

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY / WATER QUALITY DIVISION

122 West 25th Street, Herschler Building 4 West, Cheyenne, Wyoming 82002

PROJECT: Prairie Wind Elementary School – Water System

ENGINEER: Erin M. Gates
BenchMark Engineers, P.C.
1920 Thomes Avenue, Suite 620
Cheyenne, WY 82001

APPLICANT: Jason Crowder
State of Wyoming Land Investment Board
122 West 25th Street
Cheyenne, WY 82001



WATER QUALITY DIVISION REFERENCE NUMBER: 13-451

REVIEWING ENGINEER: Todd D Hepworth

DATE OF REVIEW: November 6, 2013

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS

Engineering Design Report and Project Plans for construction

1. Engineering Design Report (EDR)

- a. Fire Flow – Since our telephone conversation earlier this week (11/5/2013), I have since spoken with the State Fire Marshal's Office (Bruce Erkiletian, Senior Fire Protection Engineer). Mr. Erkiletian indicated that the two 10,000 gallon tanks appear to meet his minimum requirements, however he indicated that we need to confirm that the local jurisdiction approves. Please provide this office that the fire protection district approves of the plans for meeting the Needed Fire Flow and for general layout.

This request is made pursuant to Chapter 12, Section 14, Paragraph b.iii of the Water Quality Rules and Regulations.

During my conversation with Mr. Erkiletian, we also noticed that the site plan does not appear to indicate an on-site hydrant, Fire Department Connection (FDC) or backflow on the fire line to protect the system from cross-contamination. Given that a fire tanker/pumper may bring untreated water, the domestic system will need to be protected from this possibility as well.

PROJECT: Prairie Wind Elementary School – Water System
DATE OF REVIEW: November 7, 2013

- b. It is noted that the EDR section 2.3 indicates that piping will be HDPE conforming to AWWA C901/C906. The cover sheet of the plans (Sheet C0.00) references AWWA C900 PVC. *Please clarify the intended material.*
- c. Section 2.4 of the EDR references specific disinfection equipment with a schematic diagram. *Please provide the corresponding mechanical / plumbing sheet* such that the configuration may be verified for both equipment and chemical storage requirements. Even though DEQ only requires a connection for chlorination equipment, since the report indicates that it will be used inside the building, further information is required (storage/handling) in the EDR.
- d. Per Section 8(g) of Chapter 12 of the Water Quality Rules & Regulations: the mechanical room shall meet OSHA safety requirements for the storage, handling and personal protection regarding the use of chlorine.
- e. *Please provide a hydraulic analysis for the water system indicating that the system meets the working pressure requirement of 35 psi and the fire flow pressure requirement of 20 psi.*

2. Plans

- a. *Please provide the site grading plan.* Since underground storage tanks will be provided, the grading plan will help us ensure that the tanks are adequately covered and protected from drainage swales and/or traffic (no vent pipes in playgrounds/sports fields, vehicles, etc.).
- b. I am looking for complete protection from irrigation use / fire protection use with the domestic consumption. If the mechanical / plumbing plan does not indicate complete protection, the Site Plan may require additional work to denote appropriate backflow prevention (with frost protection).
- c. Sheet C2.40 –
 - i. *Please ensure/note* that all vent pipes (including the radon vent) shall protected with *24 mesh corrosion resistant screening.*
 - ii. *Please provide either calculations that the tanks as constructed will be protected from buoyancy when empty (self weight) or on the plan sheet show appropriate anchorage / concrete deadman.* The note stating that “a deadman system is not anticipated” is not

PROJECT: Prairie Wind Elementary School – Water System
DATE OF REVIEW: November 7, 2013

sufficient without supporting calculations, especially given that the pipe profile view(s) appear to indicate drainage towards the tanks.

- iii. *Please fill in the question marks on the lower-right tank detail with appropriate values.*
- iv. *For your water valve signage detail, will the sign posts be placed in compacted native soil or will they use a concrete foundation?*

END OF REVIEW

TDH/rm/13-1077



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



new H. Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

January 21, 2014

State of Wyoming, Office of State Lands and Investments
Attn: Jason Crowder, Assistant Director
122 W 25th Street
Cheyenne, WY 82001

RE: Prairie Wind Elementary School, Laramie County School District No. 1
Application No. 13-451, Laramie County

Dear Mr. Crowder:

The above application for coverage under **General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems** consisting of installing two 10,000 gallon, one 6,000 gallon, and two 4,000 gallon water storage tanks, water service lines from wells to tanks, piping between tanks and school building, and all appurtenances located in the **East ½, Section 36, T15N, R67W, Laramie County**, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with **Chapter 12, Section 14** of the Water Quality Division Rules and Regulations, in accordance with the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in **Part V, Section O** of the general permit. Additionally, the following project specific conditions also apply:

1. Section 2665 E.6 – Water tight plugs/caps shall be maintained in all tank and pipe openings in a trench any time pipe laying is not in progress or the trench is unattended.
2. Due to the limited quantity of caustic materials (Sodium Hypochlorite) being stored onsite for disinfection, a waiver is granted to the requirements of Wyoming DEQ Rules and Regulations Chapter 12, Section 11.c.ii, which requires the provision of an emergency deluge shower.
3. A portable eyewash station meeting ANSI Z358.1 shall be installed within the pump/mechanical room to meet the requirements of Chapter 12, Section 11.c.ii for personnel protective equipment.

All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **January 21, 2019**.

This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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Please reference Application No. 13-451 in any future correspondence.

If you have any questions, please contact me at either todd.hepworth@wyo.gov or by phone at (307) 777-6183.

Sincerely,

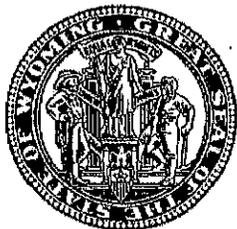


Todd D. Hepworth, P.E.
Assistant Southeast District Engineer
Water Quality Division

TDH/rm/14-0054

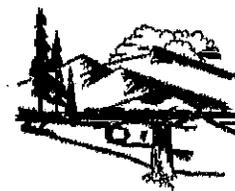
Enclosures: Certificate of Completion form

cc: IPS
Dennis Auker, Laramie County School District No. 1 2810 House Avenue, Cheyenne Wyoming 82001
Erin M. Gates, BenchMark Engineers, 1920 Thomes Avenue, Suite 620, Cheyenne, Wyoming, 82001



Department of Environmental Quality

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Matt Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

October 28, 2013

Larry Pardee, Public Works Director
Town of Jackson
150 East Pearl
Jackson, WY 83001

RE: START Bus Facility
DEQ Permt #13-452
Located in Park County, SW ¼, NE ¼ & SW ¼, NW ¼, S 33, T 41 N, R116 W

Dear Mr. Pardee,

This project consists of the installation re-routing of approximately 250 linear feet of 12 inch DIP water main and replacing approximately 1300 linear feet of 12 inch and 20 inch sewer main.

The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11 and Chapter 12 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package, and the General Permit to Construct, Install, Modify or Operate Extensions to or Modification to Existing Public Water Supply Distribution Systems and the General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Construction shall be completed by October 28, 2018

Your attention is directed to the attached Certificate of Completion form, which is to be submitted within 60 days of the completion of the aforementioned project.

These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact Hannes Stueckler at 307-335-6964 or James Brough at 307-335-6961.

Sincerely,

Hannes E. Stueckler, P.E.
Assistant Northwest District Engineer
Water Quality Division

xc: PDF to Cheyenne
Thomas Kirsten, P.E. , Jorgensen and Associates, P.O. Box 9550, Jackson, WY 83001

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • <http://deq.state.wy.us>

ABANDONED MINES
(307) 332-5085
FAX 332-7728

AIR QUALITY
(307) 332-6755
FAX 332-7726

LAND QUALITY
(307) 332-3047
FAX 332-7726

SOLID & HAZARDOUS WASTE
(307) 332-6924
FAX 332-7726

WATER QUALITY
(307) 332-3144
FAX 332-7726



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 13-453

North Bill Disposal
Commercial Oilfield Wastewater Disposal Facility
Phase 4 Expansion

This permit hereby authorizes the applicant:

North Bill Disposal
P.O. Box 403
Douglas, Wyoming 82633

to construct, install or modify two (2) additional evaporative pond cells for the disposal of oilfield exploration and production wastewater at an existing commercial oilfield wastewater disposal facility, according to the procedures and conditions of the application number 13-453. The facility is located in a portion of Section 1, Township 38 North, Range 71 West, in the county of Converse, in the State of Wyoming, The facility is located approximately 5.5 miles northwest of Bill, Wyoming. All construction, installation, or modification allowed by this permit shall be completed by January 1, 2018.

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

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

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

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

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

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

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

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

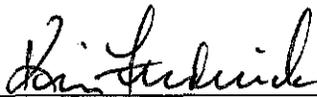
- 1 of 13 The applicant will notify the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, Phone 307-473-3465, FAX 307-473-3458 of the date construction will begin and the estimated completion date.
- 2 of 13 The applicant will provide the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, the name of the type and brand of the primary and secondary liner, the liner manufacturer(s), the liner installation contractor(s), and all other required documentation related to the liners, at least two weeks prior to beginning construction. The manufacturer(s) will need to submit recommended installation methods that include cold weather installation. At a minimum, installation should be conducted in accordance with "Cold Weather Seaming of Geomembranes", Geosynthetic Institute, GRI Test Method GM9 or a comparable method.
- 3 of 13 The applicant will provide immediate oral or written notice to the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, Phone 307-473-3465, FAX 307-473-3458, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 4 of 13 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided and must be completed filled out.
- 5 of 13 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".
- 6 of 13 This approval for Phase 4 expansion is only applicable to Ponds 5 and 6. Any additional expansion will require a new application (including a complete engineer design report) for a permit to construct. Site specific geology and soils information will be required for any additional expansions.
- 7 of 13 Additional groundwater monitoring wells will be installed prior to filling any ponds authorized by this permit to construct. Measurement of depth to groundwater and testing of groundwater is to be performed prior to filling any ponds at this facility.
- 8 of 13 Groundwater monitoring of additional wells will be conducted on a quarterly basis. Results will be reported to DEQ within a month after receiving laboratory analytical reports. Samples will be submitted for the following analysis:
- a) electrical conductivity
 - b) pH
 - c) chloride
 - d) sodium
 - e) alkalinity
 - f) sulfate
 - g) total dissolved solids
- The analyte list and monitoring frequency are subject to revision as needed by CBM / Oil and Gas Group, Water Quality Division. Groundwater monitoring will also include measurement of depth to groundwater and the preparation of a potentiometric surface map, to be included with the analytical data.
- 9 of 13 The leak detection system is to be checked weekly for the first month following filling of a pond and monthly thereafter with a log kept of the inspection results. As new ponds are constructed, the leak detection system is to be checked weekly for the first month. If fluid is found, the DEQ CBM / Oil and Gas Group is to be notified immediately, and samples are to be pulled from the inspection pipes and tested for total petroleum hydrocarbons, Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) by EPA Method 8015 (modified), chlorides, total dissolved solids (TDS) and sulfates. Results are to be reported to DEQ as soon as they are available. Testing requirements are subject to revision as needed.

- 10 of 13 Fluids in the ponds are to be checked annually for the following constituents. Each pond will be sampled and analyzed separately in accordance with the following list:
- a) electrical conductivity
 - b) pH
 - c) chloride
 - d) sodium
 - e) alkalinity
 - f) sulfate
 - g) barium
 - h) total dissolved solids

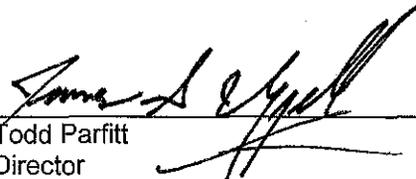
The results of the pond analyses are to be reported to DEQ within one month after receiving laboratory analytical reports. The analyte list and monitoring frequency are subject to revision by CBM / Oil and Gas Group, Water Quality Division.

- 11 of 13 The facility is authorized to receive oilfield exploration and production waste (production water, produced water, and frac water), exempt from RCRA regulations by EPA. Any other waste must be approved on a case by case basis by the DEQ and the owner. Prior to approval for disposal by DEQ/WQD, all other waste will be subject to rules, regulations, policies, and/or procedures related to hazardous waste determination and disposal, as issued or promulgated by DEQ/Solid and Hazardous Waste Division (SHWD).
- 12 of 13 The validity of this permit is subject to the owner maintaining a bond acceptable to the State of Wyoming, DEQ/WQD for the amount of the facility closure and post-closure costs. The bonding amount is subject to review on an annual basis. The bond amount may be "phased-in", in accordance to the facility construction. However, prior to construction of any pond, financial assurance must be in place which covers the next construction phase. This additional bonding must be acceptable to the State of Wyoming prior to any construction related to that phase.
- 13 of 13 An annual report will be submitted to DEQ CBM / Oil and Gas Group by April 1 of each year. The annual report will include relevant details of the construction, modification, and operation details of the facility from the previous year, any anticipated construction, modification and/or operational changes for the upcoming year. The report will include a discussion and analysis of the groundwater monitoring, leak detection monitoring and pond analysis. A listing of all non exploration and production wastes accepted by the facility will also be included in the annual report. This listing shall include generator, type of waste, amount and date of disposal. The annual report will also include a review of the closure and post closure requirements, including financial costs. A renewal of the bond will be required as part of the annual report. Reporting requirements are subject to modification by DEQ.

AUTHORIZED BY:



Kevin Frederick
Administrator
Water Quality Division



Todd Parfitt
Director
Department of Environmental Quality

Date of Issuance

12/30/13

KJM/rm/13-1223

cc: Jason L. Meyers, WLC Engineering, Surveying, and Planning, 200 Pronghorn, Casper, WY 82601

STATEMENT OF BASIS

1. Permit Number: **13-453**
2. Application reviewed for compliance with the following applicable regulations :
Chapters 3 and 11 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?
YES
4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.
 - a. The permit includes approval to deviate from the following regulatory requirements:
Not applicable
 - b. Briefly state the basis for the deviation.
Not applicable
 - c. Permit approval is based upon deviation from applicable regulations in accordance with approved policy statement.
Not applicable
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was required.
6. If Section 17 of Chapter 3 review is required, indicate the basis for determining groundwater will be protected.

The facility will not allow a discharge to groundwater.

The pond will have a primary liner of 60 mil high density polyethylene with a 50 mil high density polyethylene secondary liner. A compacted clay subgrade will be installed under the secondary liner. A leak detection system will be installed between the two liners. Groundwater monitoring wells will also be installed at the facility to monitor groundwater on a quarterly basis.

Quality of wastewater is such that it will not cause a violation of groundwater standards.

Not applicable

Existing soils or geology will not allow a discharge to groundwater.

Not applicable

The facility is designed and will be operated so that it will not to violate groundwater standards.

Not applicable

Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

Not applicable

If any groundwater quality standards are to be exceeded, briefly describe how any users of the affected aquifer will be protected. The description should include the water quality standard affected, the anticipated maximum concentration, the property boundaries, places of groundwater withdrawal and any other relevant information.

Not applicable

Briefly describe monitoring plan. The groundwater monitoring plan includes the monitoring wells or other sampling points, the parameters to be analyzed, the sampling frequency and reporting methods.

The leak detection system will be checked weekly for the first month after the ponds are filled. A log will be kept of the inspection results. The leak detection system is also monitored by a high level alarm system. If fluid is found, DEQ will be notified immediately.

Measurement of depth to groundwater and testing of groundwater is to be performed prior to filling any ponds at this facility. Groundwater monitoring will be conducted on a quarterly basis and results reported to DEQ within a month after receiving laboratory analytical reports.

Fluids in the pond are to be checked annually for constituents by collecting a sample from each pond in operation.

Operational concerns will be identified in an annual report to be submitted to DEQ by April 1 of each year. Any changes in operations, a discussion of groundwater monitoring, leak detection system operation, and pond characterization is to be included in the annual report.

The permit should clearly state the parameters to be utilized for determining compliance and what occurrences constitute a violation. The permit should identify the corrective actions to be taken in the event of a violation of a groundwater standard.

Documentation of Statement of Basis.

The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Kim Medina and Denis Lamb, CBM / Oil and Gas Group and completed on December 17, 2013. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



Department of Environmental Quality



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Matt Mead, Governor

Todd Parfitt, Director

November 4, 2013

13-454

Guy Beaudoin
5410 Bishop Blvd.
Cheyenne, WY 82009

APP
RETURNED

RE: Rock Springs Armory - Kitchen Upgrade - Permit to Construction Application

Dear Mr. Beaudoin:

The Wyoming Department of Environmental Quality Water Quality Division does not required a Permit to Construct for the construction of a Grease Trap and a 4-inch Sewer Service with sewage flows less than 2000 gallon per day. Your engineer Ron Rice was contacted and Ron indicated in an email that the maximum sewage flow would be 800 gallons per day. Three copies of the plans and specs, for the Rock Springs Armory Kitchen Upgrade are being returned to you. The specific information for the proposed project is as follows:

Facility Name: Rock Springs Armory - Kitchen Upgrade
DEQ/WQD Reference Number: #13-454
DEQ/WQD Approving Engineer: Mark Baron, P.E.
Date of DEQ/WQD Review: November 4, 2013

The construction, installation, or modification of any sewerage system, treatment works, disposal system including septic systems, or other facility capable of causing or contributing to pollution, or public water supply system including water mains, water wells, water services greater than 2-inch in diameter or other facilities without a Permit to Construct, is a violation of Wyoming State Statute 35-11-301.

If you have any questions regarding my review comments or this letter, please contact me at 307-335-6962.

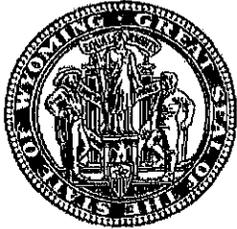
Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division
Enclosure: Permit Application Package 13-454

Ron Rice, P.E., Engineered Systems Associates, 315 West Center, Pocatello, ID 83204

PDF: IPS
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Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Matt Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

December 5, 2013

Jon Doak
Gunsight Properties, Inc
46 Reliance Road
Rock Springs, WY 82901

RE: Rock Springs - Gun Sight Estates Subdivision -Water & Sewer Mains - Permit Number 13-455, E 1/2, NE 1/4, Section 28, T19N, R105W, Sweetwater County

Dear Mr. Doak:

The above application for coverage under **General Permit to Construct** the extension of a **Public Water Supply System** consisting of about 4380 linear feet of 8-inch PVC water main and the extension of a **Sewage Collection System** consisting of about 2866 linear feet of 8-inch PVC sewer main to serve 40 residential lots in accordance with Chapter 3, Section 7, Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

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

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne
Shawn M. Arnoldi, P.E., Choice Engineering Services, 404 N. St., Ste. 201, Rock Springs, 82901

Page 1 of 1



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 13-456

Snake River Mobile Home Park Potable Water System
PWS #WY5600214

This permit hereby authorizes the applicant:

Alan Bybee
SSDA Partnership
P.O. Box 3393
Jackson, WY 83001

to replace a public drinking water system that serves a mobile home park with twenty-six trailers, according to the procedures and conditions of the application number 13-456. This project involves equipping two existing wells, installing surface water treatment system; including pressure media filters, 10-micron bag filters, 1-micron cartridge filters, UV units, and sodium hypochlorite injection; two 10,000-gallon storage tanks, distribution pumps, two bladder tanks, and new 4-inch water mains. The new well is within Section 14, T39N, R116W in the county of Teton, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by October 31, 2018.

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

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

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

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

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

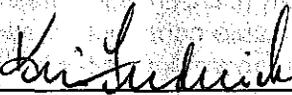
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

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

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

- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Northwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided and must be completely filled out.
- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


Kevin Frederick
Administrator
Water Quality Division


Todd Parfitt
Director
Department of Environmental Quality

12-24-13
Date of Issuance

JSB/rm/13-1211

STATEMENT OF BASIS

1. Permit Number: 13-456
2. Application reviewed for compliance with the following regulations:
Chapters 3 and 12 of the Wyoming Water Quality Rules and Regulations.
3. Does the permit comply with all applicable regulations identified above?
Yes.
4. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.
No.
5. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.
Public water supply wells are exempted from review by Chapter 3, Section 17
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by James S. Brough, james.brough@wyo.gov, Northwest District Engineer and completed on December 3, 2013. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents permit conditions, and the items identified in this "Statement of Basis."

cc: Zia Yasrobi, Y2 Consultants, Inc., P.O. Box 2674, Jackson, WY 83001



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matt Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

October 29, 2013

Shane Shoopman
174 W. North Street
Powell, WY 82435

RE: Shoopman Subdivision Sewer Line Extension, Permit Number: 13-457, Latitude 44.7467, Longitude -108.7523, Park County

Dear Mr. Shoopman:

This project involves the installation of 292 linear feet of 8-inch sewer main to serve five new subdivision lots. The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations and is hereby approved. DEQ also recognizes that the contractor must meet local requirements such as a 10-foot horizontal separation between individual water and sewer services lines.

You are authorized to construct the facilities in accordance with the general permits and materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit which can be downloaded from the Wyoming Department of Environmental Quality webpage at:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-335-6961.

Sincerely,

James Brough, P.E.
Northwest District Engineer
Water Quality Division

xc: Scott Lewis, Granite Engineering & Surveying, 741 North Day St., Powell, WY 82435
Sean Christensen, P.O. Box 1008, Powell, WY 82435
PDF to Cheyenne

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • <http://deq.state.wy.us>

ABANDONED MINES
(307) 332-5085
FAX 332-7726

AIR QUALITY
(307) 332-6765
FAX 332-7726

LAND QUALITY
(307) 332-3047
FAX 332-7726

SOLID & HAZARDOUS WASTE
(307) 332-6924
FAX 332-7726

WATER QUALITY
(307) 332-3144
FAX 332-7726



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 13-458

LARAMIE COUNTY PUBLIC WORKS REUSE OF TREATED WASTEWATER FROM THE
ARCHER COMPLEX
PWS WY5601646

This permit hereby authorizes the applicant:

Laramie County Public Works
Attn: Don Beard
13797 Prairie Center Circle
Cheyenne, WY, 82009

to construct, install or modify land application of Class A treated wastewater according to the procedures and conditions of the application number 13-458. The facility is located in SW 1/4 of Section 28, T14N R65W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed November 25, 2018.

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

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

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

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

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

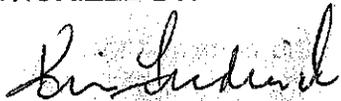
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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

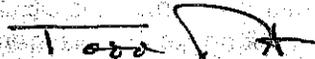
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1. The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7088, FAX 307-777-7610, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
2. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided and must be completely filled out.
3. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Kevin Frederick
Administrator
Water Quality Division



Todd Parfitt
Director
Department of Environmental Quality

Date of Issuance

12-5-13

STATEMENT OF BASIS

1. Permit Number: **13-458**
2. This application was reviewed for compliance with the applicable regulations ;
Chapters 3, 21
3. Does the permit comply with all applicable regulations identified above?
Yes
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.

Reuse of treated wastewater is exempted from review by Chapter 3, Section 17.
5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Seth Tourney, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on December 4, 2013. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 13-459

MATHENA

This permit hereby authorizes the applicant:

Russ Fleetwood
P.O. Box 3272
Cheyenne, WY 82003

to construct, install or modify one attached-growth biological treatment closed loop wash system according to the procedures and conditions of the application number 13-459. The facility is located in NE 1/4 of Section 17, T13N R66W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed November 8, 2015.

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

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

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

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

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

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

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

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

1. The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7088, FAX 307-777-7610, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
2. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided and must be completely filled out.
3. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Kevin Frederick
Administrator
Water Quality Division



Todd Parfitt
Director
Department of Environmental Quality

Date of Issuance 12-5-13

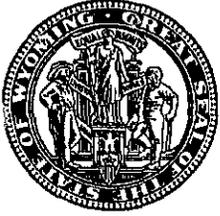
STATEMENT OF BASIS

1. Permit Number: **13-459**
2. This application was reviewed for compliance with the applicable regulations ;
Chapters 3, 11
3. Does the permit comply with all applicable regulations identified above?
Yes
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.

Sewerage Systems are exempted from review by Chapter 3, Section 17.
5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Seth Tourney, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on December 4, 2013. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



Department of Environmental Quality

*To protect, conserve, and enhance the quality of Wyoming's
environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

Todd Parfitt, Director

December 10, 2013

Ed Nowak, P.E.
Camp Creek Engineering
410 East Grand Avenue, Suite 205
Laramie, WY 82070

RE: Prairie Hill Farms – 2 Inch Waterline
Location: Section 8, Township 45 North, Range 61 West – Weston County
WDEQ Application #13-460

Dear Mr. Nowak:

We have completed our review of the permit application submitted on October 22, 2013. Attached you will find a summary of the review comments. Please provide the information requested as soon as possible. Please feel free to contact me at (307) 473-3478 should you have any questions related to these comments or the application and review process.

Sincerely,

Karen L. Farley, P.E.
Northeast District Engineer
WDEQ/WQD

Attachments: WDEQ Comments

cc: Dan Epperson, Cambria I&S District, P.O. Box 91, Newcastle, WY 82701
IPS
WDEQ File



REVIEW OF PLANS & SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
152 North Durbin Street, Suite 100
Casper, Wyoming 82601
Phone (307) 473-3465

PROJECT: Prairie Hill Farms – 2 Inch Waterline
LOCATION: Weston County, Wyoming
ENGINEER: Camp Creek Engineering
APPLICANT: Prairie Hill Farms LLC

WATER QUALITY DIVISION APPLICATION NUMBER: 13-460

DATE ON PROPOSAL/PLANS/REPORT: October, 2013

DATE RECEIVED BY DEQ: October 22, 2013

DATE OF THIS REVIEW: December 10, 2013

WDEQ REVIEWER: Karen L. Farley, P.E.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. In accordance with Chapter 3, Section 14 (a), Wyoming Water Quality Rules and Regulations (WWQRR), the application is denied because it is incomplete and/or contains errors. Please address the comments outlined below and submit the requested information/clarifications in order that the application process may be completed in accordance with Chapter 3, Section 9 of the WWQRR. If the applicant fails to provide the requested information within six months, the incomplete application shall be returned. **This review may not include all deficiencies and shall not be construed as a complete comprehensive list.**

WDEQ COMMENTS

- 1) Chapter 12, Section 7(c)(ii) – Please provide a profile for the new proposed 2” line. The profile “...shall be shown on the same sheet as the plan view at legible horizontal and vertical scales, with a profile of existing and finished surfaces, pipe size and material, valve size, material and type.”
- 2) Chapter 12, Section 7(f) – The note on Sheet SP-2 of the Special Provisions, adding language to Section 02225 is not clear. For example, the language states the “The maximum particle size diameter shall be eight (8) inches.” Please address.
- 3) Chapter 12, Section 7(f) – Section SP-02665 of the Special Provisions adds language that references PVC pipe. Please address.

- 4) Chapter 12, Section 7(f) – The Special Provisions states that the pipe proposed for use “...shall be polyethylene pipe in accordance with AWWA C-901, Class 200”. Please provide information on the pipe material classification and the pressure rating. Also, please provide engineering justification for the selected pipe material.
- 5) Chapter 12, Section 14(b)(vii) – The design report states that “...line valves every 800’ are not required.” However, there should be some valves on this line. Please provide a suggested valve placement and spacing for review.
- 6) Chapter 12, Section 14(b)(i) – The provided modeling shows the pressure resulting in the 2” line tapped off of the existing Cambria system. However, the size of the tap is ¾” – this will need to be taken into account when determining the resultant pressure at the new buildings. Please address.
- 7) Chapter 12, Section 14(b)(vii) – Please provide a way to flush the line. Flushing devices must provide flows which will give a velocity of 2.5 feet per second in the main being flushed.
- 8) The letter provided from Cambria I&SD does not indicate that they have adequate capacity to serve the development; it merely states that they are aware that the applicant owns two water taps and they are aware that he plans on more than one dwelling per tap. The Level II study indicated that Cambria is very close to its capacity, if not at capacity. The study states that the available supply from Newcastle is 50 gpm; the maximum daily demand was stated as 48 gpm. The additional PEAK HOUR demand from these three new connections is given as 5.1 gpm. Please address.



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

November 25, 2013

Rodney Christenson
PO Box 1951
Glenrock WY 82637

RE: A Big Storage, LLC Glenrock WY
Application No. 13-461, Converse County

Dear Mr. Christenson:

The above application for coverage under General Permit to Construct an already Installed, Modify or Operate a Small Wastewater Facility consisting of a 1,500 gallon septic tank discharging into about 106 feet of chamber type trench leachfield divided into two equal rows of at least 24 Infiltrator Quick 4 Standard model chamber units each for a 8-site RV Campground located in the SE 1/4 SW 1/4, Section 32, T34N, R75W, Converse County in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 25 of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

- A. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway **from each compartment of the septic tank must be extended to the ground surface.**
- B. Polyethylene Septic Tank Installation Requirements - To ensure structural integrity, the **manufacturer's instructions** regarding bedding the tank and filling the tank with water during burial **must be followed during installation.** Additionally, immediately after clean-outs, the tank must be refilled with water according to the manufacturer's instructions to maintain structural integrity.



This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Please reference Application No. **13-461** in any future correspondence.

If you have any questions, please contact me at either seth.tourney@wyo.gov or by phone at (307) 777-7088.

Sincerely,



Todd D. Hepworth, P.E.
Assistant Southeast District Engineer
Southeast District, Water Quality Division

TDH/rm/13-1107

cc: IPS

Holly Richardson, Converse County Office of Special Projects, 107 N. 5th, Suite B-6,
Douglas, Wyoming 82633

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY / WATER QUALITY DIVISION

122 West 25th Street, Herschler Building 4 West, Cheyenne, Wyoming 82002

PROJECT: A Big Storage, LLC Glenrock WY

APPLICANT: Rodney Christenson
PO BOX 1951
Glenrock WY 82637

WATER QUALITY DIVISION REFERENCE NUMBER: 13-461

REVIEWING ENGINEER: Todd D Hepworth

DATE OF REVIEW: November 4, 2013

ACTION: **NOT AUTHORIZED FOR CONSTRUCTION**. In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

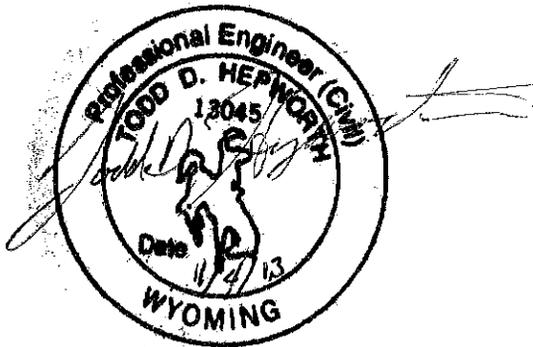
COMMENTS, INADEQUACIES, AND QUESTIONS

1. From our telephone conversation earlier today (11/4/2013):
 - a. The application is revised to indicate a total of 98 leach field chamber units, with two runs of 25 units on the exterior of the manifold and two runs of 24 units on the interior of the manifold.
 - b. From the data for the selected chamber units, the actual length of chambers for the longest runs (25 units) will be 110'-6"
 - c. The Actual Width between units will be 5' minimum.
2. With regard to your inquiry regarding installing a lift pump between the septic tank and the leach field, please be advised that such a pump installation will require submitting plans that are stamped & signed by a Professional Engineer licensed by the State of Wyoming.
3. If you are installing with an approximate 60" fall along the system (1/4"/ft for 240'), then it would appear that the leach field section view is incorrect and the Actual Cover Depth and Actual Trench Depths will need to be increased accordingly. Unfortunately, this also means that both the excavations **and** the percolation tests previously performed are too shallow. The excavation investigation needs to demonstrate the soil characteristics no less than 4-feet below the invert of the leach field chambers and the percolation tests need to be performed in the same soil as the percolation zone of the leach field (at the top of the aforementioned 4-ft zone). Your submittal indicates soil stratification at depths of approximately 12" (clay sand / sandy loam) and 72" (sandy loam / fine sand). If leach field will be installed in soil with a percolation rate of one minute per inch or less, then a six-inch layer of soil having a percolation rate of five minutes per inch or greater is placed between the leach system stone and the existing soil.

4. If you intend to use a different Septic Tank other than the 1,500 gallon Norwesco Model #41761, please provide the correct make and model number.
5. Please provide this office with additional information on your site plan. We would like to see information regarding both the pipeline profile and pipeline cleanouts. Rather than a full "engineering plan & profile drawing," we would be satisfied if you can provide a site plan to scale (such as 1"=100') and annotate with ground elevations and proposed pipe elevations. Also, please indicate that you will be installing cleanouts at a spacing of no more than 100-ft along the sewer line prior to the tank and at any change in alignment greater than 22½°. The junction of the lines from the 8 RV Sites and from the Office will require cleanouts for both tributaries to the pipeline junction.
6. Please check your Site Plan against the survey plat provided as your Legal Description. If the closest point of approach to the grade break and/or river is to the northwest (across adjoining property, in this case), note the distance & direction on the site plan. A quick review indicates that the river may be as close as 650-ft to the northwest, which does not appear to be a problem. Please revise accordingly.

END OF REVIEW

TDH/rm/13-1060



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY / WATER QUALITY DIVISION

122 West 25th Street, Herschler Building 4 West, Cheyenne, Wyoming 82002

PROJECT: Wyoming Department of Transportation

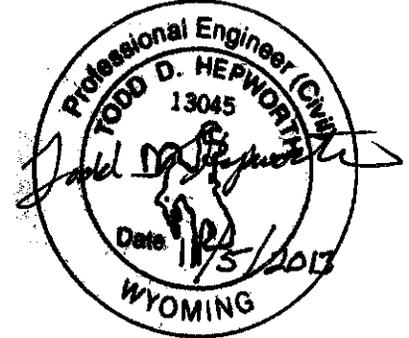
ENGINEER: Murray T Schroeder (WWC Engineering)
611 Skyline Rd
Laramie, WY 82070

APPLICANT: Pat Persson (WyDOT District Engineer)
3411 South Third Street
Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 13-462

REVIEWING ENGINEER: Todd D. Hepworth

DATE OF REVIEW: November 5, 2013



ACTION: NOT AUTHORIZED FOR CONSTRUCTION. In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS

WyDOT Summit Rest Area Water Replacement Project

1. It is noted that the system supplies water for the rest area building, the care taker's residence, and two spigot hydrants. Please clarify if the water supply is also used for site irrigation. Due to the external spigot hydrants, and potential for irrigation use, the connection after the rest area building should be protected by a suitable backflow prevention device.
2. Please provide additional information for the two 1020 gph pumps inside the building. Specifically, please provide the pump and system curves for these units.
3. Project Plans, Drawings C-2 and C-3 indicate that the existing tank's float controls are to be reused with the new tank. Drawing C-3 should be annotated to indicate how the control wiring should be transferred to the new tank (extend existing conduit with like size & kind material?), as well as direction for installation of controls in the new tank. For example, is the intent to have floats affixed to the access ladder or on an independent support?
4. Please clarify drawings C-3, PP-1, and PP-2. The design report indicates that there will be two (2) 2-inch **PVC** lines from the tank to the Rest Area building and a "match existing size/material" (**PE**) line from the building to the residence/hydrants. Drawings C-3, PP-1 and PP-2 call out "2 Inch *PE* Water

PROJECT: WyDOT Summit Rest Area Water Replacement Project
DATE OF REVIEW: November 5, 2013

Main"and "2 Inch PE Water Service." Drawing PP-1, "Water Main Plan & Profile," should have the details from PP-2 regarding the twin 2-inch lines between the tank and building as well as explicit plan & profile annotation for two pipelines. Add the 2nd 2-inch water main to the plan view.

5. Drawing PP-1 "Water Main Plan & Profile," make sure that the plan view annotations for the water tank connections point to the appropriate locations. For Detail A-2 on this sheet, there appears to be a discrepancy with Drawing Det-1, in that the tank on DET-1 is shown with a 6-inch discharge drain and the piping will be 2-inch. Will there be a plug with bushing or an eccentric reducer (which could be used to fully drain the tank)? Please clarify.
6. Drawing PP-2 "Water Service Plan & Profile," the note from Drawing PP-1 regarding connection to the freeze-proof hydrant line should be added to both the plan and profile views.
7. Drawing DET-1 –
 - a. The 4" Auxiliary Fill Connection must be lockable and the 4" vent pipe note should call out a "24-mesh corrosion resistant bug screen"
 - b. The tank invert elevation callout on this page does not match that stated on Drawing PP-1. Please clarify the correct invert.
 - c. Will the precast concrete vault require a footing beneath the 4-inch wall segment to control structure settlement?

END OF REVIEW

TDH/rm/13-1070

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wyoming Department of Transportation

ENGINEER: Murray T Schroeder (WWC Engineering)
611 Skyline Rd
Laramie, WY 82070

APPLICANT: Pat Persson (WyDOT District Engineer)
3411 South Third Street
Laramie, WY 82070



WATER QUALITY DIVISION REFERENCE NUMBER: 13-462

REVIEWING ENGINEER: Todd D. Hepworth

DATE OF REVIEW: December 24, 2013

ACTION: **NOT AUTHORIZED FOR CONSTRUCTION.** In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS

WyDOT Summit Rest Area Water Replacement Project

1. Repeat comment:

The 12/18/2013 response to comments indicate that backflow prevention devices have been added to the plan set. However, I do not see where they to be installed (interior to the building?) and what make/model is the basis of bid. Please clarify.

2. Satisfactorily Addressed.

3. Satisfactorily Addressed.

4. Satisfactorily Addressed.

5. Satisfactorily Addressed.

6. Satisfactorily Addressed.

7. Drawing DET-1 –

PROJECT: WyDOT Summit Rest Area Water Replacement Project
DATE OF REVIEW: December 24, 2013

- a. *The 4" Auxiliary Fill Connection must be lockable and the 4" vent pipe note should call out a "24-mesh corrosion resistant bug screen."*

While the resubmittal indicates the bug screen, the auxiliary fill connection annotation as "lockable" still needs to be addressed.

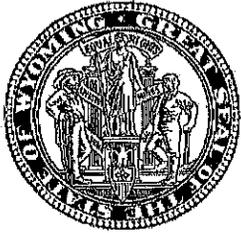
- b. Satisfactorily Addressed.

- c. *Will the precast concrete vault require a footing beneath the 4-inch wall segment to control structure settlement?*

The response indicates "Refer to DET-1 "Details" for the addition of a precast footer, but no such callout is found on the plans. Please clarify.

END OF REVIEW

TDH/rm/13-1226



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

January 9, 2014

Wyoming Department of Transportation
Attn: Pat Persson, District Engineer
3411 South Third Street
Laramie WY 82070

RE: WyDOT Summit Rest Area Water Replacement Project
Application No. 13-462, Albany County

Dear Mr. Persson:

The above application for coverage under **General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems** consisting of the removal and replacement of an underground storage tank, the replacement of 2" service lines and two spigot hydrants with backflow prevention located in the **Southwest ¼, Section 26, T15N, R72W, Albany County**, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with **Chapter 12, Section 14** of the Water Quality Division Rules and Regulations, in accordance with the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in **Part V, Section O** of the general permit.

All construction, installation, or modification allowed by this Notification of Coverage shall be completed by January 9, 2019.

This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:
http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Please reference Application No. **13-462** in any future correspondence.

If you have any questions, please contact me at either todd.hepworth@wyo.gov or by phone at (307) 777-6183.

Sincerely,

Todd D. Hepworth, P.E.
Assistant Southeast District Engineer
Water Quality Division
TDH/rm/14-0029

Enclosures: Certificate of Completion form

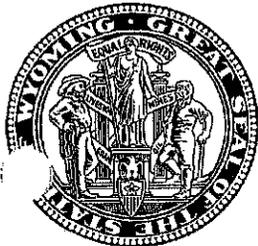
cc: IPS

Murray Schroeder, WWC Engineering, 611 Skyline Road, Laramie, Wyoming 82070

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-1369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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Department of Environmental Quality

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Matthew H. Mead, Governor

Todd Parfitt, Director

December 27, 2013

Converse County Board of Commissioners
107 North 5th, Suite 114
Douglas WY 82633

Subject: Non-Adverse Recommendation, Phipps Subdivision, Converse County
DEQ/WQD Application # 13-463

Dear Commissioners:

The Wyoming Department of Environmental Quality has completed the review of the proposed Phipps Subdivision located in Section 13 and 14, T33N, R75W, 6th P.M., in Converse County, Wyoming. The Phipps Subdivision will create 11 lots out of approximately 47 acres. The information was submitted by Tetra Tech, Inc. (Tetra Tech), signed by Keith Thompson, P.G., a Wyoming Professional Geologist. This letter represents the recommendations of the Wyoming Department of Environmental Quality as required by W.S. 18-5-306(c).

Findings as to the safety and adequacy of the proposed sewage system:

The proposed sewage system is the use of individual on-site septic tanks and leach fields permitted by and constructed to Wyoming Department of Environmental Quality Water Quality Rules and Regulations. The information submitted addresses the safety and adequacy of the proposed sewage system.

Findings as to the safety and adequacy of the proposed water system:

The proposed water system is to be individual wells on each lot. The information submitted addresses the safety and adequacy of the proposed water system, provided the following statement is added to the Final Plat and all pertinent documents.

Notes required to be added to the final plat, and other pertinent documents:

1. A statement addressing water quality reading as follows "Sample results from an existing well indicate that groundwater present at the site may exceed aesthetic- and cosmetic-related EPA groundwater quality standards."



Conclusions:

The Department of Environmental Quality has "No Adverse" recommendations applicable to the Phipps Subdivision.

Disclaimer:

The Non-Adverse recommendation provided above has nothing to do with, nor has any bearing on the water rights associated with the Phipps Subdivision. Any questions or concerns about the water rights for the Phipps Subdivision should be directed to the State Engineer's Office.

Nothing in Department of Environmental Quality recommendations or comments regarding the Tetra Tech's proposal for the Phipps Subdivision shall be construed to relieve John Phipps of the obligation to obtain any permits or additional approval from any local, state or federal agencies as required by law, rules, regulations, or ordinances. Nothing in these recommendations commits the Department of Environmental Quality or Converse County to the issuance of required permits for construction, operation, or modification of water supply or sewage systems.

Sincerely,



Rich Cripe, P.E.
Program Manager
Water & Wastewater Program, Water Quality Division

RRC/TDH/rm/13-1229

cc: Keith Thompson, Tetra Tech, Inc. 605 N Warehouse Road Casper WY 92601
John Phipps, P.O. Box 2228 Glenrock WY 82637
Michael Ebsen, SEO



Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Matt Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

November 6, 2013

Wyo. Military Dept.
Guy Beaudoin
5410 Bishop Blvd.
Cheyenne, WY 82009

RE: Lander Armory Grease Interceptor Project, DEQ Permit #13-464, Fremont County, 42° 29' 44" N.
108° 43' 03" W.

Dear Mr. Beaudoin:

This project consists of installing a 1000-gallon grease interceptor to serve a remodeled kitchen facility at the Lander Armory. The above application for coverage under General Permit has been reviewed in accordance with **Chapter 3, Section 7; and Chapter 25** of the Wyoming Water Quality Rules and Regulations and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package and the **General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility.**

Your attention is directed to the attached Certificate of Completion form, which is to be submitted within 60 days of the completion of the aforementioned project. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-335-6961.

Sincerely,

James Brough, P.E.
Northwest District Engineer
Water Quality Division

xc: PDF to Cheyenne
Ron Rice, P.E., Engineered Systems Associates, 315 West Center, Pocatello, ID 83204

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • <http://deq.state.wy.us>

ABANDONED MINES
(307) 332-5085
FAX 332-7726

AIR QUALITY
(307) 332-8755
FAX 332-7726

LAND QUALITY
(307) 332-3047
FAX 332-7726

SOLID & HAZARDOUS WASTE
(307) 332-6924
FAX 332-7726

WATER QUALITY
(307) 332-3144
FAX 332-7726



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
ROAD APPLICATION PERMIT

New
Renewal
Modified

PERMIT NO. **13-465**
SPECIAL CONDITIONS
REF/PERMIT

Indian Creek Field Road Application

This permit hereby authorizes the applicant:

Richardson Operating Company
4725 S. Monaco Street
Denver, CO 80237

to road apply approximately 200 cubic yards of petroleum contaminated soil on approximately 2000 feet of a dirt lease road according to the procedures and conditions of application number 13-465. The application site is located in Southeast Quarter, Section 30, Township 48 North, Range 78 West in the county of Johnson, in the State of Wyoming. The application site is located approximately 27 miles southeast of Buffalo, Wyoming. This permit shall be effective until November 1, 2014.

The issuance of this permit confirms that the Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable standards. Compliance with DEQ standards is the responsibility of the permittee, owner, and/or operator.

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

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

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

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

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

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

- 1 of 8 **The permittee shall notify representatives from the DEQ/WQD of the anticipated project commencement and completion dates by email at least 48 hours in advance.** The authorized representative in your area can be contacted at the following address: DEQ/WQD, Casper WDEQ Field Office, 152 North Durbin Street, Suite 100, Casper, WY 82604, telephone (307) 473-3452; FAX (307) 473-3458.
- 2 of 8 The permittee shall provide immediate oral and/or written notice to the Casper WDEQ Field Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications to the approved permit package.

- 3 of 8 The permittee shall provide certification that the project was completed in accordance with the terms and conditions of the permit within sixty (60) days of the project completion to the Casper WDEQ Field Office on the attached Certification of Completion form.
- a. Date that the road application was completed; and
 - b. Certification the road application was done in accordance with the terms and conditions of the permit; or
 - c. Certification the road application was completed with changes or modifications. Submit the information necessary to clearly indicate the road application as actually performed. This information shall include a contour map depicting only those sections of road that actually received petroleum contaminated soil.
- 4 of 8 The review and approval of this permit is based upon the items identified in the attached Statement of Basis.
- 5 of 8 The petroleum contaminated soil shall be applied uniformly and incorporated into the road bed. The petroleum contaminated soil may applied be during the period from November 1 to December 1, providing weather conditions are favorable and the road bed is not frozen. No petroleum contaminated soil may be applied between December 1 and April 1. The petroleum contaminated soil shall not be applied during times of precipitation.
- 6 of 8 The application site slope shall not exceed eight percent (8%) for vehicular application.
- 7 of 8 Application of petroleum contaminated soil shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
- 8 of 8 Only the roads designated in this permit are authorized for application of the petroleum contaminated soil. Additional or alternate sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the WQD.

AUTHORIZED BY:



Kevin Frederick
Administrator
Water Quality Division



Todd Parfitt
Director
Department of Environmental Quality

11-14-13

Date of Issuance

KJM/rm/13-1063

STATEMENT OF BASIS

I. General information.

A. Permit Number: 13-465

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

A. Chapter XI. No

B. Chapter XII. No

III. Basis for issuing permit. (Indicate yes or no for each section.)

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

No

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

No

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

No

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)

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

There are no numeric standards or criteria in Chapter XI for road application. W.S. 35-11-301 (a)(iii) requires a permit to be issued when any disposal system capable of causing or contributing to pollution is constructed, installed, modified, or operated.

B. Briefly state the basis for the deviation.

Road application is permitted when DEQ authorized disposal facilities are not readily available, a beneficial use of the waste to be applied is possible, and significant impact to waters of the State is minimized.

C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).

District Policy numbers 10.1 (4/9/91), 10.2 (10/17/86), 10.3 (8/91), 10.4 (10/24/91), and 10.6 (1/18/91) address the statutory authority to regulate the road application of waste, establish criteria for characterizing the waste, and determine acceptable conditions for the application of the waste to roadbeds to minimize impact to waters of the State.

District Policy 10.2 (10/17/86)

V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter III¹. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

NA

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

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

A. Facility will not allow a discharge to groundwater. Briefly describe:

The opportunity for direct or indirect discharge, percolation, or filtration to groundwater is minimized by uniformly applying the petroleum contaminated soils onto the roadbed.

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

NA

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

NA

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

NA

E. Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

NA

F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal and any other information documenting that any users of affected aquifer will not be impacted.

NA

G. Briefly describe monitoring system (parameters, frequency, etc.). Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

NA

VII. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Kim Medina, Geologic Project Analyst, and completed on October 29, 2013. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

November 4, 2013

Town of Wheatland
Cindy Kahler, Clerk
600 9th Street
Wheatland, WY 82205

RE: North Park Subdivision – 10" water line loop, Reference #'s: 12-370; 13-396
Application No. 13-467, Platte County

Dear Mr. Sherard:

The above application for coverage under **General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems** consisting of extending approximately 1,800 8-inch and 800 10-inch lineal feet of water main and Existing **Sewage Collection Systems** consisting of extending approximately 1750 lineal feet of 8-inch sanitary sewer main located in **Northwest 1/4, Section 12, T24N, R68W, Platte County**, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with **Chapter 12, Section 14** of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with **Chapter 11, Section 9** of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in **Part V, Section O** of the general permit. Additionally, the following project specific conditions also apply:

1. Section 2665 E.6 – Water tight plugs shall be maintained in all pipe openings in a trench any time pipe laying is not in progress or the trench is unattended.

All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **November 4, 2018**.

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7152 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Please reference Application No. 13-467 in any future correspondence.

If you have any questions, please contact me at either seth.tourney@wyo.gov or by phone at (307) 777-7088.

Sincerely,



Seth Tourney, P.E.
Southeast District Engineer
Water Quality Division

SWT/rm/13-1058

Enclosures: Certificate of Completion form
Approved Submittal Package

cc: IPS
Larry Gallagher, Summit Engineering, 5907 Townsend Place, Cheyenne, Wyoming
82009



Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

December 11, 2013

Dan Roberts
City of Sheridan
55 Grinnell Plaza
Sheridan, WY 82801

RE: Sheridan Streets – Lewis Street Bridge – Water and Sanitary Sewer Improvements Project
Application No. 13-470, City of Sheridan, WY

Dear Mr. Roberts:

The above application for coverage under General Permits to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Water Supply Distribution Systems and Existing Sewage Collection Systems, consisting of the removal and replacement of 6 inch waterline with 8 inch and 12 inch waterline, along with fire hydrants and associated service lines, and the removal and replacement of 8 inch VCP sewer line with 8 inch and 12 inch PVC sewer line, including associated sewer service lines and manholes, located in the NW ¼, Section 27, Township 56 North, Range 84 West, Sheridan, Wyoming, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with **Chapter 11 and 12** of the Water Quality Division Rules and Regulations, the General Permits, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2015.

This Notification of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-473-3478.

Sincerely,

Karen L. Farley, P.E.
NE District Engineer
WDEQ/WQD

cc: IPS, Cheyenne
WDEQ Casper File
Jack L. Morey, P.E., JLM Engineering, Inc., 39 North Main Street, Buffalo, WY 82834





Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

November 4, 2013

Loni Sorensen
P.O. Box 474
Newcastle, WY 82701

RE: Sorensen Small Wastewater System
Application No. 13-471, Weston County

Dear Ms. Sorensen:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1,000 gallon Boom Concrete septic tank discharging into three chambered trenches of approximately 12 Infiltrator Standard chambers each, for a residential building located in the NW $\frac{1}{4}$, **Section 35, Township 45N, Range 62W**, Weston County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with **Chapter 25** of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2015.

This Notification of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater.
2. Flow-divider tees or a distribution box is required to evenly split flow between trenches. Standard tees are not an adequate substitute for flow-dividing tees.

If you have any questions, please contact me at 307-473-3469.

Sincerely,

Jason Vreeland, P.E.
Assistant NE District Engineer
WDEQ/WQD

cc: IPS, Cheyenne
WDEQ Casper File (Electronic)
Weston County Growth and Development, 1 West Main Street, Newcastle, WY 82701
Allan Schreier, P.E., 511 National Street, Suite 101, Belle Fourche, SD 57717





Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

December 20, 2013

Les Hook
City of Buffalo
46 North Main Street
Buffalo, WY 82834

RE: South Burritt Water and Sewer Line Replacement
Application No. 13-472, Johnson County

Dear Mr. Hook:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Water Supply Distribution Systems and Existing Sewage Collection Systems, consisting of the installation of approximately 725 feet of 8 inch PVC waterline and 533 feet of 8 inch PVC sanitary sewer line located in **Section 34, Township 50N, Range 82W, Johnson County**, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with **Chapter 11 and 12** of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2015.

This Notification of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-473-3469.

Sincerely,

Jason Vreeland, P.E.
Assistant NE District Engineer
WDEQ/WQD

cc: IPS, Cheyenne
WDEQ Casper File (electronic)
Greg Reid, P.E., WWC Engineering, 1849 Terra Avenue, Sheridan, WY 82801





Department of Environmental Quality



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Matt Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

November 18, 2013

Bruce Monson, Mayor
Town of Lovell
P.O. Box 188
Lovell, WY 82431

RE: Lovell Main Street Infrastructure Improvements
DEQ Permit #13-473
Located in Big Horn County, T56N, R96W; Lat. 44.8375°, Long -108.3897°

Dear Mayor Monson,

This project consists of the replacement of existing water main with 5,400 linear feet of C-900 PVC and 14 water valves, and the replacement of existing sanitary sewer with 4,500 linear feet of 8 inch PVC sewer main and 20 manholes. The section of sewer main on Quebec Ave. will be constructed with C-900 PVC pipe, as discussed below.

The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11 and Chapter 12 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package, and the General Permit to Construct, Install, Modify or Operate Extensions to or Modification to Existing Public Water Supply Distribution Systems and the General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Construction shall be completed by November 18, 2018

Your attention is directed to the attached Certificate of Completion form, which is to be submitted within 60 days of the completion of the aforementioned project.

These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact Hannes Stueckler at 307-335-6964 or James Brough at 307-335-6961.

Sincerely,

Hannes E. Stueckler, P.E.
Assistant Northwest District Engineer
Water Quality Division

xc: PDF to Cheyenne
Andrew Mattie, P.E., DOWL HKM, 16 W. 8th Street, Sheridan, WY 82801

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • <http://deq.state.wy.us>

ABANDONED MINES
(307) 332-5085
FAX 332-7726

AIR QUALITY
(307) 332-6755
FAX 332-7726

LAND QUALITY
(307) 332-3047
FAX 332-7726

SOLID & HAZARDOUS WASTE
(307) 332-6924
FAX 332-7726

WATER QUALITY
(307) 332-3144
FAX 332-7726





Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

NOTIFICATION OF COVERAGE

November 5, 2013

Thomas Williamson
3 Mule Creek Drive
Moorcroft, WY 82721

RE: Williamson Small Wastewater System
Application No. 13-474, Crook County

Dear Mr. Williamson:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of an existing 1,000 gallon concrete septic tank discharging into three pipe and rock trenches approximately 86 feet in length each, for a four bedroom residential building located in the SE $\frac{1}{4}$, Section 11, Township 50N, Range 66W, Crook County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with Chapter 25 of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2015.

This Notification of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater.
2. Flow-divider tees or a distribution box is required to evenly split flow between trenches. Standard tees are not an adequate substitute for flow-dividing tees.

If you have any questions, please contact me at 307-473-3469.

Sincerely,

Jason Vreeland, P.E.
Assistant NE District Engineer
WDEQ/WQD

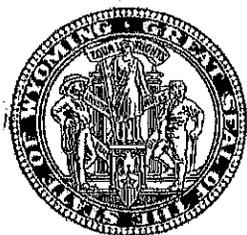
cc: IPS, Cheyenne
WDEQ Casper File (Electronic)
Tim Lyons, Crook County Growth and Development

Cheyenne
122 West 25th Street 82002
(307) 777-7937

Lander
510 Meadowview Drive 82520
(307) 332-3144

Sheridan
2100 W. 5th Street 82801
(307) 673-9337





Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

January 21, 2014

Town of Fort Laramie
Attn: Alexander Jankewicz, Mayor
P.O. Box 177
Fort Laramie, WY 82212

RE: Fort Laramie Sanitary Sewer Outfall Improvements
Application No. 13-475, Goshen County

Dear Mayor Jankewicz:

The above application for coverage under **General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Sewage Collection Systems** consisting of replacement of the Town of Fort Laramie's existing sanitary sewer outfall with approximately 2,945LF of new 12" PVC line and 13 sanitary sewer manholes located in the **Southwest ¼, Section 23, T26N, R64W and Northwest ¼, Section 26, T26N, R64W, Goshen County**, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with **Chapter 11, Section 9** of the Water Quality Division Rules and Regulations, in accordance with the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in **Part V, Section O** of the general permit. Additionally, the following project specific conditions also apply:

The variance on the pipe slopes has been granted in accordance with DEQ Policy 13.9.13 for Very Low Slope Sewer Variance.

All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **January 21, 2019.**

This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Please reference Application No. 13-475 in any future correspondence.

If you have any questions, please contact me at either todd.hepworth@wyo.gov or by phone at (307) 777-6183.

Sincerely,

Todd D. Hepworth, P.E.
Assistant Southeast District Engineer
Water Quality Division
TDH/rm/14-0055

Enclosures: Certificate of Completion form

cc: Timothy D Eisenhauer, P.E., Baker & Associates, Inc. 1401 East "M" Street, Torrington, Wyoming, 82240

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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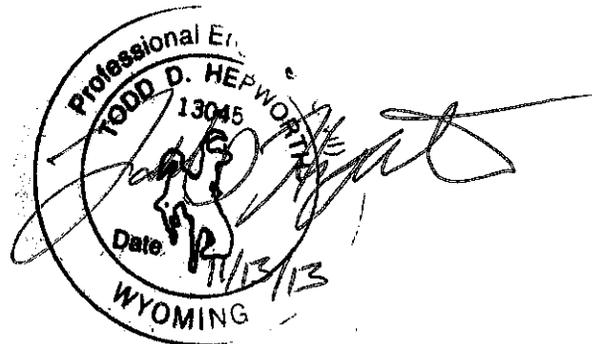
REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Fort Laramie Sanitary Sewer Outfall Improvements

ENGINEER: Timothy Eisenhauer
Baker & Associates
1401 East "M" Street
Torrington, WY 82240

APPLICANT: Alexander Jankewicz
Town of Fort Laramie
319 N. Laramie Avenue
Ft. Laramie, WY 82212



WATER QUALITY DIVISION REFERENCE NUMBER: 13-475 ref #(13-103)

REVIEWING ENGINEER: Todd D Hepworth

DATE OF REVIEW: November 13, 2013

ACTION: **NOT AUTHORIZED FOR CONSTRUCTION.** In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS

Fort Laramie Sanitary Sewer Outfall Improvements

- 1) It is understood that this permit is a modification / replacement of the proposed work under Permit 13-103 to accommodate unforeseen circumstances with underground utilities. Even though Permit 13-103 expressly references granting a variance based upon DEQ Policy 13.9.13, "Very Low Sewer Slope Variance," I do not see documentation in the file from the utility owner stating that they concur with the design and accept responsibility for owning and maintaining a low slope sewer pipeline. Please provide a statement from the Town indicating that they approve of the design.

Also, note that the variance for Very Low Slope Sewer requires the use of a laser level to ensure accurate & uniform grade as well as installation under the supervision of a full time inspector.

PROJECT: Town of Baggs Phase II Pretreatment System Pilot Testing
DATE OF REVIEW: April 17, 2012

- 2) Sheet C-0.01 "Civil Notes, Abbreviations, Symbols & Linetypes"
Under the "General Notes" section please revise Note 8 to also indicate that Type 1 Bedding Material shall be used when there is less than 3-ft of cover over the top of pipe. This will address the pipe section at 0.17% slope with approximately 18" of cover.
- 3) Sheet C-5.00 – It is noted that Proposed Manholes 1 through 3 have short builds between 2'-7" and 3'-4". Please confirm "constructability" of these structures with regards to using shortened eccentric cone riser sections and full-height castings. You may want to consider using shortened castings and/or flat-top structures for these locations.
- 4) Sheet C-5.01. It is noted that the plan view appears to indicate 3 potential trees interfering with pipeline construction and the corresponding Note 4 calls removing 2 trees. Will the additional tree(s) be cleared from the easement?
- 5) Sheet C-5.02. For the water service crossing located ~Sta 23+80, per Chapter 12, Section 14.g.i of the Rules and Regulations, the sanitary sewer must be noted as being either encased with Flowable Fill installed conforming to DEQ Policy 13.9.11 / 14.14.14 or installed in a separate conduit pipe. Also note on the plans that a full stick of the new 12" PVC Sanitary pipe shall be centered over the crossing.
- 6) Sheet C-5.05.
 - a. Please clarify Note #3, which indicates abandoning the existing 8" VCP from Existing MH#11 to Proposed MH#11. Is Proposed Manhole #13 in the same location as Existing MH#11? If so, indicate as such in the Plan & Profile views.
 - b. There is an apparent discrepancy between the Plan & Profile views regarding the existing water main near proposed manhole #13. Namely the plan view appears to indicate that the existing 4" water main is south of the manhole and the profile view indicates this facility down-station (north) of the manhole. The elevations from the plan view indicate a potential conflict between the pipelines. Please revise and resubmit indicating how this situation will be addressed.
- 7) Sheet C-7.01 – Manhole #2 detail: please indicate angular separation for at least two of the three flow lines to be set in the manhole base.

END OF REVIEW

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 13-477

Reuse Water Pump Station

This permit hereby authorizes the applicant:

CHEYENNE BOARD OF PUBLIC UTILITIES
2416 SNYDER AVENUE
CHEYENNE, WY, 82001

to install the water reuse pump station according to the procedures and conditions of the application number 13-477. The facility is located in SE ¼ of the NW ¼ of Section 6 T13N R65W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed January 8, 2018.

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

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

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

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

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

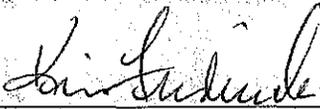
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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

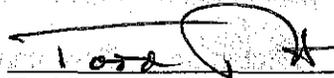
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7088, FAX 307-777-7610, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided and must be completely filled out.
- 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".
- 4 This permit does not cover the pipeline work to convey the reuse water to the Black Hills Power station. A separate DEQ permit application is required for the force main construction.

AUTHORIZED BY:



Kevin Frederick
Administrator
Water Quality Division



Todd Parfitt
Director
Department of Environmental Quality

Date of Issuance 1-9-14

SWT/rm/14-0026

STATEMENT OF BASIS

1. Permit Number: 13-477
2. This application was reviewed for compliance with the applicable regulations ;
Chapters 3, 11, and 21
3. Does the permit comply with all applicable regulations identified above?
Yes
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.

Sewerage systems and reuse of treated wastewater are exempted from review by Chapter 3, Section 17.
5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Seth Tourney, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on January 8, 2014. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



Department of Environmental Quality

*To protect, conserve, and enhance the quality of Wyoming's
environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

November 26, 2013

Lee Williams
1213 D Road
Oshoto, WY 82721

RE: Williams Small Wastewater System
Application No. 13-479, Crook County

Dear Mr. Williams:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1,500 gallon Ace Roto-Mold polyethylene tank discharging into three trenches of 15 ARC 36 Chambers each, for a four bedroom residential building located in the **SE $\frac{1}{4}$, Section 34, Township 52N, Range 68W**, Crook County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with **Chapter 25** of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2015.

This Notification of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater.
2. Flow-divider tees or a distribution box is required to evenly split flow between trenches. Standard tees are not an adequate substitute for flow-dividing tees.

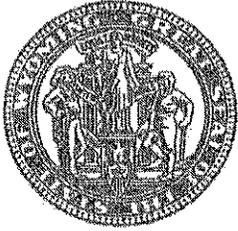
If you have any questions, please contact me at 307-473-3469.

Sincerely,

Jason Vreeland, P.E.
Assistant NE District Engineer
WDEQ/WQD

cc: IPS, Cheyenne
WDEQ Casper File (Electronic)
Tim Lyons, Crook County Growth and Development





Department of Environmental Quality



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Matt Mead, Governor

Todd Palfitt, Director

NOTIFICATION OF COVERAGE

December 16, 2013

John B. Eddins
Wyoming Department of Transportation, District 3
3200 Elk Street
Rock Springs, WY 82902

RE: Evanston- WYDOT Maintenance Facility -Water & Sewer Mains - Permit Number 13-480,
NW ¼, Section 15, T15N, R120W, Uinta County

Dear Mr. Eddins:

The above application for coverage under General Permit to Construct the extension of a **Public Water Supply System** consisting of about 807 linear feet (LF) of 8-inch and 31 LF of 6-inch PVC water main and the extension of a **Sewage Collection System** consisting of about 567 LF of 6-inch PVC sewer main to serve a WYDOT Maintenance Facility in accordance with Chapter 3, Section 7, Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

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

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne
Harry L. Moore, P.E., Uinta Engineering & Surveying, Inc., 808 Main Street, Evanston, WY
82930

Page 1 of 1



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT No. 13-481

Reference Permits No. 11-271 & 13-289

PacifiCorp Jim Bridger Power Plant – Replacement of Sewage Treatment Facility

This permit hereby authorizes the applicant:

Ricky Tripp
PacifiCorp Jim Bridger Power Plant
P.O. Box 158
Point of Rocks, WY 82942

to construct a domestic wastewater treatment facility consisting of sewage pretreatment, primary treatment, secondary settling, sludge handling and disposal, disinfection and a sewage treatment building to serve the power plant workforce at an average sewage treatment rate of 15 gallon per minute, according to the procedures and conditions of the application number 13-481. The facility is located about 9 miles north of Point of Rocks, WY, at Lat 41.739, Lon -108.778, Section 3, T20N, R101W, in the county of Sweetwater, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by September 30, 2014. This Permit to Construct extends the original construction period of Permit to Construct 13-289 from December 31, 2013 to September 30, 2014.

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

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

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

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

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

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

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

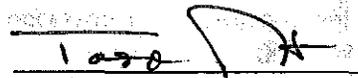
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 8 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 8 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided and must be completely filled out.
- 3 of 8 This Permit to Construct is being issued based on a proposed sewage treatment facility design. The final design of the sewage treatment facility must be submitted to the Southwest District Engineer at least 30 days before construction starts for approval. The design must be performed by a professional engineer licensed in the State of Wyoming.
- 4 of 8 Treated sewage effluent is to be routed through Unit 4 effluent pond #91 and then only discharged into the Jim Bridger Power Plant Evaporation pond permitted by the Office of the State Engineer under Permit 9596 for reservoirs.
- 5 of 8 Treated wastewater monitoring results shall be retained and available for inspection upon request by the Wyoming Department of Environmental Quality. Copies of records shall be maintained by the plant operator.
- 6 of 8 The required treated wastewater monitoring and sampling frequency is listed in the attached Monitoring Schedule on page 4 of 4 of this permit.
- 7 of 8 If the treated wastewater is found to be in non-compliance with either Fecal Coliform Bacteria or Chlorine Residual results must be immediately reported to the Wyoming Department of Environmental Quality.
- 8 of 8 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Kevin Frederick
 Administrator
 Water Quality Division



Todd Parfitt
 Director
 Department of Environmental Quality

12-5-13

Date of Issuance

MDB/rm/13-1135

STATEMENT OF BASIS

1. Permit Number: 13-481
2. Application reviewed for compliance with the following regulations:
Chapters 3 and 11 of the Wyoming Water Quality Rules and Regulations.
3. Does the permit comply with all applicable regulations identified above?
No. The discharge limits are based upon Chapter 11, Section 55(c)(i) numerical water quality criteria for special situations as adjusted for the current E. Coli surface water standard. The treated sewage effluent discharges into a non-permitted 4910 acre-feet non-discharging, non-potable utility and evaporative effluent pond.
4. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.
Sewerage systems are exempted from review by Chapter 3, Section 17.
5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., Southwest District Engineer, mark.baron@wyo.gov, and completed on November 19, 2013. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents permit conditions, and the items identified in this "Statement of Basis."

cc: Michael W Meyer, P.E., Jim Bridger Power Plant, P.O. Box 158, Point of Rocks, WY 82942

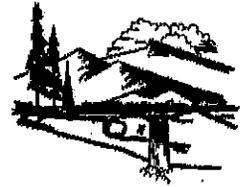
PacifiCorp Jim Bridger Power Plant Wastewater Treatment Facility - Monitoring Schedule -
 Treated Wastewater Reuse Monitoring and Reporting Requirements WDEQ/WQD Permit Number 13-481, Sweetwater County, November 19, 2013.

Parameter	Method ¹	Regulatory Limit	Point of Compliance	Sampling Frequency
Biochemical Oxygen Demand (BOD)	SM5210B	30 mg/l maximum.	At the point of discharge to effluent pond.	Twice annual grab sample. Record to be kept.
Total Suspended Solids (TSS)	SM2540D	100 mg/l maximum.	At the point of discharge to effluent pond.	Twice annual grab sample. Record to be kept.
E. coli Bacteria	SM9223B	126 cfu/100 ml maximum.	At the point of discharge to effluent pond.	Twice annual grab sample. Record to be kept.
Chlorine Dosage	Chlorine meter.	Target dosage 10 mg/l.	Before the Contact Tank.	Daily. Record to be kept.
Chlorine Residual	Chlorine meter.	50 mg/l maximum.	At the point of discharge to effluent pond.	Daily. Record to be kept.
Chlorine Residual	Chlorine meter.	1 mg/l minimum.	Contact tank.	Daily. Record to be kept.

1. Equivalent wastewater testing methods may be used.



Department of Environmental Quality



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Matt Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

November 22, 2013

Jason Wells, Vice President
Crystal Springs Ranch Inc.
3490 Clubhouse Dr.
Wilson, WY 83014

RE: Lodges at Fish Creek
DEQ Permit #13-482
Located in Teton County, SW ¼ & SE ¼, SE ¼, S24, T42N

Dear Mr. Wells,

This project consists of the construction of approximately 450 linear feet of 6 inch DIP water main and 550 linear feet of 8 inch and 6 inch SDR 35 PVC sewer main to serve 12 residential units.

The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11 and Chapter 12 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package, and the General Permit to Construct, Install, Modify or Operate Extensions to or Modification to Existing Public Water Supply Distribution Systems and the General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Construction shall be completed by November 22, 2018

Your attention is directed to the attached Certificate of Completion form, which is to be submitted within 60 days of the completion of the aforementioned project.

These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact Hannes Stueckler at 307-335-6964 or James Brough at 307-335-6961.

Sincerely,

Hannes E. Stueckler, P.E.
Assistant Northwest District Engineer
Water Quality Division

xc: PDF to Cheyenne
Thomas Kirsten P.E., Jorgensen Associated P.C., P.O. Box 9550, Jackson, WY 83001

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • <http://deq.state.wy.us>

ABANDONED MINES
(307) 332-5085
FAX 332-7726

AIR QUALITY
(307) 332-6765
FAX 332-7726

LAND QUALITY
(307) 332-3047
FAX 332-7726

SOLID & HAZARDOUS WASTE
(307) 332-6924
FAX 332-7726

WATER QUALITY
(307) 332-3144
FAX 332-7726





Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

January 13, 2014

Bridger Transfer Services

Attn: Otis J. Randle, Director of Environmental Safety and Regulation Compliance
10327 South Jordan Creek Drive
South Jordan, UT 84095

RE: Bridger Transfer Services,
Application No. 13-483, Laramie County

Dear Mr. Randle:

The above application for coverage under **General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems** consisting of installing approximately 500 feet of 8-inch water main and two (2) fire hydrants located in the Southwest ¼, Section 14, T13N, R67W, and the Southeast ¼, Section 15, T13N, R67W, Laramie County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with **Chapter 12, Section 14** of the Water Quality Division Rules and Regulations, in accordance with the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in **Part V, Section O** of the general permit. Additionally, the following project specific conditions also apply:

1. The construction shall follow the Construction Standards & Specifications prepared by the City of Cheyenne and Board of Public Utilities.

All construction, installation, or modification allowed by this Notification of Coverage shall be completed by January 13, 2019.

This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

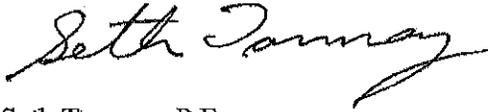
ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL Siting (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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Please reference Application No. 13-483 in any future correspondence.

If you have any questions, please contact me at either seth.tourney@wyo.gov or by phone at (307) 777-7088.

Sincerely,

A handwritten signature in cursive script that reads "Seth Tourney".

Seth Tourney, P.E.
Southeast District Engineer
Water Quality Division

SWT/rm/14-0035

Enclosures: Certificate of Completion form

cc: IPS
Brad Brooks, Cheyenne BOPU, P.O. Box 1469, Cheyenne, WY 82003
Tom Cobb, AVI, 1103 Old Town Lane, Cheyenne, WY 82009



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

December 10, 2013

City of Douglas
Attn: Tony Tolstedt, City Administrator
P.O. Box 1030
Douglas, WY 82633

RE: 2014 Miscellaneous Water, Sewer and Streets Replacement Project
Application No. 13-484, Converse County

Dear Mr. Tolstedt:

The above application for coverage under **General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and Sewage Collection Systems** consisting of approximately 634 LF 16" C905 DR18 PVC Water Main, 376 LF 8" C900 DR 18 PVC Water Main, Valves, Hydrant Assemblies, 1,384 LF 8" SDR 35 PVC Sewer Main, Manholes, service connections, cleanouts and appurtenances located in the **Section 9, T32N, R71W, 6th PM, Converse County**, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with **Chapter 12, Section 14** of the Water Quality Division Rules and Regulations, in accordance with the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in **Part V, Section O** of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 10, 2018.

This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Please reference Application No. 13-484 in any future correspondence.

If you have any questions, please contact me at either todd.hepworth@wyo.gov or by phone at (307) 777-6183.

Sincerely,

Todd D. Hepworth, P.E.
Assistant Southeast District Engineer
Water Quality Division
TDH/tm/13-1173

Enclosures: Certificate of Completion form

cc: IPS

Thomas Brauer, P.E. Civil Engineering Professionals, Inc. 6080 Enterprise Drive, Casper WY 82609

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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REVIEW OF PLANS AND SPECIFICATIONS

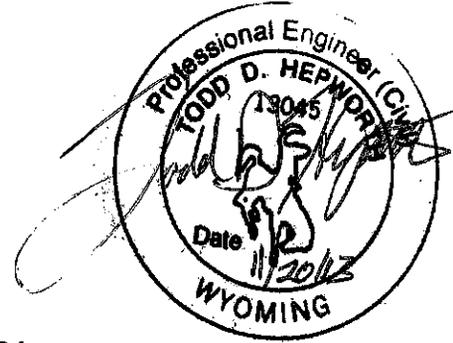
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY / WATER QUALITY DIVISION

122 West 25th Street, Herschler Building 4 West, Cheyenne, Wyoming 82002

PROJECT: City of Douglas 2014 Miscellaneous Water, Sanitary Sewer and Streets
Replacements Project

ENGINEER: Thomas Brauer
Civil Engineering Professionals, Inc.
6080 Enterprise Dr.
Casper, WY 82609

APPLICANT: Tony Tolstedt
City of Douglas
PO BOX 1030
Douglas, WY 82633



WATER QUALITY DIVISION REFERENCE NUMBER: 13-484
REVIEWING ENGINEER: Todd D. Hepworth, P.E.
DATE OF REVIEW: November 20, 2013

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS

Water & Sanitary Sewer Studies

1. The Policy regarding variances on water/sanitary sewer separations (WQD Policy 13.9.7) for parallel installations requires that both pipelines shall be marked continuously for their full length by wrapping with wire or tape. A note to this effect must be included on the plans. Also, the crossings under this variance will need to be backfilled with flowfill for 9-ft along the sanitary sewer on both sides of the water main.
2. Specifications: Chapters 11 & 12 of the DEQ Rules & Regulations require the submittal of technical specifications. Submit stamped & signed specifications for the City of Douglas Amendments to the Wyoming Public Works Standard Specifications.

PROJECT: City of Douglas 2014 Misc. Water, Sanitary Sewer, and Streets Replacement Prj.
DATE OF REVIEW: November 20, 2013

Construction Plans

3. Sheet 2 (General Notes):

- a. Please denote vertical datum on the Plans (WQD Rules & Regulations Chapter 1 Part A, Section 7).
- b. While General Note #7 requires MegaLug restraints on all valves and fittings, please confirm that there will be adequate restraint on the existing and proposed facilities. Of particular note are the transitions from 8" to 16" and 14" to 16" pipe in conjunction with 45-degree bends. It may be appropriate to supplement the MJ restraints with thrust blocks, especially for connections to existing facilities. Ebaa Iron has a joint restraint calculator available online at <http://rlc.ebaa.com/>. It may be necessary to supplement Note #7 and/or denote thrust blocks on the corresponding plan view callouts as well as reference WPWSS Standard Drawing 02665-04 "Minimum Thrust Block Dimensions."

4. Sheets 3 – 9 (All Plan & Profile Sheets):

- a. Regarding the requested variance for less than minimum separation of water & sewer pipelines, please label on plans the proposed separation between facilities, particularly where the separation will be less than 10 feet for parallel facilities.
- b. The submitted Plans' profile views all indicate that the proposed sanitary pipeline facility will be SDR35. Please indicate what sections are proposed to be C900. Sewer pipe material shall be uniform between structures without midsection changes from SDR35 to C900.
- c. The treatment of the existing sanitary sewer is unclear on the plans. Is the contractor to plug each end for abandoning in place? The plans denote intent for the manholes, but no such direction is provided for the actual pipe, particularly at crossings and where the new water alignment is proposed along the same alignment as existing sewer. Provide additional information.
- d. Note that direction is provided on Sheet 4 of 9 for a sanitary manhole to remove cone section and fill with sand, but this note is not consistently made on subsequent sheets, you may want to state this note as (Typ. of X) or consistently place on all such facilities to be abandoned.

PROJECT: City of Douglas 2014 Misc. Water, Sanitary Sewer, and Streets Replacement Prj.
DATE OF REVIEW: November 20, 2013

5. Sheet 3 of 9,

- a. ~Sta 2+50: Provide detail regarding how the existing 4" line is to be extended with a cleanout. (This same detail may apply to similar comments below).
- b. ~Sta 4+00: Show the approximate location of the existing sanitary sewer main crossing the proposed pipeline in the profile view at its computed elevation.

6. Sheet 4 of 9

- a. ~Sta 7+75: There appears to be a connection with a cleanout at this location but no such notation made in plan view. Provide detail regarding how the existing 4" line is to be extended with a cleanout.
- b. ~Sta 11+80: Provide detail regarding how the existing 4" line is to be extended with a cleanout.
- c. ~Sta 11+90: Provide detail regarding how the existing 4" line is to be extended with a cleanout.

7. Sheet 6 of 9:

- a. Why is the pipe being upsized from 14" to 16"? The Water Study does not appear to indicate a hydraulic need. Is this due to material availability and connection to the existing 14" steel pipe – will using 16" versus 14" give an overall cost savings as justification? This is not a requirement regarding permitting, but a general inquiry.
- b. How will the new 16-inch water main be pressure tested against the existing 14"? To isolate the new 16" pipeline, it is suggested that a 14" valve be placed at the point of connection in Washington Park.
- c. ~Sta 2+75: Would there be a cost savings to install the gate valve on the existing 14" pipe rather than a 16" valve (move to other side of the tee)?

8. Sheet 7 of 9:

- a. ~Sta 3+55: For the water line,
 - i. What size Air/Vac valve is proposed?
 - ii. Provide detail of installation.
 - iii. We would prefer to see the Air/Vac valve located outside trafficked areas, using a service saddle, corp stop & service line at the same size as the Air/Vac valve with a positive upslope from corp stop to

PROJECT: City of Douglas 2014 Misc. Water, Sanitary Sewer, and Streets Replacement Prj.
DATE OF REVIEW: November 20, 2013

the valve pit. If kept in the trafficked area, then the Air/Vac intake/discharge piping will need to be connected to the valve with a union and be directed above grade (outside the pit) in a non-trafficked area.

iv. The Air/Vac intake/discharge port piping needs to extend to a minimum of 18" above ground to avoid back-siphoning any unsanitary water in the pit into the pipeline. Additionally, the discharge pipe needs to be down-turned and protected with a 24-mesh corrosion resistant bug screen.

b. ~Sta 3+60: There appears to be an existing sanitary line (service?) that will be connected to the new sewer main. This facility needs to be indicated in the profile view and the crossing should be flowfilled if less than 18" vertical separation.

c. SSMH-13: What is intended as proposed work by the linework immediately downstream of this manhole – is it a cleanout and service connection at the main? Please clarify.

9. Sheet 8 of 9: There are numerous existing sanitary sewer services crossing the proposed water line. These crossings need to be denoted as "flowfill" if less than 18" vertical separation.

10. Sheet 9 of 9,

a. ~Sta 0+50: Please clarify the sanitary sewer connection(s) indicated at this location – is there 1 or 2 and is there a cleanout proposed at this location?

b. Please clarify the intent for the valve for the existing 6" line in 9th Street from the Cedar Street main. For example, will the valves for the existing Cedar Street pipeline be buried (abandoned in place) with the removal of the valve box, or removed as may be required for construction – provide direction to the contractor.

11. Is the contractor to provide bypass pumping for the full length of project? Will this be a pay quantity or incidental to the work?

12. As with the comment above regarding the Specifications, it is noted that detail drawings have been omitted from the plans. If the Wyoming Public Works Standard Drawings have been amended by the City of Douglas, then please provide stamped and signed details pertaining to the project.

END OF REVIEW



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

January 9, 2014

Mr. Greg Tucker
Facilities and Risk Manager
Laramie County School District No. 1
3320 Maxwell
Cheyenne, WY 82001

RE: UIC Permit Application for New Septic System Serving Prairie Wind Elementary School
Facility Number WYS-021-00110, Permit# - 13-485, Class V Injection Wells
Laramie County, Wyoming

Dear Mr. Tucker:

Attached, please find comments developed by the Wyoming Department of Environmental Quality (WDEQ) with respect to the content and adequacy of the Wyoming Water Quality Rules and Regulations, Chapter 13, request for a new Class V Injection Well Permit.

The WDEQ received this request for modification on November 13, 2012 and has until January 13, 2014 to make an initial determination of completeness. Re-submittal of information by an applicant on an incomplete application will begin a new 60 day review process. Pursuant to Chapter 13, Section 6 during any 60 day review period where an application is determined complete, a draft permit for issuance or denial shall be prepared and a public notice provided pursuant to Chapter 13, Section 19.

Please feel free to contact me at (307) 777-6682 should you have any questions related to these comments or the application and review process.

Sincerely,

Kathy Shireve
Environmental Program Principal
Wyoming Department of Environmental Quality
Water Quality Division

Attachments: WDEQ Comments

cc: John Passehl, WDEQ
Clay Muirhead, Terracon Consultants, 1505 Happy Jack Road, Cheyenne, WY 82001



**UNDERGROUND INJECTION CONTROL PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS**

***WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION***

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002
307-777-7781

PROJECT: Application 13-485
Prairie Wind Elementary School – new Class V 5E3 septic system

LOCATION: Laramie County

APPLICANT: Greg Tucker, LSD No. 1 Facilities Manager
3320 Maxwell
Cheyenne, WY 82001

OWNER: Laramie School District No. 1

CONSULTANTS: Clay Muirhead
Terracon Consultants
1505 Happy Jack Road
Cheyenne, WY 82001

GEOLOGIST John C. Graves

ENGINEER Clay Muirhead
Terracon Consultants
1505 Happy Jack Road
Cheyenne, WY 82001

TITLE: *“Permit Application Class 5E3 Domestic Waste Water System Prairie Wind Elementary School North Yellowstone Road and Coonrod Road, Cheyenne, WY”*

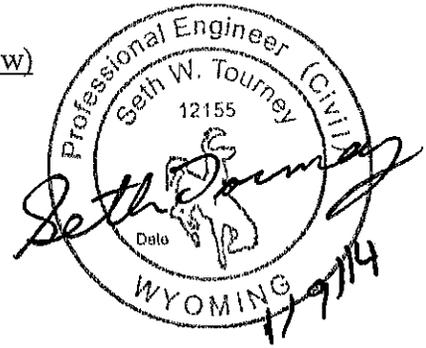
PLANS SPECS PROPOSAL REPORT

DATE ON PROPOSAL/PLANS/REPORT: November 4, 2013

DATE RECEIVED BY WDEQ: November 13, 2013

WDEQ REVIEWERS: Kathy Shreve (permit completeness review)

Seth Tourney, P. E. (engineering review)



DATE OF THIS REVIEW: January 6, 2014

ACTION: Application Incomplete; See Attached Comments
ENGINEERING REVIEW COMMENTS:

1. Please provide the supporting calculations for the estimated flow rate of 4.9 gallons/student/day.
 - a. The estimated flow calculations need to be the maximum day flow rates. As a check, please determine the average flow rate while school is in session, and determine the peaking factor for the estimated maximum flow rate.
2. The estimated flow rate will need to be the estimated flow rate multiplied by the total number of persons. It may be easiest to calculate the estimate flow rate for total number of individuals (rather than only student based).
3. The total estimated flow of domestic sewage was multiplied by .938 factor. Please address this factor in the estimated flow rate calculation referenced in number 1.
4. In Appendix B of Appendix G2 (Geotechnical Engineering Report), the percolation tests do not appear to be conducted in accordance with Water Quality Rules and Regulations Chapter 25 Appendix A. The test does not appear to be terminated when the water drop is consistent for three consecutive measurements, and the water level drop is not measured or the results presented to the nearest 1/8 of an inch. Please conduct percolation tests in accordance with our Chapter 25 Appendix A in the Water Quality Rules and Regulations.
5. On Sheet C 2.31, there is no dimensions shown for the anoxic tank. Please provide dimensions.
 - a. Please demonstrate compliance for scum storage in accordance with Chapter 25 Section 8 (iii) (C) of the Water Quality Rules and Regulations.
 - b. Please provide a section view of the baffle walls (Note: This may impact your scum storage requirement calculations.
 - c. Please demonstrate (with dimensions) that the inlet and outlet baffles extend into the middle third of the tank.
6. On Sheet C 2.31, it appears that the anoxic tank discharge is a pumped system.
 - a. Please provide pump and system curves.
 - b. The septic tank will need to meet alarm requirements of Chapter 11 Section 10 (f) (iv) for alarms.
7. On Sheet C 2.13, it appears that the AdvanTex Unit discharge is a pumped system.
 - a. Please provide pump and system curves.
 - b. The septic tank will need to meet alarm requirements of Chapter 11 Section 10 (f) (iv) for alarms.
8. In the design report, please provide a narrative indicating the purpose for the AdvanTex system and the requirements being adhered to.

9. With this being a school facility, it seems that a grease/oil separator in Chapter 25 Section 8 of the Water Quality Rules and Regulations would be required. Please advise.

PERMIT COMPLETENESS REVIEW COMMENTS

1. According to the "Environmental Monitoring Plan" presented in Appendix H, it appears that groundwater is expected to occur at this facility within 10 feet of the ground surface. Please note that if this is not the case, Laramie County School District No. 1 will be required to extend the proposed monitor wells until they encounter groundwater, or a depth of 100 feet, whichever occurs first.

2. While the proposed location for the up-gradient monitor well is acceptable, the proposed location for the down-gradient well is problematic in that it is, according to the information presented in the permit application, located cross-gradient from the proposed leach field. According to the permit application, groundwater flow at this facility is to the southeast, while the proposed down-gradient monitor well is located almost directly east of the southern-most boundary of the leach field. The down-gradient monitor well location proposed would not allow for environmental monitoring of the potential impact discharges into the leach field might cause. Please review the proposed location for the down-gradient monitor well and adjust as necessary and possible.

END OF REVIEW

KS/SWT/rm/14-0031



Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Matt Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

November 26, 2013

Jim Robinson
Town of Marbleton
10700 Hwy 189
Marbleton, Wyoming 83113

RE: Marbleton - Sleepy Hollow Industrial Park - Water Main - Permit Number 13-486, SW ¼, Section 20, T30N, R111W, Sublette County

Dear Mr. Robinson:

The above application for coverage under **General Permit to Construct** the extension of a **Public Water Supply System** consisting of about 2900 linear feet of 8-inch PVC water main to serve an Industrial Park in accordance with Chapter 3, Section 7 and **Chapter 12, Section 14** of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

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

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne
Dennis S. Smith, P.E., Forsgren Associates Inc., 849 Front St., Ste. 201, Evanston, WY 82930



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

CHANGE OF OWNERSHIP

PERMIT NO. 13-487
SPECIAL CONDITIONS
REF/PERMIT NOs. 95-388 and 98-159

Moxa Arch North Evaporation Cells 1 and 2
Commercial Oilfield Wastewater Evaporation Pond

This permit hereby authorizes the applicant:

Anadarko E&P Onshore, LLC
1099 18th Street, Suite 1800
Denver, CO 80202-1918

to assume ownership of two (2) evaporative pond cells for disposal of oilfield exploration and production wastewaters, according to the procedures and conditions of the application number 13-487, as derived from the reference permit numbers 95-388 and 98-159. The facility is located in a portion of the southeast quarter of Section 25, Township 22 North, Range 112 West, in the county of Lincoln, in the State of Wyoming. The facility is located approximately 14 miles northeast of Opal, Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 1, 2018.

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

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

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

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

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

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

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of this permit, 13-487; referenced permits #95-388 and #98-159 and supporting documents. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

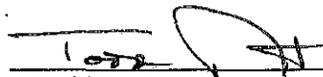
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 6 The applicant will provide immediate oral or written notice to the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, Phone 307-473-3465, FAX 307-473-3458, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 6 Permit to Construct #95-388 was issued for the construction of two evaporation ponds (Cells 1 and 2) and allowed the facility to accept and treat produced water from oil exploration and production activities. Permit to Construct #98-159 was issued to modify the operation of the facility to a commercial facility, allowing for produced water from other operators.
- 3 of 6 The validity of this permit is subject to the owner maintaining a bond acceptable to the State of Wyoming, DEQ/WQD for the amount of the facility closure and post-closure costs. The bonding amount is subject to review on an annual basis. The bond amount may be "phased-in", in accordance to the facility construction. However, prior to construction of any pond, financial assurance must be in place which covers the next construction phase. This additional bonding must be acceptable to the State of Wyoming prior to any construction related to that phase.
- 4 of 6 An annual report will be submitted to DEQ CBM / Oil and Gas Group by April 1 of each year. The annual report will include relevant details of the construction, modification, and operation details of the facility from the previous year, any anticipated construction, modification and/or operational changes for the upcoming year. The report will include a discussion and analysis of the groundwater monitoring, leak detection monitoring and pond analysis. A listing of all non exploration and production wastes accepted by the facility will also be included in the annual report. This listing shall include generator, type of waste, amount and date of disposal. The annual report will also include a review of the closure and post closure requirements, including financial costs. A renewal of the bond will be required as part of the annual report. Reporting requirements are subject to modification by DEQ.
- 5 of 6 All other aspects and requirements of Permits to Construct 95-388 and 98-159 are still valid and need to be adhered to.
- 6 of 6 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Kevin Frederick
Administrator
Water Quality Division



Todd Parfitt
Director
Department of Environmental Quality

11-25-13

Date of Issuance

JDL/KJM/rm/13-1109

STATEMENT OF BASIS

1. Permit Number: **13-487**
2. Application reviewed for compliance with the following applicable regulations :
Chapters 3 and 11 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?
YES
4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.
 - a. The permit includes approval to deviate from the following regulatory requirements:
Not applicable.
 - b. Briefly state the basis for the deviation.
Not applicable.
 - c. Permit approval is based upon deviation from applicable regulations in accordance with approved policy statement.
Not applicable
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was required.
6. If Section 17 of Chapter 3 review is required, indicate the basis for determining groundwater will be protected.

The facility will not allow a discharge to groundwater.

Not applicable for this permit. The original permit #95-388 allowed for the construction of double lined pits, a leak detection system and installation of monitoring wells.

Quality of wastewater is such that it will not cause a violation of groundwater standards.

Not applicable

Existing soils or geology will not allow a discharge to groundwater.

Not applicable

The facility is designed and will be operated so that it will not to violate groundwater standards.

Not applicable

Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

Not applicable

If any groundwater quality standards are to be exceeded, briefly describe how any users of the affected aquifer will be protected. The description should include the water quality standard affected, the

anticipated maximum concentration, the property boundaries, places of groundwater withdrawal and any other relevant information.

Not applicable

Briefly describe monitoring plan. The groundwater monitoring plan includes the monitoring wells or other sampling points, the parameters to be analyzed, the sampling frequency and reporting methods.

Under Operation and Manual for the facility, the leak detection system is checked quarterly. If fluid is found, DEQ will be notified immediately. If a leak is confirmed, the pond(s) will be pumped dry of all wastewater. No additional wastewater will be placed into the pond(s) until a complete inspection and test of the liner is completed.

Groundwater monitoring is conducted on a semi-annual basis and results reported to DEQ within a month after receiving laboratory analytical reports.

Fluids in the pond are to be checked annually for hazardous constituents by collecting a sample from each pond in operation.

Operational concerns will be identified in an annual report to be submitted to DEQ by April 1 of each year. Any changes in operations, a discussion of groundwater monitoring, leak detection system operation, and pond characterization is to be included in the annual report.

The permit should clearly state the parameters to be utilized for determining compliance and what occurrences constitute a violation. The permit should identify the corrective actions to be taken in the event of a violation of a groundwater standard.

Documentation of Statement of Basis.

The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Kim Medina, CBM / Oil and Gas Group and completed on November 20, 2013. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

CHANGE OF OWNERSHIP

PERMIT NO. **13-488**
SPECIAL CONDITIONS

REF/PERMIT NOs. 85-440, 93-327, 01-264, and 04-241

Moxa Arch South Evaporation Pond
Commercial Oilfield Wastewater Evaporation Pond

This permit hereby authorizes the applicant:

Anadarko E&P Onshore, LLC
1099 18th Street, Suite 1800
Denver, CO 80202-1918

to assume ownership of one evaporative pond for disposal of oilfield exploration and production wastewaters, according to the procedures and conditions of the application number **13-488**, as derived from the reference permit numbers 85-440, 93-327, 01-264, and 04-241. The facility is located in the northwest quarter of Section 8, Township 18 North, Range 111 West, in the county of Sweetwater, in the State of Wyoming. The facility is located approximately 3 miles southwest of Granger, Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 1, 2018.

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

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

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

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

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

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

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of this permit, **13-488**; referenced permits #85-440, #93-327, #01-264, #04-241 and supporting documents. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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

- 1 of 6 The applicant will provide immediate oral or written notice to the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, Phone 307-473-3465, FAX 307-473-3458, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 6 Permit to Construct #85-440 was issued for the construction of an evaporation pond for produced water from a gas well. Permit to Construct #93-327 was issued for the installation of an aeration system to enhance evaporation from the pond. Permit to Construct #01-264 was issued for the reconstruction of the pond, including the installation of a liner, leak detection system, and a gas venting system. Permit to Construct #04-241 modified permit conditions related to groundwater monitoring; and the reporting, operation and maintenance of the leak detection system.
- 3 of 6 The validity of this permit is subject to the owner maintaining a bond acceptable to the State of Wyoming, DEQ/WQD for the amount of the facility closure and post-closure costs. The bonding amount is subject to review on an annual basis.
- 4 of 6 An annual report will be submitted to DEQ CBM / Oil and Gas Group by April 1 of each year. The annual report will include relevant details of the construction, modification, and operation details of the facility from the previous year, any anticipated construction, modification and/or operational changes for the upcoming year. The report will include a discussion and analysis of the groundwater monitoring, leak detection monitoring and pond analysis. A listing of all non exploration and production wastes accepted by the facility will also be included in the annual report. This listing shall include generator, type of waste, amount and date of disposal. The annual report will also include a review of the closure and post closure requirements, including financial costs. A renewal of the bond will be required as part of the annual report. Reporting requirements are subject to modification by DEQ.
- 5 of 6 All other aspects and requirements of Permits to Construct #85-440, #93-327, #01-264, and #04-241 are still valid and need to be adhered to.
- 6 of 6 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Kevin Frederick
Administrator
Water Quality Division



Todd Parfitt
Director
Department of Environmental Quality

11-25-13

Date of Issuance

JDL/KJM/rm/13-1110

STATEMENT OF BASIS

1. Permit Number: **13-488**
2. Application reviewed for compliance with the following applicable regulations :
Chapters 3 and 11 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?
YES
4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.
 - a. The permit includes approval to deviate from the following regulatory requirements:
Not applicable.
 - b. Briefly state the basis for the deviation.
Not applicable.
 - c. Permit approval is based upon deviation from applicable regulations in accordance with approved policy statement.
Not applicable
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was required.
6. If Section 17 of Chapter 3 review is required, indicate the basis for determining groundwater will be protected.

The facility will not allow a discharge to groundwater.

Not applicable for this permit. The original permit #85-440 allowed for the construction of a bentonite lined evaporation cell and groundwater monitoring wells. Permit to Construct #93-327 authorized the installation of an enhanced evaporation system at the facility. Permit to Construct #01-264 allowed for the reconstruction of the evaporation cell to include a dual liner system, leak detection system and gas venting system. Permit to Construct #04-241 modified reporting and monitoring requirements for groundwater and leak detection, and for the operation and maintenance of the leak detection system.

Quality of wastewater is such that it will not cause a violation of groundwater standards.

Not applicable

Existing soils or geology will not allow a discharge to groundwater.

Not applicable

The facility is designed and will be operated so that it will not to violate groundwater standards.

Not applicable

Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

Not applicable

If any groundwater quality standards are to be exceeded, briefly describe how any users of the affected aquifer will be protected. The description should include the water quality standard affected, the anticipated maximum concentration, the property boundaries, places of groundwater withdrawal and any other relevant information.

Not applicable

Briefly describe monitoring plan. The groundwater monitoring plan includes the monitoring wells or other sampling points, the parameters to be analyzed, the sampling frequency and reporting methods.

Under Operation and Manual for the facility, the leak detection system is checked quarterly. If fluid is found, DEQ will be notified immediately. If a leak is confirmed, the pond(s) will be pumped dry of all wastewater. No additional wastewater will be placed into the pond(s) until a complete inspection and test of the liner is completed.

Groundwater monitoring is conducted on a semi-annual basis and results reported to DEQ within a month after receiving laboratory analytical reports.

Fluids in the pond are to be checked annually for hazardous constituents by collecting a sample from each pond in operation.

Operational concerns will be identified in an annual report to be submitted to DEQ by April 1 of each year. Any changes in operations, a discussion of groundwater monitoring, leak detection system operation, and pond characterization is to be included in the annual report.

The permit should clearly state the parameters to be utilized for determining compliance and what occurrences constitute a violation. The permit should identify the corrective actions to be taken in the event of a violation of a groundwater standard.

Documentation of Statement of Basis.

The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Kim Medina, CBM / Oil and Gas Group and completed on November 20, 2013. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

X CHANGE OF OWNERSHIP

PERMIT NO. 13-489
SPECIAL CONDITIONS
REF/PERMIT NO. 09-355

Moxa Arch North Evaporation Cell 3
Commercial Oilfield Wastewater Evaporation Pond

This permit hereby authorizes the applicant:

Anadarko E&P Onshore, LLC
1099 18th Street, Suite 1800
Denver, CO 80202-1918

to assume ownership of one evaporative pond (Cell 3) for disposal of oilfield exploration and production wastewaters, according to the procedures and conditions of the application number 13-489, as derived from the reference permit number 09-355. The facility is located in a portion of the southeast quarter of Section 25, Township 22 North, Range 112 West, in the county of Lincoln, in the State of Wyoming. The facility is located approximately 14 miles northeast of Opal, Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 1, 2018.

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

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

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

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

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

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

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of this permit, 13-487; referenced permits #95-388 and #98-159 and supporting documents. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

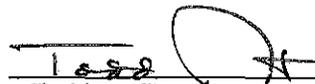
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 6 The applicant will provide immediate oral or written notice to the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, Phone 307-473-3465, FAX 307-473-3458, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 6 Permit to Construct #09-355 was issued for the construction of one additional evaporation pond (Cell 3).
- 3 of 6 The validity of this permit is subject to the owner maintaining a bond acceptable to the State of Wyoming, DEQ/WQD for the amount of the facility closure and post-closure costs. The bonding amount is subject to review on an annual basis. The bond amount may be "phased-in", in accordance to the facility construction. However, prior to construction of any pond, financial assurance must be in place which covers the next construction phase. This additional bonding must be acceptable to the State of Wyoming prior to any construction related to that phase.
- 4 of 6 An annual report will be submitted to DEQ CBM / Oil and Gas Group by April 1 of each year. The annual report will include relevant details of the construction, modification, and operation details of the facility from the previous year, any anticipated construction, modification and/or operational changes for the upcoming year. The report will include a discussion and analysis of the groundwater monitoring, leak detection monitoring and pond analysis. A listing of all non exploration and production wastes accepted by the facility will also be included in the annual report. This listing shall include generator, type of waste, amount and date of disposal. The annual report will also include a review of the closure and post closure requirements, including financial costs. A renewal of the bond will be required as part of the annual report. Reporting requirements are subject to modification by DEQ.
- 5 of 6 All other aspects and requirements of Permit to Construct 09-355 are still valid and need to be adhered to.
- 6 of 6 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Kevin Frederick
Administrator
Water Quality Division



Todd Parfitt
Director
Department of Environmental Quality

11-25-13

Date of Issuance

JDL/KJM/rm/13-1111

STATEMENT OF BASIS

1. Permit Number: **13-489**
2. Application reviewed for compliance with the following applicable regulations :
Chapters 3 and 11 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?
YES
4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.
 - a. The permit includes approval to deviate from the following regulatory requirements:
Not applicable.
 - b. Briefly state the basis for the deviation.
Not applicable.
 - c. Permit approval is based upon deviation from applicable regulations in accordance with approved policy statement.
Not applicable
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was required.
6. If Section 17 of Chapter 3 review is required, indicate the basis for determining groundwater will be protected.
The facility will not allow a discharge to groundwater.
Not applicable for this permit. The original permit #09-355 allowed for the construction of double lined pits, a leak detection system and installation of monitoring wells.
Quality of wastewater is such that it will not cause a violation of groundwater standards.
Not applicable
Existing soils or geology will not allow a discharge to groundwater.
Not applicable
The facility is designed and will be operated so that it will not to violate groundwater standards.
Not applicable
Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:
Not applicable
If any groundwater quality standards are to be exceeded, briefly describe how any users of the affected aquifer will be protected. The description should include the water quality standard affected, the

anticipated maximum concentration, the property boundaries, places of groundwater withdrawal and any other relevant information.

Not applicable

Briefly describe monitoring plan. The groundwater monitoring plan includes the monitoring wells or other sampling points, the parameters to be analyzed, the sampling frequency and reporting methods.

Under Operation and Manual for the facility, the leak detection system is checked quarterly. If fluid is found, DEQ will be notified immediately. If a leak is confirmed, the pond(s) will be pumped dry of all wastewater. No additional wastewater will be placed into the pond(s) until a complete inspection and test of the liner is completed.

Groundwater monitoring is conducted on a semi-annual basis and results reported to DEQ within a month after receiving laboratory analytical reports.

Fluids in the pond are to be checked annually for hazardous constituents by collecting a sample from each pond in operation.

Operational concerns will be identified in an annual report to be submitted to DEQ by April 1 of each year. Any changes in operations, a discussion of groundwater monitoring, leak detection system operation, and pond characterization is to be included in the annual report.

The permit should clearly state the parameters to be utilized for determining compliance and what occurrences constitute a violation. The permit should identify the corrective actions to be taken in the event of a violation of a groundwater standard.

Documentation of Statement of Basis.

The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Kim Medina, CBM / Oil and Gas Group and completed on November 20, 2013. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Matt Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

November 22, 2013

Jerry Thiel
Jerry Thiel and Sons Construction, Inc.
P.O. Box 1566
Cody, WY 82414

RE: J. & K. Subdivision Water Line and Sewer Line Project, Permit No. 13-490, SE ¼, SE ¼, Section 33, Township 53 N, Range 101W, Park County

Dear Mr. Thiel:

This project consists of installing about 632 linear feet of 8-inch water main and about 539 linear feet of 8-inch sewer main to serve a 15-lot subdivision within city limits. The above application for coverage under General Permits to Construct the extension of a public water distribution system has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

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

Sincerely,

James Brough, P.E.
Northwest District Engineer
Water Quality Division

xc: Stephen Payne, P.E., City of Cody, P.O. Box 2200, Cody, WY 82414
David Bergh, P.E., GDA Engineers, P.O. Box 338, Cody, WY 82414
PDF to Cheyenne

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • <http://deq.state.wy.us>

ABANDONED MINES
(307) 332-5085
FAX 332-7726

AIR QUALITY
(307) 332-6755
FAX 332-7726

LAND QUALITY
(307) 332-3047
FAX 332-7726

SOLID & HAZARDOUS WASTE
(307) 332-6924
FAX 332-7726

WATER QUALITY
(307) 332-3144
FAX 332-7726





Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

December 17, 2013

Safeway, Inc.

Attn: Bob Hainlen, Construction Director
6900 S. Yosemite St
Centennial CO 80112

RE: Cole Shopping Center Safeway, Cheyenne,
Application No. 13-491, Laramie County

Dear Mr. Hainlen:

The above application for coverage under **General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems** consisting of installing approximately 1,120 LF 8-inch water main, 5 fire hydrant assemblies, 2 grease interceptors and commercial water services located in the Northeast ¼, Sections 33, T14N, R66W, of the 6th Principal Meridian, Laramie County, also known as Block 5, Mountview Park, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, in accordance with the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **December 17, 2018**.

This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Please reference Application No. 13-491 in any future correspondence.

If you have any questions, please contact me at either todd.hepworth@wyo.gov or by phone at (307) 777-6183.

Sincerely,

Todd D. Hepworth, P.E.
Assistant Southeast District Engineer
Water Quality Division
TDH/rm/13-1204

Enclosures: Certificate of Completion form

cc: IPS

Matthew Erichsen, Kiowa Engineering Corporation, 7175 W Jefferson Ave, Suite 1300, Lakewood, CO 80235
Brad Brooks, Cheyenne BOPU, P.O. Box 1469, Cheyenne, WY 82003

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cole Shopping Center Safeway Water & Sanitary Replacement, Cheyenne

ENGINEER: Matthew Erichsen
Kiowa Engineering Corporation
7175 West Jefferson Ave., Suite 1300
Lakewood, CO 80235

APPLICANT: Bob Hainlen
Safeway, Inc.
6900 S. Yosemite St.
Centennial, CO 80112

WATER QUALITY DIVISION REFERENCE NUMBER: 13-491
REVIEWING ENGINEER: Todd D. Hepworth
DATE OF REVIEW: November 25, 2013



ACTION: **NOT AUTHORIZED FOR CONSTRUCTION**. In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS

Utility Report

1. Please note that DEQ reviews plans for both Water and Sanitary Sewer. While the report and plans indicate no new sewer main construction, the Department of Environmental Quality does review sanitary grease interceptor sizing. Please amend the Utility Report with a section referencing the installation of the grease interceptors. The Utility Report needs to confirm that these proposed facilities meets the minimum sizing requirements of both the City of Cheyenne and WyDEQ Rules & Regulations Chapter 25, Section 8, "Pretreatment."
2. Please amend/supplement the Utility Report to address Backflow Prevention: namely, while the submitted plans indicate adequate protection for site landscaping & the Safeway Building proper, all commercial connections are to include adequate backflow prevention. In part, what we need is documentation in the report under the responsible charge from a Wyoming licensed Professional Engineer that affirms appropriate backflow prevention. What this means is that the stamp affixed to the Design Report will cover the plan(s) submitted by a Landscape Architect (or non-licensed individual). Also, note that the fueling station will require backflow prevention on the domestic consumption tap.

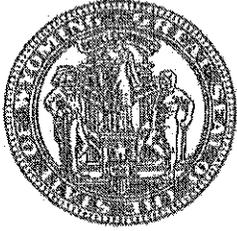
PROJECT: Cole Shopping Center Safeway Water & Sanitary Replacement, Cheyenne
DATE OF REVIEW: November 21, 2013

Improvement Plans

3. Sheet C-143 "Water & Sanitary Sewer Plan" Detail B: Where the sewer line offset callout of 22.1' from the north line of the building is made, there appears to be a symbol on the lip of curb that may indicate a cleanout at this location. The same symbol/mark appears downstream of the grease interceptor south of the building. Please clarify.
4. Sheet C-143 "Water & Sanitary Sewer Plan" Plan View: The plan view indicates both a 4" Fire Service and 2" Domestic Water Service in the general vicinity of "Retail Building SW" on the southern leg of the loop. At the same time, the Utility Report indicates that this building will be served by existing services from Chestnut Drive. Please clarify in the report if these facilities are being installed for Phase II construction and note on the Plans that future Backflow Prevention measures will be required for these facilities when the ultimate development connects to them.

END OF REVIEW

TDH/rm/13-1113



Department of Environmental Quality



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Matt Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

December 9, 2013

William C. Lux
QEP Field Service Warehouse
1955 Blairtown Road
Rock Springs, WY 82901

RE: Rock Springs - QEP Field Service Warehouse -Water Main - Permit Number 13-492, SE ¼, Section 4,T18N,R105W, Sweetwater County

Dear Mr. Lux:

The above application for coverage under General Permit to Construct the extension of a Public Water Supply System consisting of about 423 linear feet of 8-inch PVC water main to serve a fire hydrant and Warehouse in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

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

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne
Brandt Lyman, P.E., JFC Engineers and Surveyors, 1515 Ninth Street, Rock Springs, 82901





Department of Environmental Quality

To protect, conserve, and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

January 3, 2014

Tim Barritt
P.O. Box 827
Upton, WY 82730

RE: Janet Materi Small Wastewater System
Application No. 13-493, Weston County

Dear Mr. Barritt:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1,000 gallon J&D Precast concrete septic tank discharging into three trenches, each approximately 50 feet in length and utilizing Standard Biodiffuser chambers, for a single family dwelling located in the SW ¼ SW ¼, Section 13, Township 47 North, Range 66 West, and further located at 23 Soda Butte Road, Upton, WY, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with Chapter 25 of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2015.

This Notification of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater.
2. Flow-divider tees or a distribution box is required to evenly split flow between trenches. Standard tees are not an adequate substitute for flow-dividing tees.

If you have any questions, please contact me at 307-473-3478.

Sincerely,

Karen L. Farley, P.E.
NE District Engineer
WDEQ/WQD

cc: IPS, Cheyenne
WDEQ Casper File
Weston County, 1 West Main Street, Newcastle, WY 82701
Sam Haptonstall, P.O. Box 51, Upton, WY 82730

Cheyenne
122 West 25th Street 82002
(307) 777-7937

Lander
510 Meadowview Drive 82520
(307) 332-3144

Sheridan
2100 W. 5th Street 82801
(307) 673-9337





Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Matt Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

December 9, 2013

Barry Bryant, Superintendent
Big Horn County School District #3
636 14th Ave. North
Greybull, WY 82426

RE: Greybull Elementary School – Modular Classroom Septic Tank and Pressure Sewer Line Project,
Permit Number: 13-496, Latitude 44.4817, Longitude -108.0492, Big Horn County

Dear Mr. Bryant:

This project consists of installing a 2,000-gallon dual compartment septic tank equipped with a pump and with about 330 linear feet of 1.25-inch pressure sewer line that ties into a gravity sewer line. This project will serve two modular buildings with a total of about 80 students. The above application for coverage under General Permits to Construct the extension of an existing sewer collection system has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 25, Section 8 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

If you have any questions, please contact me at 307-335-6961.

Sincerely,

James Brough, P.E.
Northwest District Engineer
Water Quality Division

xc: Rob Overfield, P.E., Engineering Associates, P.O. Box 1900, Cody, WY 82414
PDF to Cheyenne

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • <http://deq.state.wy.us>

ABANDONED MINES
(307) 332-5085
FAX 332-7728

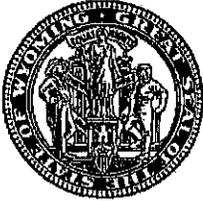
AIR QUALITY
(307) 332-8755
FAX 332-7728

LAND QUALITY
(307) 332-3047
FAX 332-7728

SOLID & HAZARDOUS WASTE
(307) 332-6924
FAX 332-7728

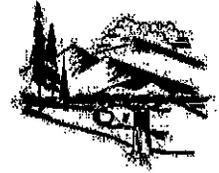
WATER QUALITY
(307) 332-3144
FAX 332-7728





Department of Environmental Quality

To protect, conserve, and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

December 10, 2013

Harold Burch, Jr.
2411 D Road
Moorcroft, WY 82721

RE: Burch Ranch Shop Small Wastewater System
Application No. 13-497, Crook County

Dear Mr. Burch:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 500 gallon Norwesco Polyethylene septic tank discharging into one pipe and rock trench approximately 25 feet in length for a shop building located in the NE $\frac{1}{4}$, **Section 2, Township 53N, Range 68W**, Crook County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with **Chapter 25** of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2015.

This Notification of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater.

If you have any questions, please contact me at 307-473-3469.

Sincerely,

Jason Vreeland, P.E.
Assistant NE District Engineer
WDEQ/WQD

cc: IPS, Cheyenne
WDEQ Casper File (Electronic)
Tim Lyons, Crook County Growth and Development





Department of Environmental Quality

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Matthew H. Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

January 2, 2014

City of Laramie

Attn: Earl Smith, Public Works Director
P.O. Box C
Laramie WY 82073

RE: Cirrus Sky Technology Park -- Phase 1A
Application No. 13-498, Albany County

Dear Mr. Smith:

The above application for coverage under **General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution and Sanitary Sewage Collection Systems** installing water & sewer infrastructure to support development of four "shovel-ready" technology zoned "Super Lots" (approximately 81 acres), including approximately 1925 LF 8" PVC Sanitary Sewer, 6 48-inch diameter sanitary sewer manholes, 8555 LF 24" PVC water main, 2445 LF 16" PVC water main, Pressure Reducing Vault, valves, fittings and appurtenances located in the **North ½ Sections 26 & 27, T16N, R73W, Albany County**, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with **Chapter 12, Section 14** and the sewer collection system in accordance with **Chapter 11, Section 9** of the Water Quality Division Rules and Regulations, in accordance with the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in **Part V, Section O** of the general permit. Additionally, the following project specific conditions also apply:

1. In the event that the water service is accessed for filling water hauling equipment, an air gap or reduced pressure-principal backflow preventions shall be installed and utilized accordingly.
2. In the event that the water service will be accessed for any activity with a high health hazard in accordance with AWWA M14 "Recommended Practice for Backflow Prevention and Cross-Connection Control," the appropriate backflow protection shall be installed and utilized accordingly.

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH
(307) 777-7758
FAX 777-7682

ABANDONED MINES
(307) 777-6145
FAX 777-6462

AIR QUALITY
(307) 777-7391
FAX 777-5616

INDUSTRIAL SITING
(307) 777-7369
FAX 777-5973

LAND QUALITY
(307) 777-7756
FAX 777-5864

SOLID & HAZ. WASTE
(307) 777-7752
FAX 777-5973

WATER QUALITY
(307) 777-7781
FAX 777-5973



3. Section 2665 B.6 – Water tight plugs shall be maintained in all pipe openings in a trench any time pipe laying is not in progress or the trench is unattended.
4. WyDEQ Rules and Regulations Chapter 12, Section 14.b.vii – All dead-end water mains shall be provided with flushing devices which give a velocity of 2.5 ft/sec minimum in the watermain being flushed.

All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **December 31, 2018.**

This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

Please reference Application No. **13-498** in any future correspondence.

If you have any questions, please contact me at either todd.hepworth@wyo.gov or by phone at (307) 777-6183.

Sincerely,



Todd D. Hepworth, P.E.
Assistant Southeast District Engineer
Water Quality Division

TDH/rm/14-0001

Enclosures: Certificate of Completion form

cc: IPS
Cal Van Zee, City of Laramie, P.O. Box C, Laramie, Wyoming 82073

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY / WATER QUALITY DIVISION

122 West 25th Street, Herschler Building 4 West, Cheyenne, Wyoming 82002

PROJECT: Cirrus Sky Technology Park – Phase 1A

ENGINEER: Ryan Swanson (City of Laramie)

PO BOX C
Laramie, WY 82073

APPLICANT: Earl Smith, Public Works Director (City of Laramie)

PO BOX C
Laramie, WY 82073



WATER QUALITY DIVISION REFERENCE NUMBER: 13-498

REVIEWING ENGINEER: Todd D. Hepworth

DATE OF REVIEW: December 10, 2013

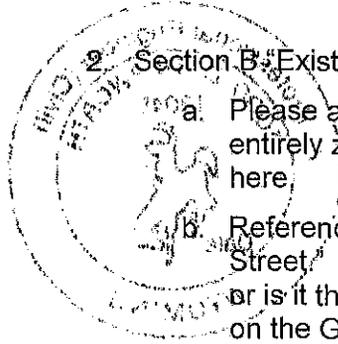
ACTION: **NOT AUTHORIZED FOR CONSTRUCTION**. In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS

Engineering Design Report

1. Section A "Site Location & Description:"

- a. Please add commentary in this section as to how the "Cirrus Sky Technology Park" fits in to the future overall development, such as with reference to Figure 4 of the DOWL HKM Hydraulic Modeling Report found later in the submittal package. This would clarify issues such as the Sewage System discussion referring to "Phase 1A," without any other reference in the Figures.
- b. Expand the Vicinity Map to show the current phase of development in the context of the overall future proposed development (Phases 2 – 4?).
- c. Since the report references specific street names bounding the proposed development, please add an additional figure enlarging the vicinity map to show the limits of the proposed development, such as the map on the cover of the improvement plans.
- d. The "Final Plat Cirrus Sky" included with the improvement Plans indicates that the development is approximately 145 acres with four lots and two outlots. This information is germane to the report and it would be helpful to have additional information regarding outlots in the overall design context.



2. Section B "Existing Conditions:"

- a. Please add commentary regarding site Zoning. It is presumed that the Site is entirely zoned "Technology," but a statement to this effect would be appropriate here.
- b. Reference is made to an elevation of 7294' and "east of the proposed 30th Street." Is this discussion of the site or of the area upslope to the east of the site, or is it the area characterized by the construction of the "Low Swale" as indicated on the Grading Plan? Please clarify.
- c. From the DEQ standpoint, our concern relates to the effects of site development on existing water and sanitary sewerage utilities. Therefore, the Existing Conditions commentary should address the current infrastructure that will be used to provide services. It would be particularly helpful to reference:
 - i. For the water system, the adjoining pressure zones adjacent to the site and the pipe sizes at the point(s) of connection.
 - ii. For the Sanitary Sewer, reference the locations & sizes of the termini of existing facilities.

3. Section C "Proposed Scope & Solutions,"

- a. Since this is the first portion of a larger overall development, please reference that plan here. It would be appropriate to state that "Cirrus Sky Technology Park" is the initial 145 acres of a 2,682 acre development." This helps put the report in context of a larger development, which may direct the overall design considerations used to appropriately size the water & waste water infrastructure for initial and ultimate demand. If the design decisions have been made to serve a limited portion of the overall development, then it would be appropriate to show an exhibit of the service areas that the proposed infrastructure under this development will ultimately serve.
- b. The discussion regarding "the Reynolds Outfall" is confusing without having context from a site map as an exhibit and discussion under "existing conditions." Please provide.

4. Sewerage System, Section A, "Scope & Description,"

- a. Please note that the WyDEQ requirements for sewer analysis are for twice the maximum daily flow (WyDEQ Rules & Regulations Chapter 11, Part B, Section c.i.B). Reference in this section that this design requirement is met or cannot be met. This is especially important with the report document referencing insufficient capacity.
- b. This section indicates that there are existing commitments to serve developments connecting to referenced infrastructure. Please provide an exhibit of where these developments are in relation to the development proposed under the submitted report.

- c. Please state if the existing commitments to serve those developments "external" to this report are their maximum daily flows or the requisite 2x maximum daily flows.
- d. This section makes reference to WYDEQ slope requirements. Is this just in reference to minimum slopes? Are you aware of DEQ Policy 13.9.13 "Very Low Slope Sewer Variance," wherein we may grant approval for slopes less than the stated requirements of Chapter 11, Part B, Section 9, provided that the slope is no less than $\frac{1}{2}$ of the minimum slopes tabulated in Section 9.i.C and the pipe is bedded with Type 1 bedding material? If it will help with future development and is desired by the City, you may want to run an analysis scenario & request a variance, provided the flows meet a minimum 2 ft/sec scouring velocity when flowing full. If so desired, please provide a request for variance as well as documentation from the Public Works Director that his division is willing to maintain such a facility.
- e. Since reference is made to an existing lift station west of Highway 287, please show this facility on the existing conditions exhibit and provide narrative about the lift station. What is its design capacity, does it discharge via force main (size and location?) and where does sewage flow from the lift station?
- f. This section references "Phase 1A" and "Phases 2-4." Is this referring to individual development of the 4 lots shown in the Plat, or of the overall development as shown in the DOWL HKM supplement? The discussion of phasing is confusing without an associated exhibit document or additional discussion under proposed conditions.
- g. This section states:

"With any development, purchasers of the lots of this subdivision would be required to ensure that their sanitary, water & storm sewer systems are usable and conform to flow requirements."

It would be beneficial to enumerate the design assumptions used for the future lot developer's reference. For example, state that the design basis is for "a technology park with anticipated average sanitary flows consistent with xx gpd/acre."

5. Sewerage System, Section B, "Flow Calculations" – this section references the site as 81 acres versus the 145 acres of the Plat included with the improvement plans. Please clarify. *Note that the DOWL HKM supplement also uses the 81-acre figure.*
6. Sewerage System, Section C, "Downstream Impact" – clarify if Phase 2 relates to the differential between the 145 acres of the plat & 81 acres currently considered, or will it be adjoining development (i.e. north of "Asphalt Lane").
7. Sewerage System, Section D, "Acceptance of Flow," makes reference to a memorandum from Utilities Supervisor Cal Van Zee, but this document was not found in the submitted documents. Please submit.
8. Water System, Section A, "Scope & Description,"
 - a. The narrative describes looping the system through the development with a connection to Inca Drive as being sufficient for capacity [and within the

- appropriate pressure zone (Zone 3)]. The DOWL HKM supplement indicates a new PRV in 22nd Street. Please provide additional narrative about the cross connection between the pressure zones and what zone(s) the respective lots of the development will be in. For example, will the entire development be in Zone 3, or will the zone boundary continue through the current (and ultimate) development?
- b. Please provide an exhibit of the proposed development with the existing topography (elevation contours) and HGL's of the respective pressure zone(s).
 - c. There is at least one lot in the development adjacent to supply pipelines that are in two separate pressure zones. That lot's developer(s) needs to be informed that the site is in the City's pressure zones' boundary area and that connecting to either or both water mains for their service will impact their respective site development plans.
9. Water System, Section B "Flow Calculations:" This section introduces that the proposed development will have a positive effect on previously known areas of low fire flow. Rather than introduce the concept here, if the project will address known system issues, present them first under "Existing Conditions."
10. Water System, Section D, "Agreement to Supply:" Please submit the referenced attached memorandum.
11. DOWL HKM Supplement, Section 2.1 – Water System Overview:
- a. This section indicates that the Zone 3 pump station runs continuously and yet also indicates that the storage Tank in Zone 4 can back-feed Zone 3 as needed. Please confirm the assertion that the pumps run continuously and provide additional detail regarding the pumps – are they constant speed or VFD units and do the pumps have adequate backup power?
 - b. Provide additional information about the storage tank in Zone 4. What is the reserve storage capacity and can it meet the Maximum Day + Fire Flow for the existing conditions plus the anticipated maximum day demand for this development, if this tank is intended to address storage needs for the Cirrus Sky Technology Park improvements.
 - c. Please address how the current system configuration meets adequate backup power requirements to provide service to the proposed development.
12. DOWL HKM Supplement, Section 2.2, Hydraulic Analysis:
- a. Are there any bottlenecks identified in the present system configurations near the points of connection that should be addressed for adequate service?
13. DOWL HKM Supplement, Section 2.4, System Capacity:
- a. What is the current system capacity at the treatment plant and what the remaining capacity will be in the post-development condition? What percentage of the "surplus capacity" of the current configuration does the proposed development obligate? It would be helpful if this were included in the same format as the data provided in Table 2, "Existing and Future Peak Day Water Demands."

- b. This section states "The capacity of the City of Laramie's water system is as follows: 1,090 gpm peak hour and 3,180 gpm fire flow." If this is at the referenced termini of Inca Drive, please expand the statement to "The capacity of the City of Laramie's water system at this location is as follows:". Otherwise, this statement appears to indicate that the numbers provided are the remaining capacity for the overall City.
 - c. Please expand on the assertion that the "fire flow capacity number above does not allow for additional future peak day demand." Is this meant to state that there is only 180 gpm "surplus capacity" of which the proposed development will consume 111 gpm for the peak day specifically the City's water pressure zone #3, or is this city-wide?
 - d. Please provide narrative regarding the decision to install a 24-inch pipeline. What factors led the decision to use this size pipe? (Is it a desired 3,000 gpm on Asphalt Lane, which is inferred from the text following Table 5 on page 6? If so, state this design parameter explicitly.
14. DOWL HKM Supplement, Section 3.3, Sewer Model Development and Updates: This section indicates that wintertime treated water consumption values were used for the generation of system demands. However, what loading is used in the sanitary model to represent Infiltration and Inflow (I&I)?
 15. DOWL HKM Supplement, Section 3.4 Hydraulic Analysis: Note that while WyDEQ Rules and Regulations Chapter 11, Part B, Section 9.c.i.b requires sizing for 200 percent of maximum daily flow, or more, the proposed analysis appears to not only meet, but exceed this requirement. Rather than use a Peak Hour flow analysis, what happens when twice the "Maximum Day" used (or roughly 3.5x average daily flow versus 4.0x average daily flow)? It would seem that such an analysis would indicate additional capacity in the Reynolds Street main line for both the proposed development and the committed subdivision flows.
 16. DOWL HKM Supplement, Section 3.4.2, System Capacity: Please expand this section to also identify the capacity of the City's WWTP plant - what percentage of that capacity is currently used and how much capacity the proposed development will consume. At full build-out, does the existing WWTP have sufficient capacity to serve the development?
 17. DOWL HKM Supplement, Section 3.4.(5?) – While the design model evaluates the development scenario of Cirrus Sky Technology Park developing first, prior to the eventual development of committed flows for parallel/upstream platted subdivisions, the plans present the construction of a pipeline for use in the ultimate connection to a [presumed] future "Cirrus Sky outfall." What happens in the model if the flows upstream of the point of connection (Lot 1 Block 2 and Lot 1 Block 3) for this "future" pipeline are re-directed and the other 2 lots continue to flow to the Reynolds Outfall via the 22nd Street pipeline? It seems that this analysis should be presented to justify the proposed future/alternate facility installation.
 18. DOWL HKM Supplement, Figure 1 – Please highlight on this exhibit the additional subdivision lots (Laramie Ridge Estates) that the City has a commitment to serve (since this region is specifically mentioned within the report document).

19. DOWL HKM Supplement, Figure 2 – It would be helpful to supplement this figure with a topographic map (as an additional figure), such as with a USGS quad map with the pressure zones and their respective HGLs, provided that the HGL & the map are on the same datum.
20. DOWL HKM Supplement, Figure 3 – Call out the proposed pipe sizes for the proposed development on this document.

Improvement Plans

1. Sheets FP-1/2:
 - a. These sheets / Plat should be signed by the Surveyor.
 - b. What document creates the "Asphalt Drive" right-of-way? The plat does not appear to demonstrate the ROW establishment.
 - c. There appears to be an existing secondary electric line (observed from aerial imagery) along what would be the south side of the "Asphalt Drive" right-of-way that may have an existing utility easement. Since there are proposed hydrants on the south side of "Asphalt Drive," if there is an existing utility easement, does that easement holder approve of the proposed facility / hydrant locations?
2. Sheet EX-1:
 - a. For the existing conditions & topography, please label the contour lines in the northeast section of the site. Please make sure that the contour labels near the center of the page are legible.
 - b. Please make sure that the utility pipe sizes for the existing facilities are at a legible scale, especially at proposed points of connection.
3. Sheet GR-1 (and subsequent sheets):
 - a. Please include the proposed site boundary / limits of construction.
 - b. Show any existing utility easements across the site that may affect the proposed grading/construction.
 - c. Please note proposed street names and proposed rights of way in all plan views.
4. Sheets ER-1 through ER-3: Please confirm that the site has an appropriate WYPDES Storm Water Permit and note hereon that the Contractor to comply with all the permit terms and conditions. The DEQ Water Quality Permit 13-498 is separate from the WYPDES Storm Water program.
5. Sheets SS-1 & SS-2: Please add Water and Sanitary Pipeline utility crossings to these sheets in the profile views to ensure clearances. Note that there appears to be conflicts:
 - a. With existing storm in 22nd Street, South of Trabling Lane at approximately Sta 2+60;
 - b. With an existing water main valve and Storm Sewer Inlet lateral line just south of Beaufort Street.
 - c. Please clarify what is happening with the sanitary sewer – the proposed sewer is shown at the right end of the profile, but not for the full run, if not shown fully,

then I suggest not showing it at all to improve clarity, or add reference note "See Sheets SA-1 and SA-2..." as appropriate.

6. Sheet SS-2:

- a. Note that the pipeline to the east of 22nd Street is not shown with a profile view. Please profile and show clearances from the sanitary pipeline.
- b. For this same pipeline above, note that there appears to be a conflict between the inlet on the north side of Cumulus Drive & east of 22nd Street and the proposed water main. Please revise the water line location for adequate clearance from the structure.

7. Sheets SA-1 & SA-2:

- a. Be advised that WyDEQ Rules and Regulations, Chapter 11, Part B, Section 9(d)(iii) requires that drop manholes be constructed where the elevation drop between the influent and discharge pipes exceeds 24" & that concrete encasement shall be provided around the drop pipe. While the details indicate using a drop manhole in these situations that appears compliant with this requirement, please provide a note on the plans with the manhole call-outs for those structures which are to be constructed as drop manholes. (You may also want to call these out separately on plans' quantity summary sheet.)
- b. Please confirm that all manholes with builds greater than 20-ft from rim to invert comply with all applicable OSHA safety requirements.

8. Sheet SA-1: Please show the existing structure MH SAN 22-A in the profile view. Additionally, since this would be a "drop manhole" you might note the structure specifically as "retrofit with internal drop" for optimal bid price.

9. Sheets WA-1 & WA-2: Per WyDEQ Rules and Regulations, Chapter 12, Section 14.g.(i): Please ensure 10-ft minimum separation from the proposed water & storm sewer pipelines along the 22nd Street alignment between Stations ~16+00 & 21+40.

10. Sheets WA-1 through WA-11:

- a. Note that these sheets appear to lack sufficient elevation information at either fittings or vertical deflection points for construction. While not required by DEQ, you may want to provide elevation data for the proposed water main facilities, such as the profile data band and key-point callouts.
- b. Note that several callouts are xx.xx' of ___ at y.yy% - you may want to complete these annotations for the diameter and material. This occurs in both plan & profile views.

11. Sheet WA-2: Per WyDEQ Rules and Regulations, Chapter 12, Section 14.c – The Technology Park is considered a "Commercial District," such that the water main gate valve spacing shall not exceed 500-ft intervals. (Note ~645-ft spacing proposed). If this spacing is more logical due to intersections, and the City's Public Works department is willing to maintain, please advise if you seek a variance for this spacing.

12. Sheet WA-3:

- a. Please denote the end of proposed construction / future construction on this sheet (if any) or show the full pipeline in profile view.

- b. Per WyDEQ Rules and Regulations Chapter 12, Section 14.b.(vii) – Please confirm that a standard 2" blowoff will provide an adequate flushing velocity of 2.5 fps in the main.
 - c. Per WyDEQ Rules and Regulations Chapter 12, Section 7.c.(i) – Please show existing/proposed right-of-way for the pipeline plan view.
13. Sheets WA-4 through WA-11:
- a. The note above regarding 500-ft maximum valve spacing also applies to the 24-inch facility.
 - b. Please be advised that not all hydrant assemblies consistently call out the use of 24"x24"x6" Swivel Tees.
 - c. The use of matchlines & reference callouts would aid in cross-referencing sheets.
14. Sheets WA-6 & WA-7:
- a. The cross at this location appears to be the high-point for the proposed 24-inch pipeline. Per WyDEQ Rules and Regulations, Chapter 12, Section 14.e.(i) – Distribution lines 16 inches require provisions for air relief. While this section references hydrants for 6-inch and 8-inch facilities, a 24"x24"x6" swivel tee will trap air in the upper portion of the pipeline, possibly restricting flow. Please provide suitable air relief in this vicinity.
 - b. Per WyDEQ Rules and Regulations Chapter 12, Section 7.c.(i) – Please show existing/proposed right-of-way for the pipeline plan view.
15. Sheet WA-7:
- a. Please denote the end of construction regarding where the proposed work under this work ends along Cumulus Drive towards the facility shown on Sheet WA-3.
 - b. Please confirm adequate restraint for the combination of tee, reducer & valves in this vicinity.
16. Sheet WA-8: ~Sta 31+30:
- a. Please provide detail regarding how the existing well spur line and the proposed 24-inch pipeline will cross, particularly regarding minimum vertical separation if the 18" Well Spur Transmission line is non-potable. Additionally, air release may be required at this location for either facility depending which crosses under the other.
 - b. Per WyDEQ Rules and Regulations Chapter 12, Section 7.c.(i) – Please show existing/proposed right-of-way for the pipeline plan view.
17. Sheet WA-9: Please show the existing 18-inch PVC Well Spur transmission main west of the intersection with 30th-Street in the profile view and call this facility out in the plan view.
18. Sheets WA-9 through WA-11: It is noted that there is a proposed construction easement and a proposed permanent easement. For the locations where the proposed facility is "up against" the edge of the permanent easement, please advise as to how you will maintain this facility. Is there sufficient space for future excavation without adverse impact to the area not included in the easement?

19. Sheet WA-10: Please confirm adequate joint restraint at the combination of the 45-degree fitting and 24" gate valve.
20. Sheet WA-11: At the transition from the proposed 24-inch to existing 16-inch piping, the proposed concentric reducer will result in trapping air in the 24-inch facility. Either provide an air release or use an eccentric reducer (flat-side up) to prevent trapping air at this location. Based on the callout for the downslope on the proposed 16" section, this may also be a high point that would require an air release valve.
21. Sheet DT-6: For the 30th Street vault relocation detail
 - a. Modify the callout for #4 Stainless Steel Screen to be 24-mesh (0.71mm versus 4.75 mm) for adequate prevention from bugs & insects in the vent piping.
 - b. The detail is confusing regarding how the ARV is to be supported in the vault. The top right section of the detail makes it appear unsupported and the bottom view appears to provide support as if over the top of the pipeline.
 - c. Add a note to require a "positive up bubble" on the Type K copper tubing to ensure that the discharge pipe does not become an air trap.
22. Sheet DT-7: The provided detail presents potential concern for maintenance access.
 - a. Per WyDEQ Rules and Regulations Chapter 12, Section 8.h: Please confirm that the structure meets OSHA requirements for:
 - i. Access (alternating tread stairs, handrail, handrail extension to landing). Is the proposed facility compliant?
 - ii. Lighting.
 - b. Per WyDEQ Rules and Regulations Chapter 12, Section 8.k, "Ventilation." This section requires forced air ventilation with no less than 6 complete air exchanges per hour. The 4" vent pipe provided may falsely give a sense of security regarding vault air quality, especially with the vent opening in close proximity to any air quality testing prior to confined space entry.
 - c. The PRV vault can be treated as similar to a pumping facility under WyDEQ Rules and Regulations Chapter 12, Section 12. This section addresses concerns such as floor slope (2-1/2" per 10-ft), equipment servicing, ladders and stairways, heating, ventilation and lighting.
 - d. Note that with the elevation changes in the proposed pipe fittings, there needs to be an adequate air release valve(s) within the vault.
 - e. Please confirm adequate structural support in the vault ceiling to support the proposed loading from supported equipment, including the proposed chain hoist and appurtenances.
 - f. Please provide detail regarding the proposed chain hoist in general and confirm that it meets regulations for a rated capacity.
 - g. Please provide detail for the hatch. Make, Model, opening direction, mounting, and such should be provided.

END OF REVIEW

TDH/rm/13-1172



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

NOTIFICATION OF COVERAGE

December 31, 2013

City of Laramie

Attn: Earl Smith, Public Works Director
P.O. Box C
Laramie WY 80273

RE: City of Laramie Standard Specifications & Standard Detail Drawings
Application No. 13-499, Albany County

Dear Mr. Smith:

The Wyoming Department of Environmental Quality (DEQ) / Water Quality Division (WQD) has completed the review of the City of Laramie Standard Specifications and Details, 2013, and find that they meet the minimum State standards for **water and sewer line construction**. Any further additions or deletions to these construction standard specifications will require review by this Division to ensure continued compliance with State Standards.

This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp

This Notice of Coverage extends to the Standard Specifications and Detail Drawings to facilitate their use in future projects and does not grant coverage for specific projects or supplant the need for the City of Laramie to submit applications for coverage of future construction projects.

Sincerely,

Todd D. Hepworth, P.E.
Assistant Southeast District Engineer
Water Quality Division

TDH/rm/13-1233

cc: IPS
Cal Van Zee, City of Laramie, P.O. Box C, Laramie, Wyoming 82073

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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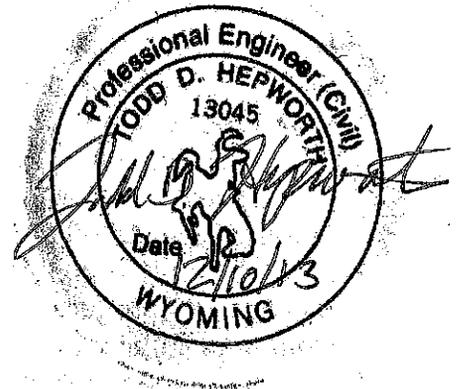
REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Platte County Nursing Care and Assisted Living Facility

ENGINEER: Wayne W Harris, P.E.
Martin / Martin
12499 W. Colfax Avenue
Lakewood, CO 80215

APPLICANT: Rex E. Johnson
Joe Johnson Co. / Michael Bensky (Boulder Associates)
PO BOX 69
Wheatland, WY 82201



WATER QUALITY DIVISION REFERENCE NUMBER: 13-500

REVIEWING ENGINEER: Todd D. Hepworth, P.E.

DATE OF REVIEW: December 10, 2013

ACTION: **NOT AUTHORIZED FOR CONSTRUCTION** In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS

Water Letter

1. While the letter generally serves the intent of WyDEQ Rules and Regulations, Chapter 12, Section 6, "Engineering Design Report," please supplement this letter with the referenced "Water Design & Demand" as determined by Cator, Ruma & Associates for validation as well as pertinent water model data for the Site. We require sufficient information to evaluate/validate the hydraulic analysis and system modeling used. See Chapter 12, Section 6.a for Engineering Design Report requirements.

Sewer Engineering Design Report

2. Please note that the "Water Letter" does not sufficiently address the development's sanitary sewerage discharge. Please submit documentation meeting the conditions of WyDEQ Rules and Regulations Chapter 11 Part A, Sections 6.b.ii (current and projected average, maximum day and peak flows for the design of the project, per capita design flows, extraneous flows, food preparation & laundry) and 6.b.iii (downstream impact on existing sewers and capacities of downstream facilities).
3. Per WyDEQ Rules and Regulations Chapter 11 Part A, Section 6.b.iv, please provide a letter of acceptance from the City of Wheatland Public Works or Sewerage District stating ability to serve the Site.
4. Note that per WyDEQ Rules and Regulations, Chapter 11, Part B, Section 9.c.i.B: Sewer Collection lines must be sized for 200% of the maximum daily flow and no less than 6" for collection lines. [Per Chapter 11, Part B, Section 9.c, a sewage collection line is any conduit that carries wastewater that originates from a single building that generates more than 2,000 gpd of average daily flow.]

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5. Per WyDEQ Rules and Regulations, Chapter 11, Part B Section 9.d, Sewer Collection Lines require manholes at changes in horizontal and vertical alignment. Depending on the interior plumbing of the building and the associated discharge flow rates from the two service connections, it may be possible that the individual connections would be considered "service connections." The threshold is 2,000 gallons per day. If the "southwest connection" is over 2,000 gpd, then this run would be considered a collection line and would require a manhole at the bend from westerly to northerly flow. If the "southwest connection" is under 2,000 gpd then the proposed two 45-degree bends and cleanouts serving the southwest wing of the building would be sufficient. However, at a minimum, a manhole will be required where flow from the two connection points flow join. This point should be addressed in the Engineering Design Report for sanitary sewer.

Construction Plans

6. Additional Sheets required:
- Per WyDEQ Rules and Regulations Chapter 12, Section 7.c.ii: Please provide profiles of all water lines showing existing & finished surfaces, pipe size & material, valve size, and other utility (storm drainage & sanitary sewer) crossings.
 - Per WyDEQ Rules and Regulations Chapter 11, Part A Section 7.b.ii: Please provide profiles of all sanitary sewer lines.
7. Sheet C200:
- While the survey indicates a benchmark with elevation, the plans must indicate the datum used per WyDEQ Rules & Regulations Chapter 11 Part A Section 7.a.
 - Since this sheet indicates an existing 6-inch water line crossing the Site, is there any existing associated easement to be vacated for construction.
8. Sheet C700:
- This sheet appears to indicate that the proposed water main (as well as other at-grade improvements) north of the building will be on adjoining property. If the proposed improvements are installed on adjoining property, and that property is not owned by the applicant, then please provide easement documentation regarding right of entry and authorization to construct the proposed facilities.
 - Please provide additional information regarding the disposition of the abandonment of the existing water main. Specifically regarding the abandonment within/at the 19th Street right-of-way, it is suggested that the existing valve for the line to the east (across the site) be closed and abandoned in place with the valve box removed to prevent confusion as a main-line valve for the 19th street pipeline.
 - Both the domestic and fire service lines need to be provided with suitable backflow prevention devices in accordance with WyDEQ Rules and Regulations Chapter 12, Section 14.i "Cross-Connections." If these facilities are to be located inside the proposed building, please provide the applicable mechanical/plumbing sheet(s).

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9. Sheet C800: For the cleanout detail, Per WyDEQ Rules and Regulations Chapter 11, Part B, Section 9.d: The cleanout(s) are to be of the same size as the sanitary sewer pipe served.
10. Sheets C802 & C803:
 - a. Please revise details from Denver Water to Wyoming Public Works Standard Specifications' detail drawings. Or, if the engineer of record prefers to use these details, strike the Denver Water approval signatures and title block information from the respective details.
 - b. Note that City of Wheatland water valves open left, not right as shown in the provided detail. Please confirm this detail with City of Wheatland Public Works for their approval for installation.

Civil Detail Specifications

11. As an "FYI," while not mandatory, use "by reference" of the Wyoming Public Works Standard Specifications, previously approved by WyDEQ, would facilitate future reviews.
12. As commented above, it is questionable that the City of Wheatland will accept a "right-opening" gate valve, as required in your specifications section 331100.2.4.C.2 & 2.4.C.3. While the specifications place the onus on the contractor, it is suggested that this requirement be modified to "open left."
13. Per WyDEQ Rules and Regulations Chapter 12, Section 14.h.vii, "Pressure and Leakage Testing," note that the submitted specifications section, Section 331100: 3.11.C.4 does not meet requirements. The proposed statement of allowable leakage shall conform to AWWA C605. Using AWWA C605-05 EQ-1 ($Q=L*D*\text{Sqrt}(P)/148,000$) yields the following values for allowable leakage per 1000-ft of pipe in GPH:

Pressure (psi)	Nominal pipe diameter in Inches				
	6	8	10	12	18
200	0.57	0.76	0.96	1.15	1.72
175	0.54	0.72	0.89	1.07	1.61
150	0.50	0.66	0.83	0.99	1.49
125	0.45	0.60	0.76	0.91	1.36
100	0.41	0.54	0.68	0.81	1.22

Note that AWWA C605-05 does not reference a distinction between 18-ft and 20-ft joints of pipe. If there is a more current edition (2011?) that makes this distinction, please provide documentation in your response comment letter.

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14. If not covered under your section 331100, please provide the applicable specifications used for backflow prevention from the plumbing section(s).

15. Section 333100.3.17.C.2: Per WyDEQ Rules and Regulations Chapter 11, Part B, Section 9.b.v: The infiltration test referenced in part 2.a (page 333100-14) meets the requirements for infiltration testing maximum flow of 200 gal/inch diameter/mile/day, but needs to include a statement that this maximum rate is at a minimum hydrostatic pressure of 2-ft of head over the top of pipe. Please revise to include this requirement.

If you would like an electronic copy of this document for use in preparing your response comment letter, please contact me at the email address below.

END OF REVIEW

TDH/rm/13-1174