Activated sludge pump station - The ineligible percentage is 20.97% based upon percentage of floor area committed for future use. The ineligible percentage will be applied to structural costs only.
4. Activated sludge pump station splitter box - The ineligible percentage is 52.09% and is computed based upon the volume of concrete. The ineligible percentage will be applied to all costs associated with the splitter including piping and fittings.

. Carroll Aamold
September 8, 1987
Page 2

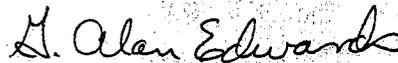
5. Future screw pump channel - The ineligible percentage is 34.64% and is computed based upon the volume of concrete. The ineligible percentage will be applied to structural costs only.

The actual ineligible cost will be computed by applying these percentages to the costs for these structures which will be identified in the successful contractor's schedule of values. Copies of plan sections identifying ineligible portions of the project are included herewith.

The authorization of the plans and specifications is not authorization to begin advertising for the project. Costs incurred prior to grant award are not grant eligible. Any addendums to the authorized plans and specifications must be approved by this office.

If you have any questions on the above, please contact me at (307) 777-6351.

Sincerely,



G. Alan Edwards
Engineering Supervisor
Water Quality Division

GAE/nc

cc: Jack Young, Cheyenne Board of Public Utilities, (w/encl)
Gerald Berg, Black & Veatch, Aurora, (w/encl)
Tony Medrano, U.S. EPA, Region VIII, Denver, (w/encl)
Grant File



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 29, 1986

Mr. Carroll Aamold
Board of Public Utilities
P.O. Box 1469
Cheyenne, WY 82003

RE: Cheyenne, Wyoming, proposed EPA Grant No. C560243-31, Plan and Specification Review, DEQ/WQD Ref. No. 85-608RR

Dear Mr. Aamold:

This office has completed the biddability and constructability review of the subject plans and specifications. As we discussed on September 5, 1986, we have several comments. These are as follows:

PLANS

1. Some of the piping diagrams are difficult to follow. Some of the pipe locations are difficult to follow between plan sheets and sections. An example is the piping details in the digester control building. There are similar problems with section references being improperly noted. These are items which could cause confusion for the contractors thereby increasing the bid cost. Efforts should be made to clarify these drawings and details.
2. Sheet S-2 - All sludge stockpiles need to address the protection of surface and groundwater supplies. Is the condition of the sludge to be stockpiled apparent to bidders so they can make a reasonable bid on this item? Why is it necessary to construct an 18' asphalt drive and paved area on the west side of the digesters? What will the gravel drive extension on the northwest corner of the site serve? Are 17' wide gravel drives necessary around the existing sludge drying beds since all of the other drives are 12' wide?
3. Sheet S-3 - What is the new 6" line as noted north of the new preliminary treatment building? What are the new 8" and 30" lines from the east side of the chlorine contact basin? What is the new 24" line from the existing secondary clarifier No. 2? Should these be labelled on this plan sheet?
4. Sheet P-1 - Why is it necessary to replace the existing glass in the pre-treatment building as per note on each elevation? Is this intended for all of the existing building? It is unclear how the east elevation and the partial east elevation compare.

5. Sheet P-2 - It is assumed the curb cut-outs on the west side of the existing building are vehicle access ramps. Is there a detail for these identifying size and slope? Is a new concrete walk to be installed on the south side of the existing building?
6. Sheet P-3 - Is it intended to replace the roof on the existing building? Roof replacement for maintenance purposes is not eligible for EPA participation.
7. Sheet P-4 - Are separate men and women restroom and shower facilities provided?
8. Sheet P-5 - Are there drain lines from the floor drains and if so where do they go?
9. Sheet p-9 - Is there a detail for the handrail between the screw pump channels?
10. Sheet P-15 - Why is the elevation into the grit chamber (5900.35) higher than the elevation in the channel from the screw pumps (5899.60)? Is the size and spacing of the reinforcement identified elsewhere such as for section 2/P-14?
11. Sheet P-17 - Chapter XI regulations require manual bar screens to have openings of from 1" to 1 3/4".
12. Sheet P-18 - See comment No. 8. Is the reinforcing identified such as for sections 2, 3, and 4? Should the word replace be added to note 2 as in "... new slab, replace w/..."
13. Sheet P-19 - What reinforcement will be placed to the right of the grating in Section D?
14. Sheet B-2 - Is section 2 complete?
15. Sheet B-4 - The over-sizing of the pump station and splitter boxes will be separated for eligibility after bid opening. The eligibility of the pump station will be established based upon a percent of the eligible floor area versus the total floor area.
16. Sheet B-5 - Extra splitter boxes are ineligible and will be separated after bid opening.
17. Sheet B-9 - Will pressure relief valve need to extend through polyethylene film in detail I? The concrete cap over the granular fill is depicted differently in section 1 than in section 2. Is this intended?
18. Sheet B-11 - Ineligible pump station costs will be determined after bid opening based on a percentage of floor area. The two extra splitter boxes will be ineligible for EPA participation. Some of the pipes are not labeled as to type (i.e. return activated sludge, suction). Should the 6" line to WAS-3 be shown on section 1?

19. Sheet B-13 - Since chlorine is being added in the non-potable water pumping station, all chlorine safety requirements would need to be met such as panic hardware, leak detector, outside switches for lights and fan, etc.
20. Sheet B-14 - Should strainer and piping be indicated on section 1?
21. Sheet U-1 - Do the highlighted boxes west of the raw sludge pumphouse and south of clarifier no. 1 represent concrete sidewalk replacement?
22. Sheet U-4 - In note no. 1, Wyoming statutes require all design to be performed by a Wyoming professional engineer.
23. Sheets U-5 and U-6 - There is a lot of confusion between these two sheets. Some of the sections on sheet U-6 do not seem to correctly reflect the piping from the plan view.
24. Sheet Y-1 - Sheet P-17 shows the existing 24" interceptor at the screw pumps to be 5880.20'. Does this conflict with Profile G?
25. Sheet Y-3 - No reference is given in the buried fuel tank detail as to cathodic protection or measures to be taken to meet underground storage tank requirements. What measures will be taken in this regard and where are they listed?
26. Sheet G-13 - How and when will the basin underdrain systems be used?
27. Sheet G-14 - Would it be more appropriate to show the piping details superimposed over the modified preliminary treatment building?

SPECIFICATIONS

28. General - Is there a specification reference that identifies that all materials and equipment specified will accept "or equal" provisions? Some items are specifically referenced in the plans and specifications with "or equal" not being identified.
29. Instructions to Bidders - Under section B-12, you also need to reference section 16-6-110 of the Wyoming Statutes regarding overtime pay for time in excess of 8 hours per day. Any questions concerning daily overtime provisions need to be directed to Dennis Guilford, Department of Labor and Statistics, 777-6380.
30. EPA inserts - The covered area needs to be identified on page 2. The Federal Department of Labor is no longer enforcing the daily overtime provisions of the Labor Standards Provisions. See comment no. 30 regarding State requirements for overtime. Replace page 19 with the new page 19 included herewith. The plans have been forwarded to EPA to obtain the appropriate wage decision. The wage decision will be forwarded upon our receipt of the same and must be included in the bidding documents before bidding.
31. Project Requirements - Sufficient information needs to be submitted with a schedule of values before bid award to allow a determination of eligible

versus ineligible costs. If the facilities are in a flood hazard area, does the Board carry flood insurance for plant facilities?

32. Section 11K - What is the basis for cost effective analysis? What is the term and percentages that will be applied? Is it intended to award the contract on the lowest bid then increase the contract amount after contract award if another alternative is more cost effective? What if this results in a contract price that is no longer the lowest bid? EPA's policy is to award to the lowest, responsive, responsible bidder who meets the contract requirements. If other "or-equal" equipment is a lower bid, how could bid award or contract price (and EPA participation) not be based upon that price?
33. Section 11T - Why is it necessary for the wash system to be capable of "washing all city vehicles and large equipment?" If it is intended for this equipment to have general city wide use as opposed solely to applications at the wastewater treatment plant, the EPA participation would need to be prorated.
34. Section 14D - What are the intended uses for this vehicle?
35. Section 15A - What class of electrical equipment is specified for use in the pretreatment building? Areas where explosive conditions may exist, such as flammable or volatile liquids, require class 1, division 1 rated equipment. As an example, housing for screens are required to be designed for hazardous locations (National Electrical Code, Class 1, Groups C and D, Division 1 locations) as per Chapter XI. It seems appropriate that heating, ventilating, and lighting systems be also designed for these conditions in these areas.

GENERAL

36. Forwarded herewith are the review comments by the Occupational Health and Safety Office.
37. The review sign-off letter from the appropriate local electrical review authority will need to be submitted for the permit records since there is "home rule" authority.

If you have any questions on the above, please contact me at (307) 777-6351.

Sincerely,,

G. Alan Edwards

G. Alan Edwards
Engineering/Grants Evaluator

GAE/nc

cc: Gerry Berg, Black & Veatch, Denver (w/enc.)
Tom Norman (w/enc.)
Permit File (w/enc.)
Grant File (w/enc.)

(F) WYOMING OCCUPATIONAL HEALTH AND SAFETY ACT OF 1969

The contractor is subject to the provisions of the Wyoming Occupational Health and Safety Act of 1969.

These construction documents and the joint and several phases of construction hereby contemplated are to be governed, at all times by applicable provisions of the State law(s), including but not limited to the latest amendment of the following:

- (1) Wyoming Occupational Health and Safety Act of 1969;
- (2) Wyoming Occupational Health and Safety Rules and Regulations for General Industry;
- (3) Wyoming Occupational Health and Safety Rules and Regulations for Construction.

SAFETY AND HEALTH PROGRAM

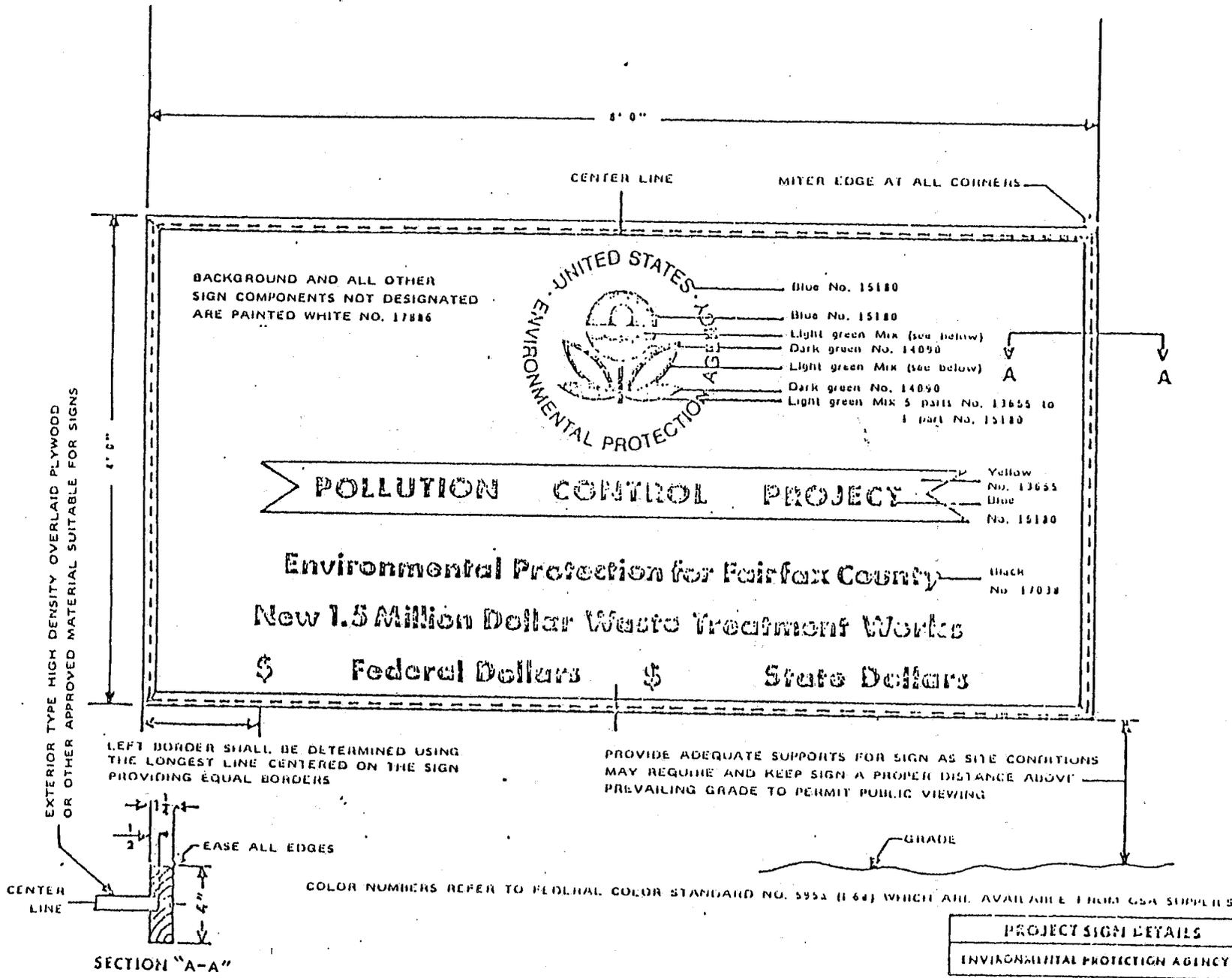
This project, its prime contractor and his subcontractors, shall at all times be governed by Wyoming Occupational Health and Safety Rules and Regulations as amended to date.

To implement the program and to provide safe and healthful working conditions for all persons, general project safety meetings will be conducted at the site at least once each month during the course of construction, by the construction superintendent or his designated safety officer. Notice of such meeting shall be issued not less than three (3) days prior, stating the exact time, location, and agenda to be included. Attendance by the owner, architect, general foreman, shop steward(s), and trades, or their designated representatives, witnessed in writing as such, shall be mandatory.

To further implement the program, each trade shall conduct a short gang meeting not less than once each week, to review project safety requirements mandatory for all persons during the coming week. The gang foreman shall report the agenda and specific items covered to the project superintendent, who shall incorporate these items in his daily log or report.

The prime contractor and all subcontractors shall immediately report all accidents, injuries, or health hazards to the owner and architect, or their designated representatives, in writing. This shall not obviate any mandatory reporting under the provisions of the Wyoming Occupational Health and Safety Act of 1969.

This program shall become a part of the contract documents and the contract between the owner and prime contractor, prime contractor and all subcontractors, as though fully written therein.



(G) PROJECT SIGN DETAILS



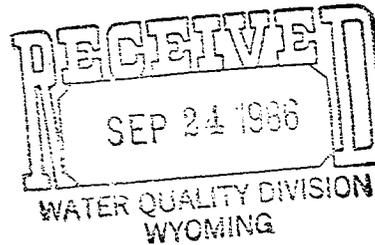
Occupational Health and Safety

CHEYENNE, WYOMING 82002

July 25, 1986

JAMES ZANCANELLA, PH.D.,
CHAIRMAN
H.B. ANDERSON, M.D.
RON BAGBY
L. KEITH HENNING
FLOYD J. HENRY
JAMES D. NEIMAN, JR.
JENNIE PARKER

DONALD D. OWSLEY
HEALTH AND SAFETY ADMINISTRATOR
(307) 777-7786



Mr. Alan Edwards
DEQ/WQD
Herschler Building
Cheyenne, WY 82002

Dear Alan:

Re letter dated June 26, 1986 concerning the Federal Register and federal relinquishment of jurisdiction in Wyoming for matters of safety and health. The following comments include changes to reference to the Williams Steiger Act of 1970:

1. Page TC-1, item (F) - Change "Williams Steiger Occupational Safety and Health Act" to "Wyoming Occupational Health and Safety Act".
2. Page 19 - Change title, "Williams Steiger Act", etc., to "Wyoming Occupational Health and Safety Act".
Para. 2, line 3 - change "Federal law(s)" to "State law(s)".
Change reference to "Williams Steiger", etc., to "Wyoming Occupational Health and Safety Act".
Change "Part 1910", etc., to "Wyoming Occupational Health and Safety Rules and Regulations for General Industry".
Change "Part 1926", etc. to "Wyoming Occupational Health and Safety Rules and Regulations for Construction".
Para. 3 - Change line 2 to read, "governed by Wyoming Occupational Health and Safety Rules and Regulations for Construction as amended to date".
Para. 6, line 4 - change to read, "under the provision of the Wyoming Occupational Health and Safety Act".
3. Page 14 B-1, para. 14-B2.02 - Change "Occupational Safety and Health Standard of . . .", to "Wyoming Occupational Health and Safety Rules and Regulations for General Industry".
4. Page 9A-13 or 9A-15 - Coal Tar Epoxy Paint. Coal tar epoxy paints have high levels of coal tar pitch which is listed as a carcinogen in the Wyoming Occupational Health and Safety Rules and Regulations for General Industry. Material Safety Data Sheets (MSDS) in our technical library in-

dicates that the materials will produce toxic vapors that reach or exceed the permissible exposure limits if used in unventilated, confined spaces and would require the use of personal protective equipment. Warning concerning the hazards of the material should be documented as either an addition to 9A-9.03, Coal Tar Epoxy Paint, on page 9A-13 or a new section after 9A-11, Protection of Surfaces, on page 9A-15.

- EXAMPLE: Warning - Bituminous and coal tar-based coating and paints are listed in the Wyoming Occupational Health and Safety Rules and Regulations as a carcinogen and are not to be used in confined spaces without adequate ventilation or adequate personal protective equipment. Check manufacturer supplied Material Safety Data Sheets for adequate protection.
5. Page 14A-2, item 14A-2.05 "Labels" - Chapter XIV, Section 8.a.(2) of the Wyoming Occupational Health and Safety Rules for General Industry, requires that the supporting structure of an overhead hoist also be plainly marked with its rated capacity and shall be clearly legible from the ground or floor.
 6. Drawing B-7, sheet 30 of 96, section $\frac{5}{B6}$, "midrail" was left out of guardrail. Guardrail will consist of top rail and midrail, Chapter IV, Section 3.e.(1) of the general rules. Also, "removable midrail chain" was left out of guardrail.
 7. Drawing Y-3, sheet 47 of 96, $\frac{AA}{Y3}$, "Manhole Steps" - I cannot find any specs on manhole steps other than in this view. There is an indication that the clearance behind the top rung is 3"; no specs on other treads or rungs. Chapter IV of the general rules, Section 7.c.(4), requires a clearance of not less than 7" from the center line of rungs, cleats or steps to the nearest permanent object.
 8. Drawing G-8, sheet 56 of 96, section $\frac{6}{B-13}$ at $\frac{G}{G5}$, guardrail height is 3' 2" typical. WOHS Rules for General Industry, Chapter IV, Section 3.e.(1), "Standard railing shall have a vertical height of 42" nominal from the upper surface of the top rail to floor, platform, runway or ramp level.
 9. Drawing G-17, sheet 65 of 96 - No indication of eyewash or safety shower. WOHS general rules, Chapter XI, Section 1.c., "Where the eyes or body may be exposed to injurious corrosive materials (in this case chlorine) suitable facilities for quick drenching of the eyes and body shall be provided within the work area for immediate emergency use."

It is not always possible to identify all potential hazardous conditions by reviewing a set of blueprints; however, I believe I have identified all areas which conflict with the Wyoming Occupational Health and Safety Rules and Regulations for General Industry.

If you have any questions, don't hesitate to call me.

Sincerely,


Joseph J. Borghi, Manager
Technical Assistance Division

JJB:ec



STATE OF WYOMING

*Completed
7-24-86*

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Joseph Borghi, Wyoming Occupational Health and Safety

FROM: *AE* Alan Edwards, Engineering/Grants Evaluator

DATE: July 14, 1986

SUBJECT: Cheyenne, Wyoming, Dry Creek Wastewater Plant Improvements, EPA Grant No. C560243-31, Wyoming Reference No. 85-608RR

This office has been reviewing a set of plans and specifications submitted for the subject project. One set is forwarded herewith. We would appreciate your review of the plans and specifications and any comments you may have. If you have any questions, please contact me at extension 6351. Thank you.

pjb

EXHIBIT B
 WYOMING WATER QUALITY DIVISION
 CONSTRUCTION GRANTS PROGRAM
 SPECIFICATIONS CHECKLIST

PROJECT NAME Chey Dry Creek Upgrade & Expansion PROJECT NO. C20243
 REVIEWER J. Playak DATE 8/12/86

YES
 (Page No.) NO
 (Explain)

Statements for Bid Advertisement:

- | | | |
|---|---------------|--|
| 1. Executive orders 11246 as amended, 11458, 11518, and 11625 | <u>(I-3)</u> | |
| 2. 40 CFR 33.240, relating to MBE, WBE, SB and LSAB | <u>✓(I-2)</u> | |
| 3. Female and minority utilization goals | <u>✓(I-3)</u> | |

Proposal (bid form) Statement:

- | | | |
|--|-------------|--|
| 1. 40 CFR Part 8 | <u>BF-3</u> | |
| 2. 40 CFR Part 60-1 and 60-4 | <u>BF-3</u> | |
| 3. Time of completion stated: | | |
| a. Number of days <u>820</u> | <u>BF-3</u> | |
| b. Date <u>Commencement of Contract time</u> | <u>BF-3</u> | |

Bonding:

- | | | |
|---------------------------------|-------------------|--|
| 1. 5 percent bid bond or equal | <u>I-2 (106C)</u> | |
| 2. 100 percent performance bond | <u>I-2 (106C)</u> | |
| 3. 100 percent payment bond | <u>I-2 (106C)</u> | <small>amount of bond met page given. - Covered SC-3</small> |

Insurance:

- | | | |
|-------------------------------|-------------|--|
| 1. Workmen's compensation | <u>SC-3</u> | |
| 2. Public liability | <u>SC-4</u> | |
| 3. Property damage | <u>SC-4</u> | |
| 4. Fire and extended coverage | <u>SC-4</u> | |
| 5. Flood insurance | <u>SC-5</u> | |

YES
(Page No.)

NO
(Explain)

Other Requirements:

- | | | |
|--|-----------------------------|-----------------------------|
| 1. Materials testing | <u>GC-18</u> | <u> </u> |
| 2. Treatment during construction | <u>N/A</u> | <u> </u> |
| 3. Handicapped access. Are non operating areas of wastewater treatment plans designed in accordance with the 1980 American National Standard Specifications for Making Buildings and Facilities Accessible to and Useable by the Physically Handicapped? | <u>N/A</u> | <u> </u> |
| 4. Latest applicable wage determination | <u> </u> | <u>✓ info not incl</u> |
| 5. In Attachment A below, is geographical area described? | <u> </u> | <u>✓ info not incl</u> |
| 6. In Attachment A below, are minority and female workforce employment goals stated? | <u> </u> | <u>✓ " " "</u> |

Attachments:

- | | | |
|--|-----------------------------|----------------------------------|
| 1. (A) Nondiscrimination in Employment | <u>1</u> | <u> </u> |
| 2. (B) Labor Standards and Requirements | <u>11</u> | <u> </u> |
| 3. (C) Labor Standards Provision for Federally assisted const. contracts (EPA Form 5720-4) | <u>13</u> | <u> </u> |
| 4. (D) Notice to Labor Unions | <u>17</u> | <u> </u> |
| 5. (E) Elimination of Segregated Facilities | <u>18</u> | <u> </u> |
| 6. (F) Occupational Safety and Health Act of 1970 | <u> </u> | <u>wrong info
19 in spec</u> |
| 7. (G) Project sign details | <u>20</u> | <u> </u> |
| 8. (H) General information regarding contracts | <u>21</u> | <u> </u> |
| 9. (I) Wage Determinations | <u> </u> | <u>31 (not incl)</u> |
| 10. (J) Discovery of archaeological and other historical items | <u>32</u> | <u> </u> |
| 11. (K) Access | <u>K</u> | <u> </u> |
| 12. (L) Construction site erosion | <u>34</u> | <u> </u> |
| 13. (M) Buy American requirements | <u>35</u> | <u> </u> |

	YES (Page No.)	NO (Explain)
14. (N) Interim guidance for MBE, WBE, SB, and LSAB requirements - 40 CFR 33.240	36	
15. (O) Protests	44	
Biddability:		
1. Reasonable bidding packages	✓	
2. Evaluation of bids clear and concise	✓	
3. Provision for construction schedule and breakdown from low bidder	✓	
4. Plan and specifications adequately define project	✓	✓ SEE ATTACHED
Constructability:		
1. Materials compatible	✓	
2. Errors, omissions or ambiguities	✓ SEE ATTACHED	
3. Any special limitations imposed by site?		✓
4. Specifications adequately relate to plans	✓	
5. Construction documents are compatible with generally accepted construction procedures and equipment	✓	
6. Electrical, mechanical and structural features certified by registered professional engineer		✓
7. Construction contracts:		
a. Any experience clauses (if so, are they acceptable?)	B-1 ✓	
b. Any contract preference clauses?		✓
c. Award to low responsible responsive bidder?	B-4	

WY permit no. 85-608

Patti,

I reviewed our files and my diary regarding conversations with the City of Cheyenne of Dry Creek plans and Specifications.

I met w/ Carroll Arnold Cheyenne Board of Public Utilities on 8/5/86 and 8/13/86. Discussed status of DEQ review. Further review on hold until until we could proceed w/ grant application review.

Met w/ Carroll Arnold and Black & Veatch on September 5, 1986. Discussed the grant application and plans and specifications. They were informed at that meeting that we would complete the review and furnish them our comments. The I have been working on our comments over the last



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Joseph Borghi, Wyoming Occupational Health and Safety
FROM: *AE* Alan Edwards, Engineering/Grants Evaluator
DATE: July 14, 1986
SUBJECT: Cheyenne, Wyoming, Dry Creek Wastewater Plant Improvements, EPA Grant No. C560243-31, Wyoming Reference No. 85-608RR

This office has been reviewing a set of plans and specifications submitted for the subject project. One set is forwarded herewith. We would appreciate your review of the plans and specifications and any comments you may have. If you have any questions, please contact me at extension 6351. Thank you.

pjb

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-609R

Stauffer Chemical Groundwater Interceptor No. 3
(Name of Facility)

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

Stauffer Chemical Company

P.O. Box 513

Green River, WY 82935

to construct, install, or modify a groundwater interceptor system no. 3 to
the tailings disposal facility

facility according to the procedures and conditions of the
application No. 85-609R. The facility is located in

Sec. 23, T20N, R109W

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 dur-

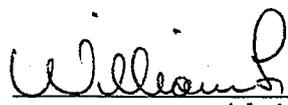
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

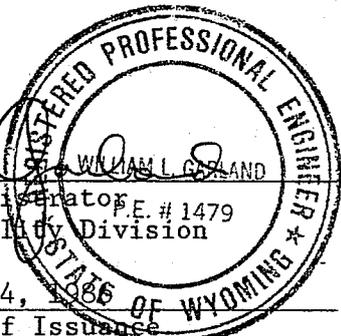
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

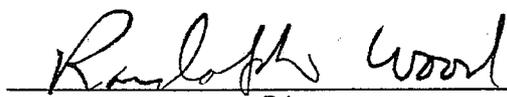
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator P.E. # 1479
Water Quality Division
March 14, 1986
Date of Issuance





Director
Dept. of Environmental Quality

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

McEwan

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Stauffer Chemical Co.-Groundwater System 3
Interceptor Modifications

ENGINEER: Stauffer Chemical Co.
ATTN: Ron Smith
P.O. Box 513
Green River, WY 82935

OWNER: John S. McEwan
Stauffer Chemical Co.
P.O. Box 513
Green River, WY 82935

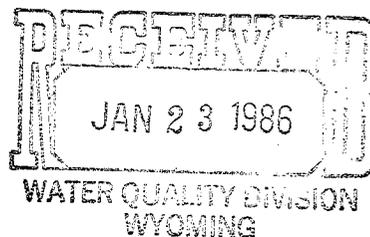
WATER QUALITY DIVISION REFERENCE NUMBER: 85-609

REVIEWING EVALUATOR: Jack Bedessem JB

DATE OF REVIEW: January 16, 1986

ACTION: Not authorized.

COMMENTS:



An initial review of your plans to modify the piping and pumps serving Groundwater Interceptor System 3 has been completed. As per our discussion, the following items need to be addressed and/or resolved:

1. A single 15 hp submersible pump is proposed to replace the two 5 hp pumps in the original sump design. Provide pump sizing information, cycle times, pump-head curves, flow rates, high/low level operation, etc.
2. A visual-light alarm system was observed on the sump pump station. Address whether the capability exists (and the availability) to utilize a portable generator for back-up in the event of a power failure.
3. In the original design the two 5 hp pumps were to be operated as high level, low level and back-up. Address the availability of a spare 15 hp submersible pump in the event of a breakdown.
4. The application for "Permit to Construct" forms were signed during our January 14, 1986 inspection.

C

Review of Plans & Specs.

Ref. No. 85-609

Page Two

5. Construction and material specifications describing the work which is to be performed should be included with this application.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. If you have any questions, please feel free to contact me.

JB/jw

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

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

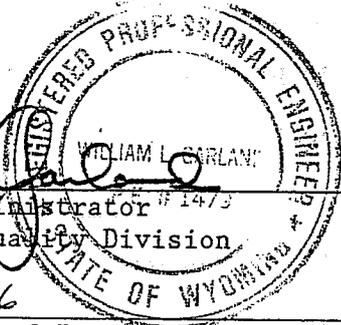
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
11-24-86

Date of Issuance





Director
Dept. of Environmental Quality

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



run file

Norma

Department of Environmental Quality

Water Quality Division

210 LINCOLN STREET

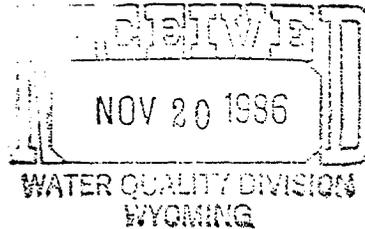
LANDER, WYOMING 82520

TELEPHONE 307-332-3144

October 6, 1986

CERTIFIED P 399 271 470

G.M. Stewart Corporation
ATTN: Mr. Gary M. Stewart
75 Yellow Creek Road
Evanston, WY 82930



RE: Sunridge Service Centre, Big Piney; WQD Reference No. 85-610 RRRR

Dear Mr. Stewart:

On September 29, 1986 Jack Bedessem of this office conducted an on-site inspection of the above referenced facility to verify the water meter readings supplied to us and the number of connections to the septic system. I have attached a copy of his inspection report to this letter.

The attached report details two items which were found to be contrary to the information supplied to us in your permit application. First of all, your water meter readings were found to be in error by a factor of ten. The average water consumption is 427 gpd, not 51 gpd as stated in your letter dated September 19, 1986. Also, your permit application indicated the disposal system was to service a convenience store and office/shop complex. What Mr. Bedessem found was that the system is actually serving the store plus three RV trailers and one mobile home.

With the discovery of this new information, it is obvious that your existing disposal system is inadequate to service the above referenced facilities. Therefore, in an effort to resolve this issue in good faith, please submit to this office within 45 days of receipt of this letter, a design for a proper wastewater disposal system. The plans must be signed/stamped by a Wyoming Professional Engineer and the system must be properly sized to service the store and all other facilities connected to it.

If the required action is not taken within the allotted time period, this case will be referred to the Wyoming Attorney General's office for resolution.

Sincerely,

Bill Locke, P.E.
Water Quality Engineer

BL/jw

Attachments

cc: Bert Reinow

Larry Robinson, DEQ/WQD, Cheyenne



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

May 16, 1986

G.M. Stewart Corporation
ATTN: Gary M. Stewart
75 Yellow Creek Road
Evanston, WY 82930

RE: Sunridge Convenience Store, Big Piney
WQD Reference No. 85-61ORRR

Dear Mr. Stewart:

I am in receipt of your letter dated April 28, 1986 regarding the above referenced facility. I think your suggestion of installing and monitoring a water meter on the Big Piney store is a good one. It will provide the necessary data to substantiate the adequacy of your system. Your request is therefore, acceptable to this department.

Sincerely,

A handwritten signature in cursive script that reads "Bill Locke".

Bill Locke, P.E.
Water Quality Engineer

BL/jw

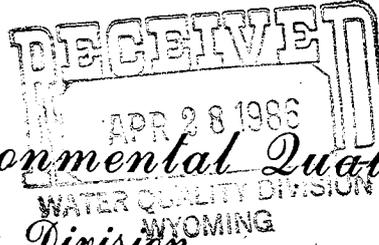
THE STATE



OF WYOMING

horma

ED HERSCHLER
GOVERNOR



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

April 24, 1986

CERTIFIED P 399 271 424

G.M. Stewart Corporation
ATTN: Gary M. Stewart
75 Yellow Creek Road
Evanston, WY 82930

RE: Sunridge Convenience Store, Big Piney
WQD Reference No. 85-610RR

Dear Mr. Stewart:

I am in receipt of your letter dated April 14, 1986 and the attached utility billing statements. There seems to be some confusion as to the actual consumption of your facility. The figures that appear as the meter reading on the invoice are actually in thousands of gallons. Therefore, the average I calculated for the ten billing periods submitted was 34,700 gallons per month. This equates to 1,157 gallons per day.

Using this figure, a septic tank with a minimum volume of 1,736 gallons would be required. For a percolation rate of 25 minutes/inch, the effective loading rate is 0.42 gallons/sq. ft./day. Therefore, the required absorption area would be 2,755 sq. ft. or 690 l.f. of existing trench.

Your existing system consisting of a 1,000 gallon septic tank and 172 l.f. (688 sq. ft.) of leachfield is therefore inadequate. In an effort to resolve this issue, within 30 days of receipt of this letter, please respond with a plan and schedule to update your system. Should you have any questions or comments, please contact Jack Bedessem or myself.

Sincerely,

Bill Locke, P.E.
Water Quality Engineer

BL/jw

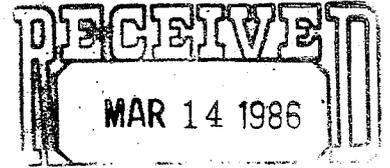
copy: Larry Robinson, DEQ/WQD, Cheyenne
Forsgren-Perkins Engineering

C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144



PROJECT: Sunrise Convenience Store

ENGINEER: Forsgren-Perkins Engineering
75 Yellow Creek Rd., Suite 302
Evanston, WY 82930

OWNER: G.M. Stewart Corporation
ATTN: Mr. Gary M. Stewart
P.O. Drawer 2180
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 85-610R

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: March 12, 1986

ACTION: Not authorized.

COMMENTS:

A second review of the above plans has been completed. The following item must be addressed before this system can be accepted as constructed:

1. The as-built information submitted indicates the size of the wastewater disposal system is inadequate. For an estimated flow of 4700 gpd. A 7050 gallon septic tank would be required for the 36 hour detention time. For a percolation rate of 25 min/inch the effective loading rate is 0.42 gallons/sq ft/day. Therefore, the required absorption area would be 11,190 sq. ft. or 2798 L.F. of the existing trench cross section.

In item No. 3 of your response letter, you state that the use of 10 gpd per vehicle is excessive and that well metering information could be provided. Please provide this additional information in an effort to support the sizing of the existing system.

2. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Sunrise Convenience Store

ENGINEER: Forsgren-Perkins Engineering
75 Yellow Creek Rd., Suite 302
Evanston, WY 82930

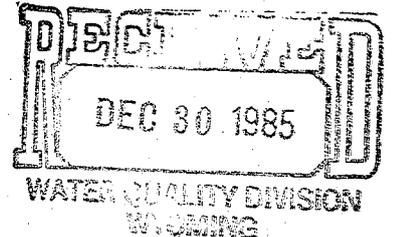
OWNER: G.M. Stewart Corporation
ATTN: Mr. Gary M. Stewart
P.O. Drawer 2180
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 85-610

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: December 26, 1985

ACTION: **Not authorized.**



COMMENTS:

A preliminary review of the above as-built information has been completed. The following items must be addressed before this system can be accepted as constructed:

1. An unsigned application form must accompany the as-built plans.
2. As-built plans must be signed or stamped by the Professional Engineer.
3. An estimate of the actual peak flow should be included with this package.
4. Isolation distances to wells, property lines, water lines and bodies of water should be indicated on the plans.
5. Absorption systems shall not be located beneath buildings, parking lots, roadways or other similarly compacted areas. Please clarify that this is the case.
6. A specification for the pipe material should be identified.
7. What is the spacing of the clean-outs?
8. Details and specifications for the septic tank should be included.
9. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw

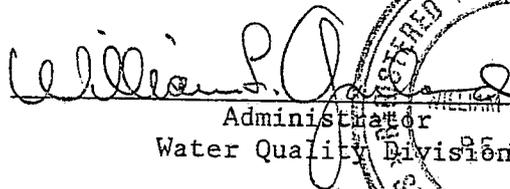
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

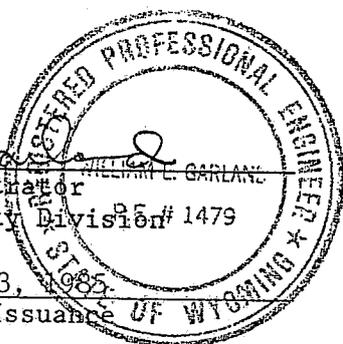
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

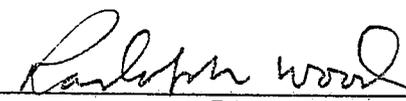
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administator for
Water Quality Division # 1479
December 23, 1985
Date of Issuance





Director
Dept. of Environmental Quality

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

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

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

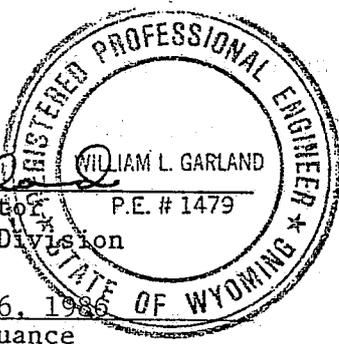
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:



Administrator
Water Quality Division


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

January 16, 1986
Date of Issuance



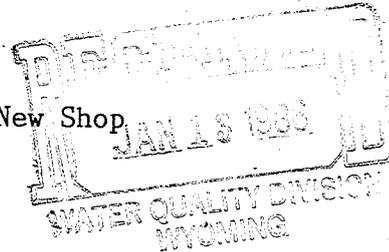
Director
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144



PROJECT: Wyoming Highway Department Port of Entry & New Shop

ENGINEER: Graham, Dietz & Associates
P.O. Box 338
Cody, WY 82414

OWNER: City of Cody
1338 Rumsey Avenue
Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 85-613

REVIEWING EVALUATOR: Jeff Hermansky

DATE OF REVIEW: January 9, 1986

ACTION: Not authorized.

COMMENTS:

This office has completed a review of your application and we have the following questions and comments to offer:

1. Why is the City of Cody listed as the applicant? Isn't the Wyoming Highway Department the owner of the facility and the land?
2. Is there a grease and grit trap between the washbay and the sewer system?
3. The regulations require that leachfield trenches have a minimum separation of three feet or a horizontal distance equal to 1.25 times the vertical depth of the trenches, whichever is greater. The proposed trenches seem to average about 6 feet in depth, thus requiring 7.5 feet separation between adjacent trench sidewalls.
4. If you are going to specify the use of a distribution box, please supply details of its construction and installation.
5. The septic tank inlet and outlet pipes must be either cast iron or schedule 40 PVC. Please note or show this on the plans.
6. I strongly recommend that the septic tank is located on the east side of Beacon Hill Road, as close to the building as possible. Potential problems with the sewer lines are greatly reduced when solids are not carried in the wastewater.

C

Review of Plans & Specs.

Ref. No. 85-613

Page Two.

7. I would like to note that leachfield lives can be greatly shortened when disposing of wastewater from washbays. Colloidal particles from the dirt off of vehicles will not settle out in the septic tank and will be carried to the leachfield where they will cause eventual clogging.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Please feel free to contact either Steve Gerber or me if you have any questions.

JH/jw

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 85-613

Date Submitted For Review 12/27/85

Name and Location of Facility Wyoming Highway Dept.
Port of Entry + Shop
Cody, WY
Park County

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

- No Comment. The submittal is consistent with current ground-water protection procedures and requirements.
- Comments attached.

Signed [Signature]
Title Eng. Eval
Date 1/3/86

Approved 1/6/86
(Date)

[Signature]
(Signed)
Groundwater Control Supervisor

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-614

WASHINGTON PARK TO GRAY ADDITION WATER MAIN EXTENSION
 (Name of Facility)

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

City of Newcastle

P.O. Box 727

Newcastle, Wyoming 82701

to construct, install, or modify a water main extension facility according to the procedures and conditions of the application No. 85-614. The facility is located in Section 28, T.45N., R.61W., in the County of Weston, in the State of Wyoming.

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

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

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

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

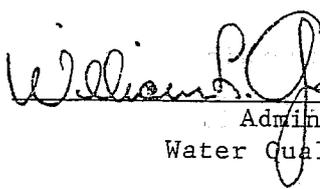
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

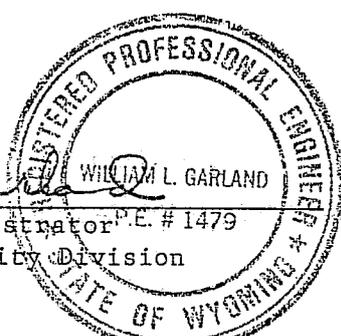
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, Sheridan, Wyoming 82801; telephone, 672-6457.

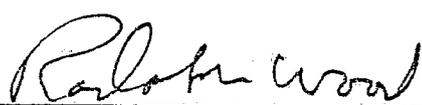
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


Administrator P.E. # 1479
Water Quality Division




Director
Department of Environmental Quality

January 14, 1986

Date of Issuance

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

xc: Lawrence T. Price
City Engineer
P.O. Box 447
Newcastle, WY 82701

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-615R
 SEE CONDITIONS ON BACK
 MA 14542

North Park Transportation Co.
 (Name of Facility)

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

North Park Transportation Co.
5150 Columbine
Denver, CO 80216

to construct, install, or modify a commercial subsurface wastewater treatment and disposal facility according to the procedures and conditions of the application No. 85-615R. The facility is located in Southeast Corner of Fox Farm Road and South College Drive, S10, 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.

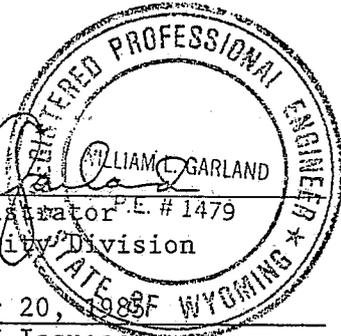
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

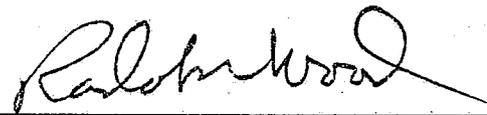
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:


William L. Garland
Administrator P.E. # 1479
Water Quality Division
December 20, 1985
Date of Issuance


Director
Dept. of Environmental Quality

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

Conditions to Permit to Construct #85-615R

1. 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 201 Facilities Plan Final Report: City of Cheyenne, South Cheyenne Water and Sewer District and Laramie County 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.
 2. The permittee shall notify Don Pack, Laramie County Environmental Health, 1700 Snyder Avenue, Cheyenne, Wyoming 82001, phone number 638-8545, of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.
- cc: D. M. Hopkins, D.M. Hopkins & Assoc., 216 E. 17th St., Cheyenne, WY 82001
Foose Construction, 280 North American Rd., Cheyenne, WY 82007

12-20-85

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: North Park Transportation Co., Laramie Co.

ARCHITECT OR ENGINEER: Don Hopkins, D.M. Hopkins & Associates
216 E. 17th St., Cheyenne, WY 82001

APPLICANT: North Park Transportation Co.
5150 Columbine, Denver, CO 80216

WATER QUALITY DIVISION REFERENCE NUMBER: 85-615

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

DATE OF REVIEW: December 19, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Since this area is in the Cheyenne '201' wastewater management area, an exemption from connecting to the regional sewer system is required. This exemption is obtained from the City planning office.
2. The regulations require that the flow estimates be based on the number of employees. What is the estimated maximum number of employees?
3. A replacement area for the drainfield must be designated on the plans.

3-11-86

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 5, 1986

Mr. Leonard Hall
Assistant Superintendent
Albany County School District No. 1
1948 Grand Avenue
Laramie, WY 82070

RE: Permit GPC 85-616, Linford School Drainage Well, Albany County,
Wyoming

Dear Mr. Hall:

Enclosed are two copies of permit GPC 85-616 for the Linford School drainage well located in the NE1/4 SW1/4 of Section 31, T16N, R73W in Albany County, Wyoming. Please note that prior to the drainage well becoming operational and no longer than 90 days following permit issuance, the following information must be submitted to the Water Quality Division:

1. Background groundwater quality information from the Linford School drainage well and two private wells. Complete identification of the two private wells used for sampling shall also be provided.
2. A potentiometric map showing the direction of groundwater movement with a compilation of water level data used to contour the map.
3. A map and list showing the locations of all domestic wells within the area of review.

After reviewing this information, the Water Quality Division may require one or more additional domestic wells to be included in the groundwater monitoring program.

Also enclosed are three copies of Form GPC 7. A copy of this form must accompany any written report required by the permit. You may reproduce the form if you wish.

Note Item F.4, Environmental Monitoring Program for Groundwaters of the State.

The permittee shall keep the manhole (vault) for the drainage well free of debris and sediment so that runoff can freely enter the drainage well.

Periodic maintenance records for the drainage well will be kept by the permittee. Included in those records will be water levels in the well; depth of sediment and debris in the manhole (vault); visual observations on the

Mr. Leonard Hall
March 5, 1986
Page 2

condition of the well and the surrounding area on the surface; and visual observations of damage to the facilities. Copies of all records will be submitted annually to the Water Quality Division.

The Linford School drainage well and two nearby private wells identified by the permittee's consultant to be downgradient of the drainage well will be sampled and analyzed to define pre-operational water quality, and once annually thereafter to identify quality changes which may be due to an influx of runoff water. Parameters for analyses include, at a minimum: static water level, total dissolved solids, sulfate, chloride, sodium, oil and grease, pH and nitrate-nitrogen. This abbreviated list may be expanded if deemed necessary by the Water Quality Division. All analytical results from the post-operational samplings will be submitted to the Water Quality Division as a part of the annual report.

If the sampling results indicate that water quality degradation is occurring in the alluvial aquifer, the drainage well must be properly plugged and abandoned immediately upon notification by the Water Quality Division.

Note Item I.11., Records and Reports. Annual reports shall be submitted to the Water Quality Division within 30 days following the anniversary date of the permit.

Note Item L., Abandonment.

Abandonment procedures will be implemented on the discontinuance of the well or on the termination of the useful operation of the well. The well shall be abandoned in accordance with the standards included in Chapter XI, Part G of the Water Quality Division Rules and Regulations. A report documenting the abandonment will be submitted to the Water Quality Division

Note Item O., Special Measures the Director Finds Necessary. In the event of an unauthorized discharge, the permittee will take immediate corrective action.

Please contact this office if you have any questions concerning the permit or this letter.

Sincerely,



William L. Garland
Administrator

WLG/TW/nc
Enclosures

cc: Keith Thompson, Western Water Consultants, P.O. Box 4128, Laramie, WY 82071
A. J. Mancini, Groundwater Control Supervisor

Running File

DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE OF WYOMING
GROUNDWATER POLLUTION CONTROL PERMIT
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS
(Permit to Inject)

(X) New

Permit Number:

() Modified

GPC 85-616
UIC Class V

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations Chapter IX (September 4, 1980),

Albany County School District No. 1
1948 Grand Avenue
Laramie, WY 82070

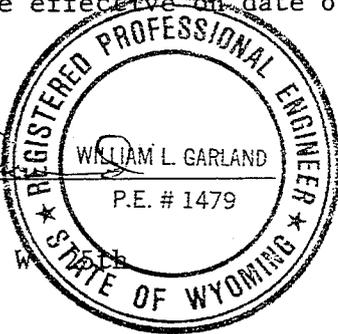
is authorized to operate

Linford School drainage well located in the NE1/4 SW1/4 of Section 31,
T16N, R73W in Albany County, Wyoming

according to procedures and conditions of the application GPC 85-616 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

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



2-24-86
Date

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

2-25-86
Date

A. Discharge (Injection) Zone and Area of Review

The discharge zone is limited to the drainage well designated in the application and to the 5 foot interval of slotted well screen located at approximately 12 feet to 17 feet below the ground surface. The discharge zone is in the alluvial aquifer of the Laramie River and the area of review extends throughout that part of the aquifer affected by the discharge, and at a minimum within 1/4 mile radius of the drainage well.

B. Groundwater Classification

Based on the existing use of the alluvial aquifer as a domestic water supply within the area of review, the groundwater is Class I.

C. Authorized Operations

The permittee is authorized to discharge storm water runoff from precipitation and snowmelt over a 2.2 acre school lot in West Laramie as shown in the application, as a miscellaneous discharge to underground water.

This permit does not authorize the discharge of any waste into the drainage well. No other use for or by the drainage well is authorized by this permit.

D. Proper Operation and Maintenance

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

The permittee is required at all times to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve permit compliance. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training and adequate laboratory and process controls, including appropriate quality assurance procedures.

The subsurface discharge (injection) authorized by permit shall be consistent with the conditions and content of the permit; any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued.

E. Entry and Inspection

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

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

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

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.
3. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The name(s) of individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. Names of individuals who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
4. The prescribed program for this permitted activity is as follows:

The permittee shall keep the manhole (vault) for the drainage well free of debris and sediment so that runoff can freely enter the drainage well.

Periodic maintenance records for the drainage well will be kept by the permittee. Included in those records will be water levels in the well; depth of sediment and debris in the manhole (vault); visual observations on the condition of the well and the surrounding area on the surface; and visual observations of damage to the facilities. Copies of all records will be submitted annually to the Water Quality Division.

The Linford School drainage well and two nearby private wells identified by the permittee's consultant to be downgradient of the drainage well will be sampled and analyzed to define

pre-operational water quality, and once annually thereafter to identify quality changes which may be due to an influx of runoff water. Parameters for analyses include, at a minimum: static water level, total dissolved solids, sulfate, chloride, sodium, oil and grease, pH and nitrate-nitrogen. This abbreviated list may be expanded if deemed necessary by the Water Quality Division. All analytical results from the post-operational samplings will be submitted to the Water Quality Division as a part of the annual report.

Prior to the drainage well becoming operational and no longer than 90 days following permit issuance, the following information will be submitted to the Water Quality Division:

- a. Background groundwater quality information from the Linford School drainage well and the two private wells. Complete identification of the two private wells used for sampling shall also be provided.
- b. A potentiometric map showing the direction of groundwater movement with a compilation of the water level data used to contour the map.
- c. A map and list showing the locations of all domestic wells within the area of review.

After reviewing this additional information, the Water Quality Division may require one or more of the domestic wells to be included in the groundwater monitoring program.

If the sampling results indicate that water quality degradation is occurring in the alluvial aquifer, the drainage well must be properly plugged and abandoned immediately upon notification by the Water Quality Division.

G. Requirements for Monitoring the Discharge

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

These requirements are not applicable.

H. Test Procedures

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

I. Records and Reports

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

2. The permittee shall give notice to the Administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified elsewhere in the permit.
5. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable Groundwater of the State.
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable Groundwaters of the State.

A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.
8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Administrator, it shall promptly submit such facts or information.
9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The Administrator may require the owner/operator to deliver the records to the Administrator at the conclusion of the retention period.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a Groundwater Pollution Control Permit has been issued by the Department for the proposed operation, and:

- a. Well construction is complete and the permittee has submitted notice of completion of construction to the Administrator, and
- b. The Administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the Administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
- c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the Administrator.

Part 10 is not applicable to this permit, excepting that the subsurface discharge may not commence unless and until a groundwater pollution control permit has been issued.

11. Annual reports shall be submitted to the Administrator within 30 days following the anniversary date of the permit.

All reports shall be addressed to:

Department of Environmental Quality
Water Quality Division
Groundwater Section
Herschler Building, 4th Floor West
122 West 25th Street
Cheyenne, WY 82002

All reports shall be accompanied by a completed Form GPC 7.

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

J. Permit Actions

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

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

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

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

A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in the permittee's discharge, as may be ordered by the Council.

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

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

Not applicable.

K. Mechanical Integrity

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

Visual observations of the performance of the system and of the presence of sediment and debris in the manholes (vaults).

The operation (discharge) of any well or system will terminate immediately if mechanical integrity of the well or system fails and/or a leak or unauthorized fluid movement occurs. The discharge shall be discontinued until mechanical integrity has been restored and permission to continue the discharge has been obtained from the Administrator.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that the 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.

L. Abandonment

The permittee shall notify the Administrator at least 180 days before well abandonment. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the Director and follow the procedures prescribed by the Director for plugging and abandonment or the discontinuance of related activities:

Abandonment procedures will be implemented on the discontinuance of the well or on the termination of the useful operation of the well. The well shall be abandoned in accordance with the standards included in Chapter XI, Part G of the Water Quality Division Rules and Regulations. A report documenting the abandonment will be submitted to the Water Quality Division within 30 days following plugging and abandonment.

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the permit conditions;
3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;
4. Furnish to the Administrator within a reasonable time, any information which the Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the Administrator, upon request, copies of records required to be kept by this permit.

N. Financial Responsibility

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

Not applicable.

O. Special measures the Director finds necessary:

In the event of an unauthorized discharge, the permittee will take immediate corrective action.

P. Special permit conditions:

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

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

Q. Signatories Requirement

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

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

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

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

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

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

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

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

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

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

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

S. Permit Transfer

The owner/operator of record (permittee) is always responsible for permit compliance. A permit holder cannot transfer his permit without approval of the Department Director.

T. Responsibilities

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

U. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, 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.

V. Severability

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

1-20-86



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

January 16, 1986

STATE OF WYOMING PUBLIC NOTICE

PURPOSE OF PUBLIC NOTICE

THE PURPOSE OF THIS PUBLIC NOTICE IS TO INDICATE THE STATE OF WYOMING'S INTENTION TO ISSUE A GROUNDWATER POLLUTION CONTROL (SUBSURFACE INJECTION) PERMIT UNDER THE WYOMING ENVIRONMENTAL QUALITY ACT (35-11-101 ET. SEQ. WYOMING STATUTES 1957, CUMULATIVE SUPPLEMENT 1973), AND DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY RULES AND REGULATIONS CHAPTER IX (SEPTEMBER, 1980).

IT IS THE STATE OF WYOMING'S INTENTION TO ISSUE A GROUNDWATER POLLUTION CONTROL PERMIT:

APPLICANT INFORMATION

APPLICANT NAME:	Albany County School District No. 1
MAILING ADDRESS:	1948 Grand Avenue Laramie, WY 82070
FACILITY NAME & LOCATION:	Linford School drainage well, NE 1/4, SW 1/4, Section 31, T16N, R73W, Albany County, Wyoming
PERMIT NUMBER:	GPC 85-616

Albany County School District #1 intends to install a drainage well to discharge storm water runoff from precipitation and snowmelt over a 2.2 acre school lot in west Laramie, as a miscellaneous discharge to underground water. The storm water runoff will discharge into a 5 foot interval of slotted well screen at approximately 12 to 17 feet below the ground surface. The discharge zone is in the alluvial aquifer of the Laramie River.

Based on the existing use of the alluvial aquifer as a domestic water supply within the area of review, the groundwater has been designated as Class I.

PERMIT REQUIREMENTS

The proposed permit requires the permittee to keep maintenance records on the drainage well. Background groundwater samples must be collected before the drainage well is put into use and samples must be collected once annually thereafter from the

drainage well and several nearby domestic wells. In addition, prior to the drainage well becoming operational, information on the background groundwater quality, the groundwater flow direction and a map and list of all domestic wells within a one-quarter mile radius of the drainage well must be submitted to the Water Quality Division for review.

The permit is issued for the life of the operation but is reviewed at least once every five years and may be reviewed more frequently. If sampling results indicate that water quality degradation is occurring in the alluvial aquifer, the drainage well must be properly plugged and abandoned.

STATE TENTATIVE DETERMINATIONS

Tentative determinations have been made by the State of Wyoming relative to conditions to be imposed on the permit. These conditions will assure that usable groundwaters of the State and applicable provisions of State statutes and regulations will be protected.

PUBLIC COMMENTS

Public comments on the proposed operation, the groundwater classification, and the State's intent, are invited prior to February 21, 1986. Comments may be directed to the Wyoming Department of Environmental Quality, Water Quality Division, Groundwater Section, Herschler Building, 4 West, 122 West 25th, Cheyenne, Wyoming 82002. All comments received prior to February 21, 1986 will be considered.

Any interested person may request, in writing, prior to February 21, 1986, a public hearing. The request should indicate the interest of the requesting party and reasons why a hearing is warranted.

If a hearing is not warranted, the final permit will be issued at the end of the comment period.

ADDITIONAL INFORMATION

Additional information may be obtained upon request by calling the State of Wyoming, (307) 777-7781, or by writing to the aforementioned address.

The complete applications, draft permits, and related documents are available for review and inspection at the same aforementioned address.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-617
 Ref. No. 84-568RRR
 SEE CONDITIONS ON BACK
 MA 14542

Oilfield Disposal Service Pit #1
 (Name of Facility)

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

Oilfield Disposal Service, Inc.
Larry L. King
P.O. Box 668
Worland, WY 82401

to construct, install, or modify a groundwater monitor network facility according to the procedures and conditions of the application No. 85-617. The facility is located in SW1/4 Section 17, T47N, R89W in the County of Washakie, in the State of Wyoming.

This permit shall be effective for a period of one (1) year (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.

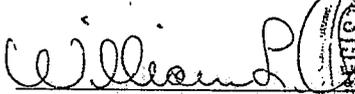
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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: Groundwater Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

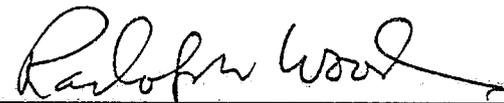
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


WILLIAM L. GARLAND
P.L.# 1473
Administrator
Water Quality Division
STATE OF WYOMING
REGISTERED PROFESSIONAL ENGINEER

January 2, 1986
Date of Issuance


Director
Dept. of Environmental Quality

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

Conditions to Permit to Construct #85-617

1. The following information should be submitted to the Water Quality Division 90 days after well completion:
 - a. Drilling logs.
 - b. Well completion details.
 - c. Well location information.
2. The monitor network will be inspected at least monthly for the presence of fluids. The Water Quality Division field office in Lander (phone number 332-3144) will be notified immediately when fluids are found in the monitor network.
3. Records will be maintained on the routine inspection of the monitor network. These records will include the:
 - Date and time
 - Name of inspector
 - Well number
 - Method of investigation
 - Description of condition of wells
 - Description of fluids in the well
 - Analytical results of samples
4. Sampling and analyses may be required in the event that fluids are found.
5. In the event that seepage from the pit is suspected, further investigation of the subsurface may be required, including the installation of wells.

cc: Stan Abell, Grosch Construction, 1000 Howell, Worland, WY 82401

1-2-86

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-618

MA 14542

Windmill Road/Sheridan Street Water Main Relocation
(Name of Facility)

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

City of Cheyenne

Board of Public Utilities

2100 Pioneer Avenue

Cheyenne, WY 82001

to construct, install, or modify a public water distribution facility according to the procedures and conditions of the application No. 85-618. The facility is located in Section 21, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

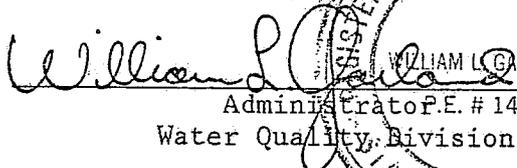
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

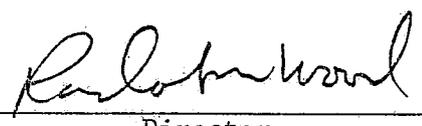
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
December 24, 1985
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, P.E.
1780 Westland Road
Cheyenne, WY 82001



Department of Environmental Quality
Water Quality Division

310 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 14, 1986

Bridger Coal Company
ATTN: Mr. Fred E. Parady, III
P.O. Box 2068
Rock Springs, WY 82902

RE: Sedimentation Pond JB-26, WQD Reference No. 85-619R

Dear Mr. Parady:

The plans and specifications for the above referenced facility have been reviewed by this office and found to be in compliance with the minimum design standards for the State of Wyoming. Because this facility has already been constructed, a permit to construct can not be issued. Therefore, would you please retain a copy of this letter as proof that this facility has been accepted by this department.

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

Sincerely,

A handwritten signature in cursive script that reads "Bill Locke".

Bill Locke, P.E.
Water Quality Engineer

BL/jw

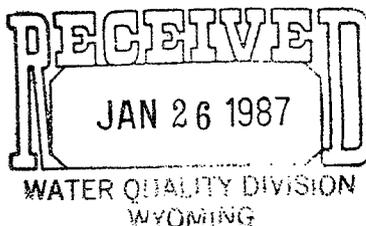
aba

85-
22-620R



THE STATE

OF WYOMING



Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

January 22, 1987

Mr. William Godby, Regional Engineer
U.S. Fish and Wildlife Service
P.O. Box 25486
Denver Federal Center
Denver, Colorado 80225

Dear Mr. Godby:

In December 1986, I compiled the data collected during our monthly sampling of the domestic wastewater treatment facilities at the Ranch "A" Fish Technology Lab in Beulah, Wyoming. The data was analyzed to evaluate the leach field sizing, as agreed during my inspection on March 5, 1986. A copy of my report is enclosed. I apologize for not including you in the original distribution.

The analysis showed that the leach field sizing is adequate if proper operation and maintenance of the package treatment plant is performed so that a consistent, quality effluent is achieved. I stressed this point to the Wyoming Game and Fish Department and was delaying my approval of the system pending their enrollment in this Department's operator certification program. I have recently received notification that Mr. Glenn Ford of the Wyoming Game and Fish Department has been assigned the responsibility of plant operation and that appropriate steps have been made to get him certified.

This letter, therefore, serves as notification of an As-Built Approval for the wastewater treatment facilities at Ranch "A". It should be noted that this approval does not guarantee that the facility will continue to operate properly or that leach field failure will not occur. It simply provides that the design of the system has been reviewed by our Department and meets the minimum design requirements outlined in our regulations. Since the facility is already constructed, an actual Permit to Construct cannot be issued. This letter provides the same function, however, and should be retained in your records as this Department's approval of the system.

Mr. William Godby
January 22, 1987
Page Two

In addition, this letter serves as notification that the violation for construction without a permit, as documented in my December 9, 1985 letter, has been resolved and that no further action will be taken.

The domestic wastewater treatment facilities at Ranch "A" will be included in the Water Quality's annual operation and maintenance inspections to insure proper long-term care of the plant.

Please feel free to contact me if you have any questions or comments.

Sincerely,



Susan Fields
Environmental Engineer

SF:ls

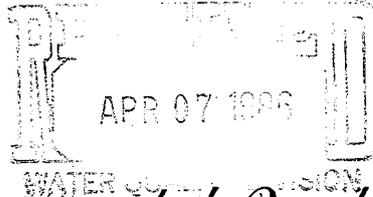
Enclosures

xc: Steve Facciani, Game & Fish
Ralph Garbutt, Game and Fish
Larry Robinson, WQD
John Wagner, WQD

NORMA



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

MEMORANDUM

TO: Beulah Fish Technology Lab File
 As-Built Review Files, Ref. No. 85-620
 Ken Fox, U.S. Fish and Wildlife Service
 Ray Phillips, U.S. Fish and Wildlife Service
 Ralph Garbutt, Wyoming Game and Fish, Casper
 Steve Facciani, Wyoming Game and Fish, Cheyenne
 John Wagner, Wyoming WQD/DEQ
 James Martin, South Dakota School of Mines

FROM: Susan Fields, Environmental Engineer

DATE: March 24, 1986

SUBJECT: Operability Inspection of Wastewater Treatment
 Facilities at Beulah Fish Technology Lab.

On March 5, 1986, I met with personnel of interested parties at the subject site. Present were Ray Phillips, Greg Kindschi and Ken Fox of U.S. Fish and Wildlife, Ralph Garbutt of Wyoming Game and Fish, Jim Martin of the South Dakota School of Mines, and myself. The inspection was requested by U.S. Fish and Wildlife as a means of clarifying some questions raised by DEQ during the As-Built Approval Review of the existing wastewater treatment facilities. The primary objective was to evaluate the level of treatment available by the package treatment plant, and to reevaluate the leach field sizing requirements based on the effluent quality from the plant.

Existing literature provides some justification for size reduction of a leach field if sewage effluent quality is good. The parameters evaluated in considering leach field size reduction are biological oxygen demand (BOD), total suspended solids (TSS), and dissolved oxygen (DO) of the effluent. The lower the BOD and TSS and the higher the DO, the less leaching area that is required. Under proper operating conditions, a package treatment plant like the one installed should significantly improve the effluent quality for these parameters and, therefore, reduce the leaching area required.

Wastewater Treatment Facilities
Beulah Fish Technology Lab
March 24, 1986
Page Two

Proper evaluation of the leaching area cannot be performed, however, because the quality of the plant effluent is unknown. This office intends to conduct monthly monitoring of the plant effluent in order to establish the data required to conduct the evaluation. Samples will be taken from the existing septic tank/distribution box just before the flows enter the leach field. The samples will be analyzed for BOD, TSS, DO and ammonia. Sampling will be performed March through August, 1986, as a minimum, and be continued indefinitely if the results justify further testing.

The most significant variable in the entire system, however, is the level of operation and maintenance of the package treatment plant. These facilities require daily attention and routine maintenance in order to obtain a quality effluent. It does not appear that the facility has been given the proper care which may have contributed to past failure of leach fields. I have included as an appendix to this memo a summary of the process theory for your extended aeration plant, a summary of operational procedures, a check list for monitoring activities and a trouble shooting guide for possible plant upsets. Some of this information may not apply specifically to this facility as it is very general in nature. It is intended to offer a guideline as to the nature of operation and maintenance required for package plants.

I believe the biggest problem with this plant is the large variation of flow rates. The plant controls must be adjusted accordingly for these variations. Package plants do not operate themselves and someone at the facility should become intimately familiar with the plant and be charged with the responsibility of operation and maintenance. I would recommend that such personnel attend wastewater treatment seminars to obtain complete training and information. Paul O'Leary in our Cheyenne office is responsible for wastewater treatment plant operator certification throughout the state. He can provide information on seminars, locations, costs, etc. He can be reached at 307/777-7093.

This specific plant must be thoroughly understood, however, before proper operation can be achieved. I am, therefore, recommending a plant overhaul by the designated operator. This work should include draining the plant in order to examine and clean the equipment, inspect for deterioration and replace or repair any defective equipment. This work would also provide clarification to some of the operational questions about the plant. I am particularly concerned about the following:

Wastewater Treatment Facilities
Beulah Fish Technology Lab
March 24, 1986
Page Three

- 1) Whether chambers 6 and 7 as shown on Figure 1 really function as primary and secondary settling. The exact flow path and geometry of these chambers needs to be determined.
- 2) Whether the air lift pump is operating properly and if sludge return to the aeration chamber is possible. I suspect that the air supply line currently into chamber 7 should actually be connected to the air lift pump.
- 3) Since the chlorine contact chamber is not in use, whether it could be removed from the plant.

Personnel from this office can provide some assistance in an overhaul process and will want to inspect the plant when it is drained. If at all possible, this should be done before the flow increase expected this summer. I believe draining the facility to the existing leach field is feasible. The details of this work can be discussed when a schedule for the overhaul is established.

In summary, DEQ cannot issue an approval for this facility due to lack of information. I have, however, authorized continued operation of the facility contingent on three factors; 1) that sewage effluent quality is monitored to determine the level of treatment achieved (DEQ will provide this service, 2) that definite steps are taken to provide for a plant overhaul, and 3) that an operator is designated for the facility and that proper operation, maintenance and training activities are initiated.

I will maintain the information submitted thus far on file as As-Built Approval Application 85-620. Final approval will be considered when we have gathered enough data to evaluate the leach field size and when we have had enough time to evaluate operation and maintenance at the facility.



Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

January 29, 1986

85-620

Mr. William Godby, Regional Engineer
U.S. Fish and Wildlife Service
P.O. Box 25486
Denver Federal Center
Denver, Colorado 80225

Dear Mr. Godby:

This letter is in response to our telephone conversation on January 24, 1986, in which you requested reevaluation of the leach field size at the Beulah, Wyoming Fish Technology Lab, because of the treatment which occurs in the aeration chamber.

Please note Part D, Section 39(b)(i) and (ii) in Chapter XI of our regulations where the question of aerobic pretreatment is addressed. If U.S. Fish and Wildlife wishes to continue accepting domestic wastewater from the lodge, then (ii) will apply. (This section should read "four families or more." My apologies for this typo if it has caused any confusion.) The aeration unit must then comply with the design requirements of Part B in Chapter XI, which are quite extensive. I feel certain that most of the information required to verify compliance with Part B is nonexistent. It will, therefore, require a very thorough facility evaluation to determine if the requirements are met. A few questions that must be addressed are as follows:

- 1) Is the station supplied with standby power? It will be required.
- 2) Are the chambers equipped with high level alarms or plant upset alarms?
- 3) Can the system supply the required air to maintain a minimum of 2.0 mg/l dissolved oxygen during peak loading?
- 4) Is the tank sized for a three minute retention time at peak flow?
- 5) How is sludge or settled solids handled?

Mr. William Godby
January 29, 1986
Page Two

These are only a few of the general requirements that will have to be addressed if the lodge is to continue to be served.

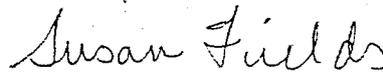
If you wish to pursue approval of the system including service to the lodge, DEQ can provide you with some technical assistance. I would be more than happy to meet with you on site to conduct a thorough inspection. We can also sample the effluent at the existing septic tank in order to evaluate the level of treatment that is being achieved.

As I understand the history of this facility, a package treatment system was abandoned in the past due to poor effluent quality and intensive maintenance problems. The approach discussed above may be a step backward in creating a similar situation. I also have serious questions as to whether the system is simply sized adequately for the large flow increase seen in the summer.

In summary, DEQ will not approve the existing system unless it can be shown that the aeration system can meet the requirements of Part B in Chapter XI. If the lodge can be served by a separate wastewater facility, the existing leach field is sized adequately and only general safety requirements for the aeration system and groundwater protection will need to be addressed.

Please feel free to contact me if you wish to discuss this matter further.

Sincerely,



Susan Fields
Environmental Engineer

SF:ls

xc: Steve Facciani
John Wagner

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVENUE, SUITE 601
SHERIDAN, WYOMING 82801

PROJECT: As-Built Approval for
U.S. Fish and Wildlife Service
Fish Technology Lab
Sanitary Facilities
Beulah, Crook County, Wyoming

ARCHITECT OR ENGINEER: William Godby, Regional Engineer
P.O. Box 25486
Denver Federal Center
Denver, Colorado 80225

WATER QUALITY DIVISION
REFERENCE NUMBER: 85-620

REVIEWING ENGINEER: Susan Fields *SF*

DATE OF REVIEW: January 10, 1986

ACTION: Not Authorized

COMMENTS:

- 1) From the information submitted, it appears that the percolation tests run were not in accordance with procedures outlined in Part D, Chapter XI of the Wyoming Water Quality Rules and Regulations. As a result, it is unclear what percolation rate is used for design. The numbers shown indicate a permeable soil which drains quickly. For my evaluation, I assumed a percolation rate of 1.0 min./in. More detailed information is necessary, however.
- 2) The loading rate of four gallons per square foot of absorption area used in your design is far beyond anything allowed by our regulations. Please refer to Figure 7, page 105 of Chapter XI. Use of this loading rate results in a leach field area that serves a demand substantially less than the 5,000 gal/day estimated demand. The maximum loading rate allowed is 0.8 gals/sq. ft./day.
- 3) I have serious concerns regarding groundwater depth in the area of the leach field. It is stated in your submittal that groundwater intrusion was occurring in the old leach field. Is the new field that much higher, that the same problem will not occur? More information about depth to groundwater is required. Again, please refer to Chapter XI for protection of groundwater regulations. Note that the groundwater mound imposed by the leach field must be estimated, and that a minimum of three feet is required between this mound and the bottom of the leach field.

Review of Plans and Specifications

U.S. Fish and Wildlife Service

Ref. Number: 85-620

January 10, 1985

Page Two

- 4) In general, the information submitted is not detailed enough to conduct a thorough review. I have, however, made a few assumptions regarding the soils and groundwater conditions on site and made a general evaluation of site suitability. Assuming a percolation rate of 1.0 min./in. and a corresponding loading rate of 0.8 gal/sq. ft./day, the existing system can provide adequate service for 10 - 15 permanent residents. It is unreasonable to expect this system to serve the large influx of students that occupy the lodge during the summer months. I also question whether the site is generally suitable to serve the large seasonal demands by a septic and leach field system. It may be more feasible to evaluate serving the lodge with a total containment lagoon and reserve use of the present system for permanent personnel. Even if a lagoon system for the lodge is implemented, more information, as requested above, must be submitted before the existing system can be approved.

Please feel free to contact me if you wish to discuss this review or have any questions or comments.

xc: Steve Facciani, Wyoming Game and Fish
John Wagner, DEQ, Cheyenne Office

PERMIT TO CONSTRUCT

- [] New
[] Renewal
[X] Modified

Permit No. 85-621R*
Reference No. 85-376RR

*SEE CONDITION

4-J SCHOOL WASTEWATER FACILITY
(Name of Facility)

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

Campbell County School District No. 1

1000 West 8th Street

Gillette, Wyoming 82716

to construct, install, or modify a septic tank and leach field wastewater disposal system facility according to the procedures and conditions of the application No. 85-621R. The facility is located in Section 15, T.46N., R.74W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

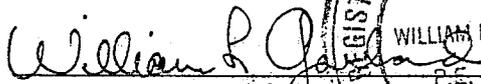
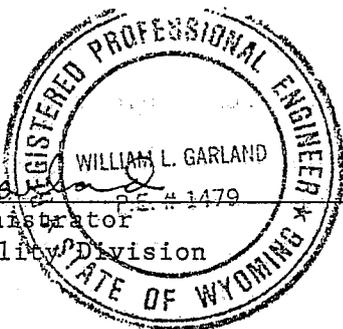
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

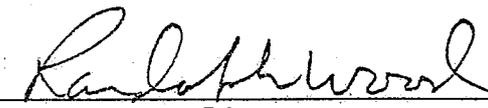
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, Sheridan, Wyoming 82801; telephone, 672-6457.

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

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

AUTHORIZED BY:


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



Director
Department of Environmental Quality

January 31, 1986
Date of Issuance

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

CONDITION

The 4000 gallon septic tank and 3375 ft² leach field can adequately treat a wastewater flow of 2700 gpd. Consequently, only 60 students and three teacherages will be allowed to be served by the system. When the population of the school increases above 60 students, the applicant shall apply for a permit to modify the septic and leach field system.

xc: Rundquist & Hard, Architects
108 E. 5th
Gillette, WY 82716

Kenneth L. Schmidt
Design 3 Sheridan
524 Sumner
Sheridan, WY 82801

rf



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Rich Ruyle, Engineering Evaluator
FROM: Tim Holbrook, Groundwater Engineering Evaluator *TH*
DATE: January 21, 1986
SUBJECT: 4-J School wastewater facility

Review of the submitted plans has generated the following comments:

1. It is not clear what depth the perforated pipes will be placed in the leach field.
2. Locations of nearby wells are needed.
3. Clarification of present and future flow rates is needed. I agree that condition on the permit could be necessary to limit use to current demand.

A permit for this facility cannot be granted until the above comments are addressed.

pjb

cc: 85-621 file

WATER QUALITY DIVISION
GROUNDWATER SECTION
- PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-671

DATE SUBMITTED FOR REVIEW 1/21/86

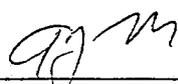
NAME AND LOCATION OF FACILITY 4-J School WW Facility
2830 South 4-J Road
Cambell Co wy

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 
TITLE Eng Eval
DATE 1/21/86

ACCEPTED FOR RECORD 1/21/86
(Date)


Groundwater Control Supervisor

NORMA

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 601
SHERIDAN, WYOMING 82801

PROJECT: 4-J School Wastewater Facility

ARCHITECT OR ENGINEER: Kenneth L. Schmidt
Design 3
524 Sumner
Sheridan, Wyoming 82801

WATER QUALITY DIVISION
REFERENCE NUMBER: 85-621

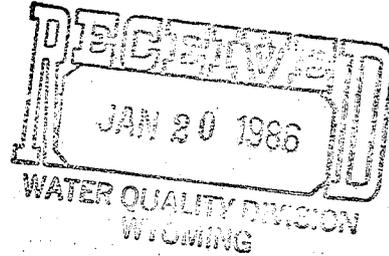
REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: January 14, 1985

ACTION: Not Authorized

COMMENTS:

- 1.) The wastewater loading rate used to design the system is greater than our regulations allow. For percolation rates from 1 - 5 min/in, the maximum allowable loading rate is 0.8 gal/ft²/day (Chapter XI, p. 105). This results in a required infiltration surface area of 3375 ft².
- 2.) I would suggest sizing the septic tank and leach field for the anticipated future flow of 108 students. If this is not done, the permit will be conditioned to allow flow to the system from just 60 students and the teacherages.





*Department of Environmental Quality
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

85-622

October 28, 1985

Harry Pettengill
U.S. Nuclear Regulatory Commission
Region IV, Uranium Recovery Field Office
Box 25325
Denver, CO 80225

Dear Mr. Pettengill:

In a letter dated September 30, 1985, Tom Hardgrove of Pathfinder Mines Corporation wrote to you concerning the installation of three additional monitor wells at the Lucky McMine. The proposed monitor wells will be constructed according to the standards of Chapter XI of the Water Quality Division Rules and Regulations. Therefore, a separate permit for the wells is not required by the Water Quality Division.

Sincerely,

Wells AL-4, AL-5, AL-6

Katherine J. Laudon

Katherine J. Laudon
Groundwater Engineering Evaluator

KJL/pjb

cc: A.J. Mancini, WQD
Tom Hardgrove, Pathfinder
Bill Kearney, DEQ

*This can be logged in
TSN*

*Supporting documentation is in Groundwater
files - per TSN.
PB Fremont Co.*