



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

John Corra, Director

NOTIFICATION OF COVERAGE

June 11, 2012

Mayor Shawn Tabke
Town of Hulett
P.O. Box 278
Hulett, WY 82720

RE: Town of Hulett, Commercial Park; 2012 Water and Sewer Improvements
Location: NE ¼, NE ¼, Section 12, Township 54 North, Range 65 West, Crook County
Permit # 12-051

Dear Mr. Tabke:

The above application for coverage under General Permits to Construct the extension of a Public Water Supply System and the extension of a Public Sewage Collection System, to provide for the installation of water and sewer lines to service 4 new commercial lots, in accordance with Chapter 3, Section 7 and Chapter 11 and Chapter 12 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the 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 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

All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2013.

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

Sincerely,

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

cc: PDF to Cheyenne
WDEQ Casper File
Ken Rathbun, P.E., Bearlodge Engineering and Surveying, P.O. Box 130, Sundance, WY 82720
Tim Lyons, Crook County Growth and Development



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: Town of Hulett Commercial Park
LOCATION: Hulett, Wyoming
ENGINEER: Ken Rathbun, P.E., Bearlodge Engineering and Surveying
APPLICANT: Town of Hulett

WATER QUALITY DIVISION APPLICATION NUMBER: 12-051

DATE ON PROPOSAL/PLANS/REPORT: February 20, 2012

DATE RECEIVED BY DEQ: February 23, 2012

DATE OF THIS REVIEW: March 21, 2012

WDEQ REVIEWER: Jason Vreeland, P.E., 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 11, Section 9(c)(i) – The design report, page 1, states that 8-inch PVC SDR-35 sewer line is to be installed; both Table 1 on page 2 and Sheets 3&4 both show 10". If 10" is proposed, please justify the sizing. With such low flows, this main will need additional maintenance to keep it clear of obstructions. Please address.



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Matthew H. Mead, Governor

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

John Corra, Director

March 21, 2012

Ken Rathbun, P.E.
Bearlodge Engineering and Surveying
P.O. Box 130
Sundance, WY 82720

RE: Town of Hulett Commercial Park
Location: NE ¼, Section 12, T. 54 N, R. 65 W, Hulett, WY
WDEQ Application #12-051

Dear Mr. Rathbun:

We have completed our review of the permit application submitted on February 23, 2012. Attached you will find a summary of the review comments. Please provide the information requested as soon as possible. Please feel free to contact Jason at (307) 473-3469 or Karen Farley at (307)-473-3478 should you have any questions related to these comments or the application and review process.

Sincerely,

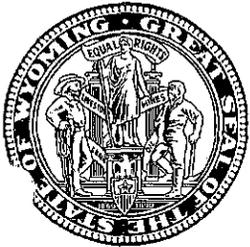
Jason Vreeland, P.E.
Assistant Northeast District Engineer
WDEQ/WQD

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

Attachments: WDEQ Comments

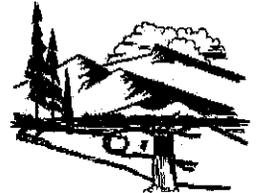
cc: Shawn Tabke, Town of Hulett, P.O. Box 278, Hulett, WY 82720
IPS
WDEQ File





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

John Corra, Director

October 11, 2012

U.S. Dept. of the Interior
Attn: Ms. Nancy Ward, PE
National Park Service, P. O. Box 168
Yellowstone National Park, WY 82190

RE: South Entrance Government Area, Class V Septic System
Final Permit **12-052**, Facility ID #WYS-039-023
Teton County, Wyoming

Dear Ms. Ward:

Attached please find one copy of the Class V permit. This permit does not currently require environmental sampling during the reporting year. The requirements for monitoring and reporting are included in Section I of the permit.

The permit application, draft permit, final permit, and public notice, are available for review on the GEM website, <https://gem.wqd.apps.deq.wyoming.gov/default.aspx>.

The underground injection control program was promulgated to prevent serious problems caused by direct discharges to the groundwater. Those problems included groundwater pollution leading to contamination in domestic water wells and serious health affects caused by exposures to toxic substances and water borne pathogens. Your cooperation with our program is sincerely appreciated.

If you have any questions please do not hesitate to contact me at (307) 777-8275 or by email at nicole.twing@wyo.gov.

Sincerely,

Nicole Twing, P.G.
Wyoming Department of Environmental Quality
Project Geologist
Water Quality Division

NT/rm/12-0937

Enclosure: Final Permit

cc: John Passehl - WDEQ



STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND INJECTION CONTROL PERMIT ISSUED UNDER
WYOMING WATER QUALITY RULES AND REGULATIONS
CHAPTER 16

CLASS V INJECTION WELL

() New
(X) Modified (Renewal)

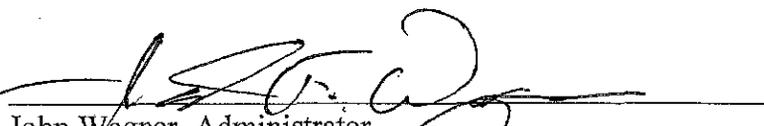
Permit Number: **12-052**
Facility Number: WYS-039-023
State Subclass: 5E3
Previous Permit Number: 5E3-98-1

In compliance with the Wyoming Environmental Quality act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a)(iv), Laws 1973, Ch. 250, Section 1) and Wyoming Water Quality Rules and Regulations, Chapter 16.

Applicant: U.S. Dept. of the Interior (South Entrance Government and Residential Area)
National Park Service, P. O. Box 168
Yellowstone National Park, WY 82190

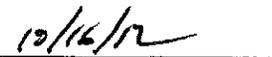
The National Park Service, hereinafter referred to as the permittee, is authorized to operate the septic systems located at the **South Entrance Government and Residential Area** in the SE1/4 of Section 9, Township 48 North, Range 115 West of the Sixth Principal Meridian, in Teton County, Wyoming. The permittee is allowed to operate the facility according to the procedures, conditions, and requirements of this permit.

This permit shall become effective on date of issuance.


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


Date


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


Date

NT/rm/12-0937

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A. Discharge Zone

This injection facility (sanitary leachfield) is authorized to inject, at ambient air pressure, up to 2,826 gallons per day average and 4,710 gallons per day maximum combined total from three sanitary leachfields. Leachfield #1 (Bunkhouse) is authorized to discharge up to 1,080 gallons per day average and 1,800 gallons per day maximum from two residential buildings with 12 bedrooms total. Leachfield #2 (Seasonal Housing) is authorized to discharge up to 1,674 gallons per day average and 2,790 gallons per day maximum from three seasonal residences, two mobile homes, four RV sites with hook-ups, and a self-serve laundry facility. Leachfield #3 (Ranger Station) is authorized to discharge up to 72 gallons per day average and 120 gallons per day maximum from a four employee ranger station. The primary treated wastewater is discharged into three leachfields located south of the seasonal housing and bunkhouse, and north of the ranger station and completed within alluvial terrace or outwash deposits. Depth to groundwater in the vicinity of the leachfield is estimated to be greater than 100 feet, based on information from drilling and excavations in the area.

B. Well and Area of Review

The injection systems authorized by this permit are located as follows:

These septic systems are located in SE/4 of Section 9, Township 48 North, Range 115 West of the Sixth Principal Meridian, in Teton County, Wyoming.

The Area of Review is defined as a circular area of 360 acres with the injection facility located near its center.

The Area of Review is based upon the following assumptions:

Table 1 (Area of Review Inputs)

Description	Inputs	Units
Permit Duration	10	Years
Porosity	20	Percent
Maximum Injection Rate	4,710	GPD
Thickness of Receiver	Variable, 2 to 15	Feet
Area of Review	360	Acres
Hydraulic Conductivity	5	Feet/Day

C. Groundwater Classification

The groundwater in the unnamed alluvial aquifer has not been classified according to Wyoming Water Quality Rules and Regulations, Chapter 8. Due to the remote and pristine nature of the facility location, there are no existing uses of groundwater within the area of review (AOR), and ambient groundwater quality cannot be determined. Based on modeling of nitrate loading using the Wehrmann Model (according to Wyoming Water Quality Rules and Regulations, Chapter 23), operation of the facility will not result in a violation of Class I, II, III or IV groundwater quality standards at any point of groundwater withdrawal outside of the AOR. In the event that groundwater use begins within the AOR, the permittee will be required to classify the groundwater by constructing at least one (1) down gradient monitoring well.

Groundwater of Class I shall not be degraded to make it unusable as a source of water for this purpose. An aquifer that contains less than 10,000 mg/L total dissolved solids (and is not exempted) can be considered an underground source of drinking water.

D. Authorized Operations

The operator is authorized to inject at a pressure of no more than atmospheric pressure as measured at the leachfields. These systems are controlled by gravity drainage and pressures are not required to be monitored. The wastewater is produced from; seasonal housing, a 4-plex residence, a duplex residence, seasonal mobile homes, RV sites with hookups, laundry, and Park Ranger Station. The wastewater is injected into an unconfined alluvial deposit. The wastewater is described as primary treated domestic sewage.

E. Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined in 40 CFR 261.3 and in Wyoming Solid Waste Management Rules and Regulations, Chapter 2. Injection of any substance defined as a hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

F. Proper Operation and Maintenance

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. The permittee shall operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes: effective performance, adequate funding, operator staffing and training, and laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit. The injection and monitor wells covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapters 11, 16 and 25.

The permittee is required to operate in accordance with statements, representations and procedures presented in the complete permit application and supporting documents as accepted and approved by the Administrator. Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued. Injection into a well may not begin until construction is complete and the permit is approved.

G. Entry and Inspection

The permittee shall allow the Administrator (upon presentation of credentials and during normal working hours) to enter the premises where a regulated facility is located, or where records are kept under the conditions of this permit and inspect and photograph the discharge and related facilities, review and copy reports and records required by this permit, collect fluid samples for analysis, measure and record water levels, and perform any other function authorized by law or regulation.

H. Environmental Monitoring Program

General Requirements:

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall retain records of all monitoring information including all calibration and maintenance records, copies of the reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample measurement, report, or application. This period may be extended by request of the Administrator at any time.
3. The permittee shall use electronic data deliverables (EDD) reporting when required by the Administrator.
4. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The initials or name(s) of the individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. The time(s) analyses were initiated;
 - e. The initials or name(s) of the individual(s) who performed the analyses;
 - f. References and written procedures for the analytical techniques or methods used;
 - g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.
5. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
6. The permittee shall retain all records concerning the nature and composition of injected fluids until five (5) years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
7. The permittee shall report any noncompliance which may endanger health or the environment within twenty-four (24) hours from the time the operator becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state;
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable ground waters of the state;

- c. A written submission shall be provided within five (5) days of the time the operator becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- 8. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted.
- 9. The monitoring reports shall be submitted on forms provided by the Department. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than forty-five (45) days following each schedule date.

I. Requirements for Monitoring the Discharge

The groundwater in the receiving formation shall be sampled and the following parameters analyzed according to the schedule identified in **Table 2**. The following parameters shall be analyzed semi-annually and reported annually:

Table 2 (Annual Groundwater Monitoring Schedule)

SAMPLING POINT	SAMPLING SCHEDULE	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT or UCL
Leach Field #1	Semi-Annually (January-June and July-December)	Total Volume Injected	Septic System Flow Meters	1,800 gallons per day
Leach Field #2	Semi-Annually (January-June and July-December)	Total Volume Injected	Septic System Flow Meters	2,790 gallons per day
Leach Field #3	Semi-Annually (January-June and July-December)	Total Volume Injected	Septic System Flow Meters	120 gallons per day
Septic Tanks	Annually	Sludge depth in tanks (ft)	Visual	1.5 feet ¹

NOTES:

¹ The septic tanks are to be inspected, at a minimum annually, and must be pumped as necessary based on sludge depth at the bottom of the septic tanks. Sludge depth is not to exceed 18 inches in the septic tank. A copy of the invoice for pumping the tank is to be included with the annual report.

All annual reports are to be reported within forty-five (45) days of the last day of each year (February 15th).

J. Test Procedures

All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. All samples taken shall include a trip blank of distilled water for each sampling date and a duplicate sample at least once per year. All required analyses shall be conducted in compliance with Wyoming Water Quality Rules and Regulations, Chapter 8, Section 7.

K. Records and Reports

The permittee shall furnish to the Administrator within a specified time any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit. The permittee shall retain copies of all records and reports required by this permit for a period of three (3) years following permanent well abandonment. After that time, those records shall be delivered to the Administrator for disposal or archive at his discretion. Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator within twenty-four (24) hours, and a written submission (via certified mail) shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written submission shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance. Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above. The permittee shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion, or abandonment of the well covered by this permit.

L. Permit Actions

This permit is authorized for a period of ten (10) years. If the permittee wishes to continue injection after the expiration date of this permit he shall apply to the Administrator and obtain a new permit. The application should be submitted at least 180 days before the expiration date of this permit. Under this permit, the Department may consider injection after the expiration date a violation of the permit.

It shall not be a defense for the permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

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

1. Violation of this permit; or
2. Obtaining a permit by misrepresentation of facts in the application.

This permit will be reviewed at least once every five (5) years, and may be reviewed more frequently. A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit was issued. A permit may be modified in whole or part in order to apply more or less stringent standards; or prohibitions for toxic or other substances present in the permittees discharge as may be ordered by the Environmental Quality Council.

M. Abandonment

General Requirements:

1. The permittee shall notify the administrator at least thirty (30) days prior to abandonment of the facility.
2. An abandonment report, detailing the compliance with abandonment procedures outlined in the original application for coverage under this permit, or describing any deviations from the original plan, shall be submitted as soon as practicable after abandonment. The abandonment shall include reclamation of the well site.
3. Injection wells covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 16, Section 12.

N. Duties of the Permittee

The permittee shall give advance notice to the Administrator as soon as possible of any planned physical alteration or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alternation or addition. The permittee shall furnish the Administrator within a reasonable time any information which the Administrator may request to determine whether cause exists for modifying, revoking, or reissuing, or terminating this permit, or to determine compliance with this permit; and to furnish to the Administrator upon request, copies of records required to be kept by this permit. Any modification which may result in a violation of a permit condition shall be reported to the Administrator, and any modification that will result in a violation of any permit conditions shall be reported to the Administrator through the submission of a new or amended permit application. The permittee shall report all instances where he becomes aware that he failed to submit any relevant facts in the permit application, or where he submitted incorrect information in a permit application or in any report to the Administrator, and shall promptly submit such facts or information.

If any cultural materials are discovered during construction, work in the area should halt immediately. The Administrator and the Wyoming State Historic Preservation Office shall be contacted (777-7697) and the materials shall be evaluated by an archaeologist or historian meeting the Secretary of the Interior's Professional Qualification Standards (48 FR 22716, Sept. 1983).

O. Signatories Requirement

All reports filed in conjunction with this permit shall contain the following certification:

"I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

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

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

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

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

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

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

P. Noncompliance

The permittee shall comply with all conditions of the permit. Any permit noncompliance constitutes a violation of Wyoming Water Quality Rules and Regulations, Chapter 16 and is grounds for enforcement action, permit termination, revocation, or modification. Conformed noncompliance resulting in an excursion shall be reported to the Administrator orally within twenty-four (24) hours, and a written submission shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written report shall contain the sections specified in Section K of this permit. Any permit noncompliance constitutes a violation of this permit.

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

Q. Permit Transfer

Any transfer of this permit shall be accomplished by the submission of the proper forms for permit transfer to the Administrator. Transfer of this permit must first be approved by the Administrator and the Director. No transfer shall be approved unless the proposed permittee agrees to bring any and all noncompliance issues into compliance with this permit. The permittee is alone responsible for the operation of the facility covered by this permit. Sale of the facility and subsequent operation of this facility by another is a violation of this permit unless a transfer of this permit has first been accomplished.

R. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege. This permit does not authorize injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

S. Severability

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

-End of Permit-



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

November 19, 2012

U.S. Dept. of the Interior
Attn: Ms. Nancy Ward, PE
National Park Service, P. O. Box 168
Yellowstone National Park, WY 82190

RE: Tower Junction Government Area, Class V Septic System
Final Permit **12-053**, Facility ID #WYS-029-086
Park County, Wyoming

Dear Ms. Ward:

Attached please find one copy of the Class V permit. This permit does not currently require environmental sampling during the reporting year. The requirements for monitoring and reporting are included in Section I of the permit.

The permit application, draft permit, final permit, and public notice, are available for review on the GEM website, <https://gem.wqd.apps.deq.wyoming.gov/default.aspx>.

The underground injection control program was promulgated to prevent serious problems caused by direct discharges to the groundwater. Those problems included groundwater pollution leading to contamination in domestic water wells and serious health affects caused by exposures to toxic substances and water borne pathogens. Your cooperation with our program is sincerely appreciated.

If you have any questions please do not hesitate to contact me at (307) 777-8275 or by email at nicole.twing@wyo.gov.

Sincerely,

Nicole Twing, P.G.
Wyoming Department of Environmental Quality
Project Geologist
Water Quality Division

NT/rm/12-1072

Enclosure: Final Permit

cc: John Passehl - WDEQ



STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND INJECTION CONTROL PERMIT ISSUED UNDER
WYOMING WATER QUALITY RULES AND REGULATIONS
CHAPTER 16

CLASS V INJECTION WELL

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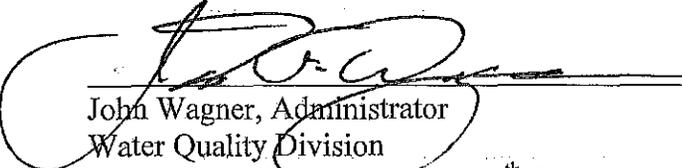
Permit Number: 12-053
Facility Number: WYS-029-086
State Subclass: 5E3
Previous Permit Number: 5E3-98-1

In compliance with the Wyoming Environmental Quality act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a)(iv), Laws 1973, Ch. 250, Section 1) and Wyoming Water Quality Rules and Regulations, Chapter 16.

Applicant: U.S. Dept. of the Interior (South Entrance Government and Residential Area)
National Park Service, P. O. Box 168
Yellowstone National Park, WY 82190

The National Park Service, hereinafter referred to as the permittee, is authorized to operate the septic systems located in the **Tower Junction Government Area**, SW1/4 of Section 16, Township 57 North, Range 112 West of the Sixth Principal Meridian, in Park County, Wyoming. The permittee is allowed to operate the facility according to the procedures, conditions, and requirements of this permit.

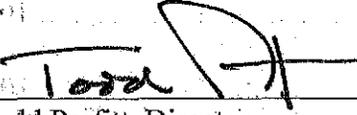
This permit shall become effective on date of issuance.



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

11/19/12

Date



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

11/19/12

Date

NT/rm/12-1072

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S. Severability.....10

A. Discharge Zone

These injection facilities (sanitary leachfields) are authorized to inject, at ambient air pressure, up to 17,202 gallons per day (gpd) average and 28,670 gpd maximum combined from three sanitary leachfields. Leachfield #1 (Roosevelt Lodge) is authorized to discharge up to 13,800 gallons per day average and 23,000 gallons per day maximum from a restaurant, employee and guest cabins, a laundry facility, and restrooms. Leachfield #2 (Service Station) is authorized to discharge up to 300 gallons per day average and 500 gallons per day maximum from restroom facilities. Leachfield #3 (Ranger Station) is authorized to discharge up to 2,922 gallons per day average and 4,870 gallons per day maximum from a ranger station and maintenance offices, three residences, a 4-plex, an RV site, three mobile home sites, a mess hall, and a laundry facility. The primary treated wastewater is discharged into three leachfields located north of all facility structures and completed within unconfined alluvial and glacial till deposits. The groundwater in the area is estimated to be 9 to 18 feet below ground surface at the injection locations based on borehole data.

B. Well and Area of Review

The injection systems authorized by this permit is located as follows:

These septic systems are located in the SW/4 of Section 16, Township 57 North, Range 112 West of the Sixth Principal Meridian, in Park County, Wyoming.

The Area of Review is defined as a circular area of 360 acres with the injection facility located near its center.

The Area of Review is based upon the following assumptions:

Table 1 (Area of Review Inputs)

Description	Inputs	Units
Permit Duration	10	Years
Porosity	20	Percent
Maximum Injection Rate	28,670	GPD
Thickness of Receiver	Variable, over 25 ft	Feet
Area of Review	725	Acres
Hydraulic Conductivity	5	Feet/Day

C. Groundwater Classification

The groundwater in the unnamed alluvial aquifer has not been classified according to Wyoming Water Quality Rules and Regulations, Chapter 8. Due to the remote and pristine nature of the facility location, there are no existing uses of groundwater within the area of review (AOR), and ambient groundwater quality cannot be determined. Based on modeling of nitrate loading using the Wehrmann Model (according to Wyoming Water Quality Rules and Regulations, Chapter 23), operation of the facility will not result in a violation of Class I, II, III or IV groundwater quality standards at any point of groundwater withdrawal outside of the AOR. In the event that groundwater use begins within the AOR, the permittee will be required to classify the groundwater by constructing at least one (1) down gradient monitoring well.

Groundwater of Class I shall not be degraded to make it unusable as a source of water for this purpose. An aquifer that contains less than 10,000 mg/L total dissolved solids (and is not exempted) can be considered an underground source of drinking water.

D. Authorized Operations

The operator is authorized to inject at a pressure of no more than atmospheric pressure as measured at the leachfields. These systems are controlled by gravity drainage and pressures are not required to be monitored. The wastewater is produced from the Roosevelt Lodge (restaurant, employee and guest cabins, restroom facilities, and a laundry facility), Tower Junction Service station (restrooms), and the Tower Junction Government Area Ranger Station (park ranger and maintenance offices, a 4-plex residence, three residences, three mobile homes, an RV site, a mess hall, and laundry buildings). The wastewater is injected into unconfined alluvial and glacial till deposits. The wastewater is described as primary treated domestic sewage.

E. Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined in 40 CFR 261.3 and in Wyoming Solid Waste Management Rules and Regulations, Chapter 2. Injection of any substance defined as a hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

F. Proper Operation and Maintenance

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. The permittee shall operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes: effective performance, adequate funding, operator staffing and training, and laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit. The injection and monitor wells covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapters 11, 16 and 25.

The permittee is required to operate in accordance with statements, representations and procedures presented in the complete permit application and supporting documents as accepted and approved by the Administrator. Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued. Injection into a well may not begin until construction is complete and the permit is approved.

G. Entry and Inspection

The permittee shall allow the Administrator (upon presentation of credentials and during normal working hours) to enter the premises where a regulated facility is located, or where records are kept under the conditions of this permit and inspect and photograph the discharge and related facilities, review and copy reports and records required by this permit, collect fluid samples for analysis, measure and record water levels, and perform any other function authorized by law or regulation.

H. Environmental Monitoring Program

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall retain records of all monitoring information including all calibration and maintenance records, copies of the reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample measurement, report, or application. This period may be extended by request of the Administrator at any time.
3. The permittee shall use electronic data deliverables (EDD) reporting when required by the Administrator.
4. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The initials or name(s) of the individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. The time(s) analyses were initiated;
 - e. The initials or name(s) of the individual(s) who performed the analyses;
 - f. References and written procedures for the analytical techniques or methods used;
 - g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.
5. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
6. The permittee shall retain all records concerning the nature and composition of injected fluids until five (5) years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
7. The permittee shall report any noncompliance which may endanger health or the environment within twenty-four (24) hours from the time the operator becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state;
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable ground waters of the state;
 - c. A written submission shall be provided within five (5) days of the time the operator becomes aware of the circumstances. This written submission shall contain a description

of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

8. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted.
9. The monitoring reports shall be submitted on forms provided by the Department. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than forty-five (45) days following each schedule date.

I. Requirements for Monitoring the Discharge

The groundwater in the receiving formation shall be sampled and the following parameters analyzed according to the schedule identified in **Table 2**. The following parameters shall be analyzed semi-annually and reported annually:

Table 2 (Annual Groundwater Monitoring Schedule)

SAMPLING POINT	SAMPLING SCHEDULE	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT or UCL
Leach Field #1	Semi-Annually (January-June and July-December)	Total Volume Injected	Septic System Flow Meters	23,000 gallons per day
Leach Field #2	Semi-Annually (January-June and July-December)	Total Volume Injected	Septic System Flow Meters	500 gallons per day
Leach Field #3	Semi-Annually (January-June and July-December)	Total Volume Injected	Septic System Flow Meters	4,870 gallons per day
Septic Tanks	Annually	Sludge depth in tanks (ft)	Visual	2 feet ¹

NOTES:

¹ The septic tanks are to be inspected, at a minimum annually, and must be pumped as necessary based on sludge depth at the bottom of the septic tanks. Sludge depth is not to exceed 24 inches in the septic tank. A copy of the invoice for pumping the tank is to be included with the annual report.

All annual reports are to be reported within forty-five (45) days of the last day of each year (February 15th).

J. Test Procedures

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

conducted in compliance with Wyoming Water Quality Rules and Regulations, Chapter 8, Section 7.

K. Records and Reports

The permittee shall furnish to the Administrator within a specified time any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit. The permittee shall retain copies of all records and reports required by this permit for a period of three (3) years following permanent well abandonment. After that time, those records shall be delivered to the Administrator for disposal or archive at his discretion. Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator within twenty-four (24) hours, and a written submission (via certified mail) shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written submission shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance. Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above. The permittee shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion, or abandonment of the well covered by this permit.

L. Permit Actions

This permit is authorized for a period of ten (10) years. If the permittee wishes to continue injection after the expiration date of this permit he shall apply to the Administrator and obtain a new permit. The application should be submitted at least 180 days before the expiration date of this permit. Under this permit, the Department may consider injection after the expiration date a violation of the permit.

It shall not be a defense for the permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

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

1. Violation of this permit; or
2. Obtaining a permit by misrepresentation of facts in the application.

This permit will be reviewed at least once every five (5) years, and may be reviewed more frequently. A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit was issued. A permit may be modified in whole or part in order to apply more or less stringent standards; or prohibitions

for toxic or other substances present in the permittees discharge as may be ordered by the Environmental Quality Council.

M. Abandonment

General Requirements:

1. The permittee shall notify the administrator at least thirty (30) days prior to abandonment of the facility.
2. An abandonment report, detailing the compliance with abandonment procedures outlined in the original application for coverage under this permit, or describing any deviations from the original plan, shall be submitted as soon as practicable after abandonment. The abandonment shall include reclamation of the well site.
3. Injection wells covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 16, Section 12.

N. Duties of the Permittee

The permittee shall give advance notice to the Administrator as soon as possible of any planned physical alteration or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alternation or addition. The permittee shall furnish the Administrator within a reasonable time any information which the Administrator may request to determine whether cause exists for modifying, revoking, or reissuing, or terminating this permit, or to determine compliance with this permit; and to furnish to the Administrator upon request, copies of records required to be kept by this permit. Any modification which may result in a violation of a permit condition shall be reported to the Administrator, and any modification that will result in a violation of any permit conditions shall be reported to the Administrator through the submission of a new or amended permit application. The permittee shall report all instances where he becomes aware that he failed to submit any relevant facts in the permit application, or where he submitted incorrect information in a permit application or in any report to the Administrator, and shall promptly submit such facts or information.

If any cultural materials are discovered during construction, work in the area should halt immediately. The Administrator and the Wyoming State Historic Preservation Office shall be contacted (777-7697) and the materials shall be evaluated by an archaeologist or historian meeting the Secretary of the Interior's Professional Qualification Standards (48 FR 22716, Sept. 1983).

O. Signatories Requirement

All reports filed in conjunction with this permit shall contain the following certification:

"I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the

information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

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

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

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

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

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

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

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

P. Noncompliance

The permittee shall comply with all conditions of the permit. Any permit noncompliance constitutes a violation of Wyoming Water Quality Rules and Regulations, Chapter 16 and is grounds for enforcement action, permit termination, revocation, or modification. Conformed noncompliance resulting in an excursion shall be reported to the Administrator orally within twenty-four (24) hours, and a written submission shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written report shall contain the sections specified in Section K of this permit. Any permit noncompliance constitutes a violation of this permit.

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

Q. Permit Transfer

Any transfer of this permit shall be accomplished by the submission of the proper forms for permit transfer to the Administrator. Transfer of this permit must first be approved by the Administrator and the Director. No transfer shall be approved unless the proposed permittee

agrees to bring any and all noncompliance issues into compliance with this permit. The permittee is alone responsible for the operation of the facility covered by this permit. Sale of the facility and subsequent operation of this facility by another is a violation of this permit unless a transfer of this permit has first been accomplished.

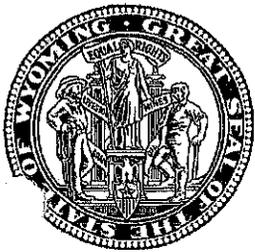
R. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege. This permit does not authorize injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

S. Severability

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

-End of Permit-



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

November 19, 2012

U.S. Dept. of the Interior
Attn: Ms. Nancy Ward, PE
National Park Service, P. O. Box 168
Yellowstone National Park, WY 82190

RE: Tower Falls Store Area, Class V Septic System
Final Permit 12-054, Facility ID #WYS-029-085
Park County, Wyoming

Dear Ms. Ward:

Attached please find one copy of the Class V permit. This permit does not currently require environmental sampling during the reporting year. The requirements for monitoring and reporting are included in Section I of the permit.

The permit application, draft permit, final permit, and public notice, are available for review on the GEM website, <https://gem.wqd.apps.deq.wyoming.gov/default.aspx>.

The underground injection control program was promulgated to prevent serious problems caused by direct discharges to the groundwater. Those problems included groundwater pollution leading to contamination in domestic water wells and serious health affects caused by exposures to toxic substances and water borne pathogens. Your cooperation with our program is sincerely appreciated.

If you have any questions please do not hesitate to contact me at (307) 777-8275 or by email at nicole.twing@wyo.gov.

Sincerely,

Nicole Twing, P.G.
Wyoming Department of Environmental Quality
Project Geologist
Water Quality Division

NT/rm/12-1073

Enclosure: Final Permit

cc: John Passehl - WDEQ

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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STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND INJECTION CONTROL PERMIT ISSUED UNDER
WYOMING WATER QUALITY RULES AND REGULATIONS
CHAPTER 16

CLASS V INJECTION WELL

() New
(X) Modified (Renewal)

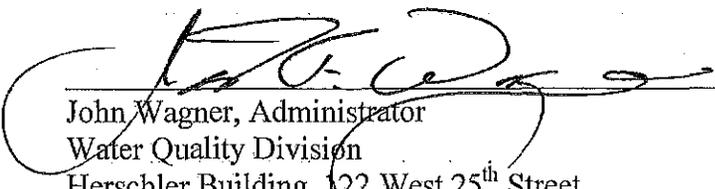
Permit Number: **12-054**
Facility Number: WYS-029-085
State Subclass: 5E3
Previous Permit Number: 5E3-98-1

In compliance with the Wyoming Environmental Quality act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a)(iv), Laws 1973, Ch. 250, Section 1) and Wyoming Water Quality Rules and Regulations, Chapter 16.

Applicant: U.S. Dept. of the Interior (Tower Fall Store Area)
National Park Service, P. O. Box 168
Yellowstone National Park, WY 82190

The National Park Service, hereinafter referred to as the permittee, is authorized to operate the septic system located at the **Tower Fall Store Area** in the SE 1/4 of Section 27, Township 57 North, Range 112 West of the Sixth Principal Meridian, in Park County, Wyoming. The permittee is allowed to operate the facility according to the procedures, conditions, and requirements of this permit.

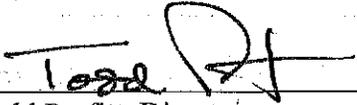
This permit shall become effective on date of issuance.



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

11/19/12

Date



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

11/19/12

Date

NT/rm/12-1073

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A. Discharge Zone

This injection facility (sanitary leachfield) is authorized to inject, at ambient air pressure, up to 5,988 gallons per day average and 9,880 gallons per day maximum from one sanitary leachfield. The primary treated wastewater is injected into the alluvial aquifer described as poorly sorted glacial till and alluvium. Depth to groundwater in the vicinity of the leachfield is greater than 30 feet, based on information from local borings and excavations.

B. Well and Area of Review

The injection system authorized by this permit is located as follows:

This septic system is located in SE/4 of Section 27, Township 57 North, Range 112 West of the Sixth Principal Meridian, in Park County, Wyoming.

The Area of Review is defined as a circular area of 360 acres with the injection facility located near its center.

The Area of Review is based upon the following assumptions:

Table 1 (Area of Review Inputs)

Description	Inputs	Units
Permit Duration	10	Years
Porosity	20	Percent
Maximum Injection Rate	9,980	GPD
Thickness of Receiver	Variable, 2 to 60	Feet
Area of Review	360	Acres
Hydraulic Conductivity	5	Feet/Day

C. Groundwater Classification

The groundwater in the unnamed alluvial aquifer has not been classified according to Wyoming Water Quality Rules and Regulations, Chapter 8. Due to the remote and pristine nature of the facility location, there are no existing uses of groundwater within the area of review (AOR), and ambient groundwater quality cannot be determined. Based on modeling of nitrate loading using the Wehrmann Model (according to Wyoming Water Quality Rules and Regulations, Chapter 23), operation of the facility will not result in a violation of Class I, II, III or IV groundwater quality standards at any point of groundwater withdrawal outside of the AOR. In the event that groundwater use begins within the AOR, the permittee will be required to classify the groundwater by constructing at least one (1) down gradient monitoring well.

Groundwater of Class I shall not be degraded to make it unusable as a source of water for this purpose. An aquifer that contains less than 10,000 mg/L total dissolved solids (and is not exempted) can be considered an underground source of drinking water.

D. Authorized Operations

The operator is authorized to inject at a pressure of no more than atmospheric pressure as measured at the leachfield. This system is controlled by gravity drainage and pressures are not

required to be monitored. The wastewater is produced from seasonal operations of a the restaurant/store, Park employee's dormitories, 5 campground spaces with hookups, and Park office/maintenance buildings. The wastewater is injected into unconfined alluvial and glacial deposits. The wastewater is described as primary treated domestic sewage.

E. Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined in 40 CFR 261.3 and in Wyoming Solid Waste Management Rules and Regulations, Chapter 2. Injection of any substance defined as a hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

F. Proper Operation and Maintenance

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. The permittee shall operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes: effective performance, adequate funding, operator staffing and training, and laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit. The injection and monitor wells covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapters 11, 16 and 25.

The permittee is required to operate in accordance with statements, representations and procedures presented in the complete permit application and supporting documents as accepted and approved by the Administrator. Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued. Injection into a well may not begin until construction is complete and the permit is approved.

G. Entry and Inspection

The permittee shall allow the Administrator (upon presentation of credentials and during normal working hours) to enter the premises where a regulated facility is located, or where records are kept under the conditions of this permit and inspect and photograph the discharge and related facilities, review and copy reports and records required by this permit, collect fluid samples for analysis, measure and record water levels, and perform any other function authorized by law or regulation.

H. Environmental Monitoring Program

General Requirements:

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall retain records of all monitoring information including all calibration and maintenance records, copies of the reports required by this permit, and records of all data

used to complete the application for this permit, for a period of at least three (3) years from the date of the sample measurement, report, or application. This period may be extended by request of the Administrator at any time.

3. The permittee shall use electronic data deliverable (EDD) reporting when required by the Administrator.
4. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The initials or name(s) of the individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. The time(s) analyses were initiated;
 - e. The initials or name(s) of the individual(s) who performed the analyses;
 - f. References and written procedures for the analytical techniques or methods used;
 - g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.
5. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
6. The permittee shall retain all records concerning the nature and composition of injected fluids until five (5) years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
7. The permittee shall report any noncompliance which may endanger health or the environment within twenty-four (24) hours from the time the operator becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state;
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable ground waters of the state;
 - c. A written submission shall be provided within five (5) days of the time the operator becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
8. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted.

9. The monitoring reports shall be submitted on forms provided by the Department. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than forty-five (45) days following each schedule date.

I. Requirements for Monitoring the Discharge

The groundwater in the receiving formation shall be sampled and the following parameters analyzed according to the schedule identified in **Table 2**. The following parameters shall be analyzed semi-annually and reported annually:

Table 2 (Annual Groundwater Monitoring Schedule)

WELL NAME OR NUMBER	SAMPLING SCHEDULE	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMITTED LIMIT OR UCL
Leach Field	Semi-Annually (January-June and July-December)	Total Volume Injected	Septic System Flow Meters	9,980 gallons per day
Septic Tanks	Annually	Sludge depth in tank (ft)	Visual	2 feet ¹

NOTES:

¹ The septic tanks are to be inspected, at a minimum annually, and must be pumped as necessary based on sludge depth at the bottom of the septic tanks. Sludge depth is not to exceed 18 inches in the septic tank. A copy of the invoice for pumping the tank is to be included with the annual report.

All annual reports are to be reported within forty-five (45) days of the last day of each year (February 15th).

J. Test Procedures

All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. All samples taken shall include a trip blank of distilled water for each sampling date and a duplicate sample at least once per year. All required analyses shall be conducted in compliance with Wyoming Water Quality Rules and Regulations, Chapter 8, Section 7.

K. Records and Reports

The permittee shall furnish to the Administrator within a specified time any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit. The permittee shall retain copies of all records and reports required by this permit for a period of three (3) years following permanent well abandonment. After that time, those records shall be delivered to the Administrator for disposal or archive at his discretion. Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator within twenty-four (24) hours, and a written submission (via certified mail) shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written submission

shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance. Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above. The permittee shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion, or abandonment of the well covered by this permit.

L. Permit Actions

This permit is authorized for a period of ten (10) years. If the permittee wishes to continue injection after the expiration date of this permit he shall apply to the Administrator and obtain a new permit. The application should be submitted at least 180 days before the expiration date of this permit. Under this permit, the Department may consider injection after the expiration date a violation of the permit.

It shall not be a defense for the permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

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

1. Violation of this permit; or
2. Obtaining a permit by misrepresentation of facts in the application.

This permit will be reviewed at least once every five (5) years, and may be reviewed more frequently. A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit was issued. A permit may be modified in whole or part in order to apply more or less stringent standards; or prohibitions for toxic or other substances present in the permittees discharge as may be ordered by the Environmental Quality Council.

M. Abandonment

General Requirements:

1. The permittee shall notify the administrator at least thirty (30) days prior to abandonment of the facility.
2. An abandonment report, detailing the compliance with abandonment procedures outlined in the original application for coverage under this permit, or describing any deviations from the original plan, shall be submitted as soon as practicable after abandonment. The abandonment shall include reclamation of the well site.

3. Injection wells covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 16, Section 12.

N. Duties of the Permittee

The permittee shall give advance notice to the Administrator as soon as possible of any planned physical alteration or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alternation or addition. The permittee shall furnish the Administrator within a reasonable time any information which the Administrator may request to determine whether cause exists for modifying, revoking, or reissuing, or terminating this permit, or to determine compliance with this permit; and to furnish to the Administrator upon request, copies of records required to be kept by this permit. Any modification which may result in a violation of a permit condition shall be reported to the Administrator, and any modification that will result in a violation of any permit conditions shall be reported to the Administrator through the submission of a new or amended permit application. The permittee shall report all instances where he becomes aware that he failed to submit any relevant facts in the permit application, or where he submitted incorrect information in a permit application or in any report to the Administrator, and shall promptly submit such facts or information.

If any cultural materials are discovered during construction, work in the area should halt immediately. The Administrator and the Wyoming State Historic Preservation Office shall be contacted (777-7697) and the materials shall be evaluated by an archaeologist or historian meeting the Secretary of the Interior's Professional Qualification Standards (48 FR 22716, Sept. 1983).

O. Signatories Requirement

All reports filed in conjunction with this permit shall contain the following certification:

"I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

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

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

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

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

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

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

P. Noncompliance

The permittee shall comply with all conditions of the permit. Any permit noncompliance constitutes a violation of Wyoming Water Quality Rules and Regulations, Chapter 16 and is grounds for enforcement action, permit termination, revocation, or modification. Conformed noncompliance resulting in an excursion shall be reported to the Administrator orally within twenty-four (24) hours, and a written submission shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written report shall contain the sections specified in Section K of this permit. Any permit noncompliance constitutes a violation of this permit.

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

Q. Permit Transfer

Any transfer of this permit shall be accomplished by the submission of the proper forms for permit transfer to the Administrator. Transfer of this permit must first be approved by the Administrator and the Director. No transfer shall be approved unless the proposed permittee agrees to bring any and all noncompliance issues into compliance with this permit. The permittee is alone responsible for the operation of the facility covered by this permit. Sale of the facility and subsequent operation of this facility by another is a violation of this permit unless a transfer of this permit has first been accomplished.

R. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege. This permit does not authorize injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

S. Severability

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

-End of Permit-



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

John Corra, Director

October 11, 2012

U.S. Dept. of the Interior
Attn: Ms. Nancy Ward, PE
National Park Service, P. O. Box 168
Yellowstone National Park, WY 82190

RE: Norris Junction Public Campground, Class V Septic System
Final Permit **12-055**, Facility ID #WYS-029-075
Park County, Wyoming

Dear Ms. Ward:

Attached please find one copy of the Class V permit. This permit does not currently require environmental sampling during the reporting year. The requirements for monitoring and reporting are included in Section I of the permit.

The permit application, draft permit, final permit, and public notice, are available for review on the GEM website, <https://gem.wqd.apps.deq.wyoming.gov/default.aspx>.

The underground injection control program was promulgated to prevent serious problems caused by direct discharges to the groundwater. Those problems included groundwater pollution leading to contamination in domestic water wells and serious health affects caused by exposures to toxic substances and water borne pathogens. Your cooperation with our program is sincerely appreciated.

If you have any questions please do not hesitate to contact me at (307) 777-8275 or by email at nicole.twing@wyo.gov.

Sincerely,

Nicole Twing, P.G.
Wyoming Department of Environmental Quality
Project Geologist
Water Quality Division

NT/rm/12-0938

Enclosure: Final Permit

cc: John Passehl - WDEQ



STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND INJECTION CONTROL PERMIT ISSUED UNDER
WYOMING WATER QUALITY RULES AND REGULATIONS
CHAPTER 16

CLASS V INJECTION WELL

() New
(X) Modified (Renewal)

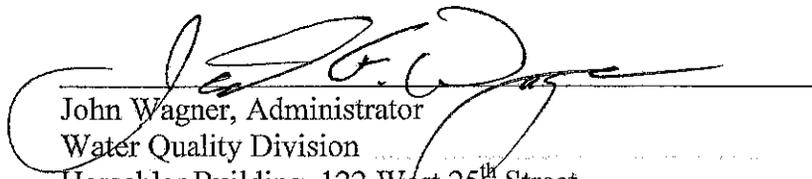
Permit Number: 12-055
Facility Number: WYS-029-075
State Subclass: 5E3
Previous Permit Number: 5E3-98-1

In compliance with the Wyoming Environmental Quality act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a)(iv), Laws 1973, Ch. 250, Section 1) and Wyoming Water Quality Rules and Regulations, Chapter 16.

Applicant: U.S. Dept. of the Interior (Norris Junction Public Campground)
National Park Service, P. O. Box 168
Yellowstone National Park, WY 82190

The National Park Service, hereinafter referred to as the permittee, is authorized to operate the septic systems located at the **Norris Junction Public Campground** in the NW1/4 of the NW1/4 of the NE1/4 of Section 23, Township 55 North, Range 115 West of the Sixth Principal Meridian, in Park County, Wyoming. The permittee is allowed to operate the facility according to the procedures, conditions, and requirements of this permit.

This permit shall become effective on date of issuance.



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

10/12/12
Date



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

10/16/12
Date

NT/rm/12-0938

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A. Discharge Zone

This injection facility (sanitary leachfield) is authorized to inject, at ambient air pressure, up to 5,256 gallons per day average and a maximum of 8,760 gallons per day combined total from two sanitary leachfields. Leachfield #1 (Loops B and C) is authorized for up to 3,825 gallons per day average and 6,375 gallons per day maximum from 85 campground spaces without hookups. Leachfield #2 (Loop A) is authorized for up to 1,431 gallons per day average and 2,385 gallons per day maximum from 31 campground spaces without hook ups, and a 2 employee ranger station. The primary treated wastewater is discharged into leachfields located south and east of Loop B and completed within unconfined alluvial fan deposits. The groundwater in the immediate area is estimated to be greater than 5 feet below the septic system leach field at the injection location based on topography and surface elevations.

B. Well and Area of Review

The injection system authorized by this permit is located as follows:

NW1/4 of the NW1/4 of the NE1/4 of Section 23, Township 55 North, Range 115 West of the Sixth Principal Meridian, in Park County, Wyoming.

The Area of Review is defined as a circular area of 360 acres with the injection facility located near its center.

The Area of Review is based upon the following assumptions:

Table 1 (Area of Review Inputs)

Description	Inputs	Units
Permit Duration	10	Years
Porosity	20	Percent
Maximum Injection Rate	8,760	GPD
Thickness of Receiver	5	Feet
Area of Review	360	Acres
Hydraulic Conductivity	5	Feet/Day

C. Groundwater Classification

Due to the remote and pristine nature of the facility location, there are no existing uses of groundwater within the area of review (AOR), and ambient groundwater quality cannot be determined. Based on modeling of nitrate loading using the Wehrmann Model (according to Wyoming Water Quality Rules and Regulations, Chapter 23), operation of the facility will not result in a violation of Class I, II, III or IV groundwater quality standards at any point of groundwater withdrawal outside of the AOR. In the event that groundwater use begins within the AOR, the permittee will be required to classify the groundwater by constructing at least one (1) down gradient monitoring well.

Groundwater of Class I shall not be degraded to make it unusable as a source of water for this purpose. An aquifer that contains less than 10,000 mg/L total dissolved solids (and is not exempted) can be considered an underground source of drinking water.

D. Authorized Operations

The operator is authorized to inject at a pressure of no more than atmospheric pressure as measured at the leachfields. These systems are controlled by gravity drainage and pressures are not required to be monitored. The wastewater is produced from 116 campground spaces without service hookups, and a 2 employee ranger station. The wastewater is injected into an unconfined alluvial fan deposit. The wastewater is described as primary treated domestic sewage.

E. Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined in 40 CFR 261.3 and in Wyoming Solid Waste Management Rules and Regulations, Chapter 2. Injection of any substance defined as a hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

F. Proper Operation and Maintenance

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. The permittee shall operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes: effective performance, adequate funding, operator staffing and training, and laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit. The injection and monitor wells covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapters 11, 16 and 25.

The permittee is required to operate in accordance with statements, representations and procedures presented in the complete permit application and supporting documents as accepted and approved by the Administrator. Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued. Injection into a well may not begin until construction is complete and the permit is approved.

G. Entry and Inspection

The permittee shall allow the Administrator (upon presentation of credentials and during normal working hours) to enter the premises where a regulated facility is located, or where records are kept under the conditions of this permit and inspect and photograph the discharge and related facilities, review and copy reports and records required by this permit, collect fluid samples for analysis, measure and record water levels, and perform any other function authorized by law or regulation.

H. Environmental Monitoring Program

General Requirements:

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. The permittee shall retain records of all monitoring information including all calibration and maintenance records, copies of the reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample measurement, report, or application. This period may be extended by request of the Administrator at any time.
3. The permittee shall use electronic data deliverable (EDD) reporting when required by the Administrator.
4. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The initials or name(s) of the individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. The time(s) analyses were initiated;
 - e. The initials or name(s) of the individual(s) who performed the analyses;
 - f. References and written procedures for the analytical techniques or methods used;
 - g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.
5. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
6. The permittee shall retain all records concerning the nature and composition of injected fluids until five (5) years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
7. The permittee shall report any noncompliance which may endanger health or the environment within twenty-four (24) hours from the time the operator becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state;
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable ground waters of the state;
 - c. A written submission shall be provided within five (5) days of the time the operator becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

8. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted.
9. The monitoring reports shall be submitted on forms provided by the Department. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than forty-five (45) days following each schedule date.

I. Requirements for Monitoring the Discharge

The following parameters shall be collected and reported annually according to the schedule identified in **Table 2** :

Table 2 (Annual Groundwater Monitoring Schedule)

SAMPLING POINT	SAMPLING SCHEDULE	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT or UCL
Leach Field #1	Semi-Annually (January-June and July-December)	Total Volume Injected	Septic System Flow Meters	6,375 gallons per day
Leach Field #2	Semi-Annually (January-June and July-December)	Total Volume Injected	Septic System Flow Meters	2,385 gallons per day
Septic Tanks	Annually	Sludge depth in tanks (ft)	Visual	1.5 feet ¹

NOTES:

¹The septic tanks are to be inspected, at a minimum annually, and must be pumped as necessary based on sludge depth at the bottom of the septic tanks. Sludge depth is not to exceed 18 inches in the septic tank. A copy of the invoice for pumping the tank is to be included with the annual report.

All annual reports are to be reported within forty-five (45) days of the last day of each year (February 15th).

J. Test Procedures

All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. All samples taken shall include a duplicate sample at least once per year. All required analyses shall be conducted in compliance with Wyoming Water Quality Rules and Regulations, Chapter 8, Section 7.

K. Records and Reports

The permittee shall furnish to the Administrator within a specified time any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit. The permittee shall retain copies of all records and reports required by this permit for a period of three (3) years following permanent well abandonment. After that time, those records shall be delivered to the Administrator for disposal

or archive at his discretion. Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator within twenty-four (24) hours, and a written submission (via certified mail) shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written submission shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance. Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above. The permittee shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion, or abandonment of the well covered by this permit.

L. Permit Actions

This permit is authorized for a period of ten (10) years. If the permittee wishes to continue injection after the expiration date of this permit he shall apply to the Administrator and obtain a new permit. The application should be submitted at least 180 days before the expiration date of this permit. Under this permit, the Department may consider injection after the expiration date a violation of the permit.

It shall not be a defense for the permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

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

1. Violation of this permit; or
2. Obtaining a permit by misrepresentation of facts in the application.

This permit will be reviewed at least once every five (5) years, and may be reviewed more frequently. A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit was issued. A permit may be modified in whole or part in order to apply more or less stringent standards; or prohibitions for toxic or other substances present in the permittees discharge as may be ordered by the Environmental Quality Council.

M. Abandonment

General Requirements:

1. The permittee shall notify the administrator at least thirty (30) days prior to abandonment of the facility.

2. An abandonment report, detailing the compliance with abandonment procedures outlined in the original application for coverage under this permit, or describing any deviations from the original plan, shall be submitted as soon as practicable after abandonment. The abandonment shall include reclamation of the well site.
3. Injection wells covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 16, Section 12.

N. Duties of the Permittee

The permittee shall give advance notice to the Administrator as soon as possible of any planned physical alteration or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alteration or addition. The permittee shall furnish the Administrator within a reasonable time any information which the Administrator may request to determine whether cause exists for modifying, revoking, or reissuing, or terminating this permit, or to determine compliance with this permit; and to furnish to the Administrator upon request, copies of records required to be kept by this permit. Any modification which may result in a violation of a permit condition shall be reported to the Administrator, and any modification that will result in a violation of any permit conditions shall be reported to the Administrator through the submission of a new or amended permit application. The permittee shall report all instances where he becomes aware that he failed to submit any relevant facts in the permit application, or where he submitted incorrect information in a permit application or in any report to the Administrator, and shall promptly submit such facts or information.

If any cultural materials are discovered during construction, work in the area should halt immediately. The Administrator and the Wyoming State Historic Preservation Office shall be contacted (777-7697) and the materials shall be evaluated by an archaeologist or historian meeting the Secretary of the Interior's Professional Qualification Standards (48 FR 22716, Sept. 1983).

O. Signatories Requirement

All reports filed in conjunction with this permit shall contain the following certification:

"I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

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

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

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

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

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

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

P. Noncompliance

The permittee shall comply with all conditions of the permit. Any permit noncompliance constitutes a violation of Wyoming Water Quality Rules and Regulations, Chapter 16 and is grounds for enforcement action, permit termination, revocation, or modification. Conformed noncompliance resulting in an excursion shall be reported to the Administrator orally within twenty-four (24) hours, and a written submission shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written report shall contain the sections specified in Section K of this permit. Any permit noncompliance constitutes a violation of this permit.

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

Q. Permit Transfer

Any transfer of this permit shall be accomplished by the submission of the proper forms for permit transfer to the Administrator. Transfer of this permit must first be approved by the Administrator and the Director. No transfer shall be approved unless the proposed permittee agrees to bring any and all noncompliance issues into compliance with this permit. The permittee is alone responsible for the operation of the facility covered by this permit. Sale of the facility and subsequent operation of this facility by another is a violation of this permit unless a transfer of this permit has first been accomplished.

R. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege. This permit does not authorize injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

S. Severability

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

-End of Permit-



Department of Environmental Quality

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Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

March 5, 2012

Mark Hoover
HC 33, Box 2
Rawlins, Wyoming 82301

RE: Willow Hill Residential Septic System,
Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$ & NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 16, T23N, R88W,

Application No. **12-056**
Carbon County

Dear Mr. Hoover:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1250 gallon, two compartment, concrete septic tank discharging into about 180 feet of chamber type trench leachfield divided into two equal length trenches consisting of 22 "Infiltrator" brand, Quick4 model chamber units each for a **5 bedroom house** in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11 Part D of the Water Quality Division Rules and Regulations, the general permit, the condition listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific condition also applies:

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.

The approval granted under this Notification Of Coverage and the General Permit shall expire on March 5, 2014. Please reference Application Number 12-056 in any future correspondence.

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

Sincerely,

Ronald L. Ewald
Assistant Southeast District Engineer
Southeast District, Water & Wastewater Section
Water Quality Division

RLE/rm/12-0153

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Kristy Rowan, Carbon County Planning Office, Carbon Building, 215 West
Buffalo Street, Suite 336, Rawlins, Wyoming 82301





Department of Environmental Quality

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Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

March 21, 2012

Marjorie Stumbough
1946 Fletcher Park Road
Wheatland, WY 82201

RE: Stumbough Farm Residential Septic System,
Application No. **12-057, Platte County**

Dear Ms. Stumbough:

The above application for coverage under **General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility** consisting of a 1000 gallon, two compartment, concrete septic tank discharging into about 150 feet of rock and perforated pipe trench leachfield divided into two equal length trenches of about 75 feet each, for a 2 bedroom home, located in the E $\frac{1}{2}$ SE $\frac{1}{4}$, **Section 31, T25N, 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 small wastewater system in accordance with **Chapter 11, PART D** 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 D of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **March 21, 2014**.

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. **12-057** in any future correspondence.

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

Sincerely,

Ronald L. Ewald
Assistant Southeast District Engineer
Southeast District, Water & Wastewater Section
Water Quality Division

RLE/rm/12-0226

Enclosures: Certificate of Completion

cc: IPS, Cheyenne
Platte County Planning Office, Reed Elmquist, P.O. Box 728, Wheatland, WY 82201





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

John Corra, Director

NOTIFICATION OF COVERAGE

April 13, 2012

Troy Massie
OALC Board of Trustees
P.O. Box 965
Moorcroft, WY 82721

RE: Old Apostolic Lutheran Church Waterline Project
Application No. **12-058, Crook County**

Dear Mr. Massie:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Water Supply Distribution Systems, consisting of approximately 1,700 feet of eight inch PVC waterline and one hydrant located in the SW ¼, **Section 31, Township 50N, Range 67W**, 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 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, 2013**.

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

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

cc: IPS, Cheyenne
WDEQ Casper File
Bill Carson, P.E., Moorcroft Town Engineer, P.O. Box 457, 601 Metz Drive, Gillette, WY 82717
Jeffrey Rosenlund, P.E., 212 Meade Creek Road, Sheridan, WY 82801





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

John Corra, Director

March 19, 2012

Jeffrey Rosenlund, P.E.
212 Meade Creek Road
Sheridan, WY 82801

RE: Old Apostolic Lutheran Church Waterline Project
Location: SW ¼, Section 31, T. 50 N, R. 67 W, Moorcroft, WY
WDEQ Application #12-058

Dear Mr. Rosenlund:

We have completed our review of the permit application submitted on February 22, 2012. 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) 473-3469 or Karen L. Farley at (307) 473-3478 should you have any questions related to these comments or the application and review process.

Sincerely,

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

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

Attachments: WDEQ Comments

cc: Troy Massie, OALC, P.O. Box 965, Moorcroft, WY 82721
Bill A. Carson, P.E., Moorcroft Town Engineer, P.O. Box 70, Moorcroft, WY 82721
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: Old Apostolic Lutheran Church Waterline Project

LOCATION: Moorcroft, Wyoming

ENGINEER: Jeffrey Rosenlund, P.E.

APPLICANT: Troy Massie, Old Apostolic Lutheran Church

WATER QUALITY DIVISION APPLICATION NUMBER: 12-058

DATE ON PROPOSAL/PLANS/REPORT: February 10, 2012

DATE RECEIVED BY DEQ: February 22, 2012

DATE OF THIS REVIEW: March 19, 2012

WDEQ REVIEWER: Jason Vreeland, P.E., 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 6(b)(i) and 7(b) – Please provide a scaled vicinity plan map of the area that shows “...adjacent and proposed development, elevations, and topographic features.” In addition, a legend and a site plan of the proposed project with topography and boundaries of the project is required.
- 2) Chapter 12, Section 7(a) – Please provide information on the property owners and easements for the project. It appears that multiple owners may be involved. Also, please explain who will be responsible for maintaining the line.

- 3) Chapter 12, Section 7(c) – Please include the corresponding stationing in the plan view.
- 4) Chapter 12, Section 14(a) – Please provide geotechnical information for this project, such as soils, groundwater, possible contamination, etc., and any issues that may be encountered during the installation of PVC water line.
- 5) Chapter 12, Section 14(g)(i) – Sheet 1 shows a 30” CMP in close proximity to the proposed water line. Please address.
- 6) Chapter 12, Section 14(i) – Please provide information on the sprinkler system and any required backflow prevention device. In addition, please provide further information on how the fire hydrant, service line, and sprinkler line will all be isolated from each other.
- 7) Chapter 12, Section 14(b)(iii) – The design report states that “The fire flow demand required under the IFC is 1500 gpm at the fire hydrant, since the building will have a fire protection sprinkler system. Separately (and not at the same time as the fire hydrant demand), the fire sprinkler system requires 500 gpm at a minimum of 50 psi.” Please explain why the fire sprinkler system and the fire hydrant will not be operating at the same time or model these two demands concurrently.
- 8) Chapter 12, Section 14 (b)(i) – Table 1 of the design report shows pressures for various nodes. Please provide a corresponding map that shows where these nodes are.
- 9) Chapter 12, Section 14(b)(iii) – Table 2 of the design report lists the available fire flow at the OALC hydrant. Please include at what residual pressure this flow is available.
- 10) Chapter 12, Section 14(b)(iii) – Please provide any information used to calibrate the water model to the existing system, such as water tank levels, hydrant flow tests, etc.
- 11) Sheet 2 – Please clarify the fittings at Station 7+19.42. The plan view indicates a cross, but the profile indicates a tee.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 12-059

City of Sheridan: Water Treatment Plants Improvements, Sheridan WTP and Big Goose WTP
PWS# WY5600052

This permit hereby authorizes the applicant:

City of Sheridan
55 Grinnell Plaza
Sheridan, Wyoming 82801

to construct, install or modify water treatment plant (WTP) improvements at the Sheridan WTP and at the Big Goose WTP; including construction of a new rapid mix facility, replacement of flocculation basin baffles, installation of plate settlers, new sodium hypochlorite feed equipment, filter media replacement, and other miscellaneous upgrades at the Big Goose WTP; and including construction of a new rapid mix facility, replacement of flocculation basin baffles, installation of plate settlers, filter improvements including media replacement and backwash air scour equipment, electrical improvements, and other miscellaneous upgrades at the Sheridan WTP, according to the procedures and conditions of the application number 12-059. The Big Goose Water Treatment Plant is located approximately 11 miles southwest of City of Sheridan, in SW1/4 SE1/4 of Section 25, Township 55 North, Range 86 West, in the County of Sheridan, in the State of Wyoming. The Sheridan Water Treatment Plant is located approximately 1 mile west of City of Sheridan, in SW1/4 NW1/4 of Section 29, Township 56 North, Range 84 West, in the County of Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by June 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.

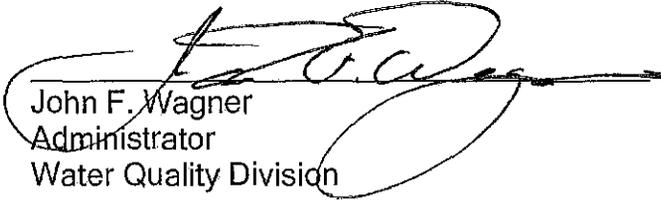
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

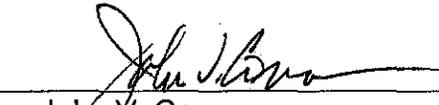
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization 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 3 The applicant will provide immediate oral or written notice to the DEQ/WQD Northeast District Office in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations (WWQRR) 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 DEQ/WQD Northeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

10-6-12
Date of Issuance

KJF/rm/12-0506

STATEMENT OF BASIS

1. Permit Number: 12-059
2. Application reviewed for compliance with the following applicable regulations:
 - a. Chapters 3 and 12.
3. Does the permit comply with all applicable regulations identified above?
No
4. Facilities not specifically covered by regulations
 - a. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
Chapter 12 Section 10(c)(ii) requires that detention time in a flash mixing chamber not exceed 30 seconds at maximum daily flow conditions.
 - b. Briefly state the basis for the deviation.
The engineering firm provided information on successful designs by them at other facilities using a 60 second rapid mix detention time at maximum flow conditions.
5. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
not required
6. Documentation of Statement of Basis.

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 3, Wyoming Water Quality Rules and Regulations. This review was performed by Kevin Frank, SRF Project Engineer, and completed on May 23, 2012. 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
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 12-064
REFERENCE PERMIT NO. 08-798

Homestead Draw III

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of eight (8) compliance monitoring wells according to the procedures and conditions of Permit to Construct number 12-064. The wells are proximal to coalbed methane produced water impoundments located in Township 56N, Range 74W, Section 23 and in Township 56N, Range 7W Section 31 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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

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

1 of 5 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 5 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 5 Monitoring Requirements:

Impoundments Brug 5-31 and Brug Ranch #1

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level in all monitoring wells: Brug 5-31 MW-01, Brug 5-31 MW-02, Brug 5-31 MW-03 and Brug Ranch #1 MW-01;
- Sampling and analysis of groundwater from down-gradient wells: Brug 5-31 MW-01 and Brug Ranch #1 MW-01;
- The parameters listed in the table below are required for groundwater compliance monitoring beneath the listed impoundments:

Brug 5-31

Parameter	Brug 5-31 MW-01 Background Value (mg/L) (7/22/2008)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1010	3000
TDS	2070	5000
pH	7.66	6.5 – 8.5 (s.u)

Brug Ranch #1

Parameter	Brug Ranch #1 MW-01 Background Value (mg/L) (9/16/2008)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	2100	3000
TDS	3530	5000
pH	6.67	6.5 – 8.5 (s.u)

- Reporting results of quarterly sampling and analysis are due to the department by January 15th, April 15th, July 15th, and October 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately three months apart;
- If the initial discharge into the impoundments has not occurred by the quarterly report date, a groundwater compliance sample is not required for that quarterly period. The operator shall notify the DEQ that discharge has not occurred.

Impoundment Brug 23-2

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on a semi-annual basis until further notice and shall include the following information:

- Measurement of static water level in monitoring well: Brug 23-2 MW-01;
- Sampling and analysis of groundwater from down-gradient well: Brug 23-2 MW-01;
- The parameters listed in the table below are required for groundwater compliance monitoring beneath the listed impoundment:

Brug 23-2		
Parameter	Brug 23-2 MW-01 Background Value (mg/L) (7/23/2008)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	320	3000
TDS	824	5000
pH	7.16	6.5 – 8.5 (s.u)

- Reporting results of semi-annual sampling and analysis are due to the department by January 15th and July 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately six months apart.

Impoundment Brug 3-31

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on an annual basis until further notice and shall include the following information:

- Measurement of static water level in all monitoring wells: Brug 3-31 MW-01, Brug 3-31 MW-02 and Brug 3-31 MW-03;
- Sampling and analysis of groundwater from down-gradient well: Brug 3-31 MW-01;
- The parameters listed in the table below are required for groundwater compliance monitoring beneath the listed impoundment:

Brug 3-31

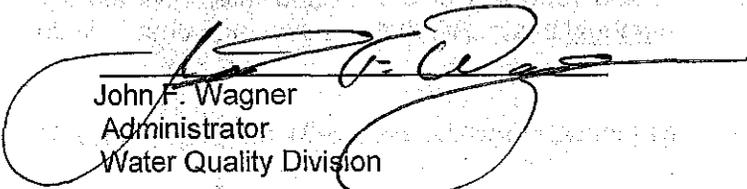
Parameter	Brug 3-31 MW-01 Background Value (mg/L) (7/23/2008)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1	3000
TDS	959	5000
pH	7.65	6.5 – 8.5 (s.u)

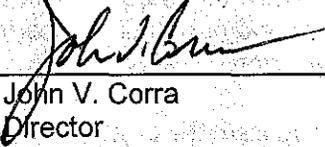
- Reporting results of annual sampling and analysis are due to the department by January 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately twelve months apart.

All Impoundments

- If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
 - The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deq-cbmgroundwater@wyo.gov;
 - The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above.
- 4 of 5 The WDEQ may require a more frequent sampling schedule based on results of groundwater monitoring data analyses.
- 5 of 5 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

4-18-12
Date of Issuance

CS/rm/12-0328



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 12-060

REFERENCE PERMIT NOS. 10-014 and 06-817

ANTELOPE POD: P58-79-2011

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of three (3) compliance monitoring wells according to the procedures and conditions of Permit to Construct number 12-060. The wells are proximal to a coalbed methane produced water impoundment located in Township 58N, Range 79W, Section 20 in the county of Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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

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

1 of 4 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, 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 4 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 4 **Monitoring Requirements:**
Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on a quarterly basis until further notice and shall include the following information:

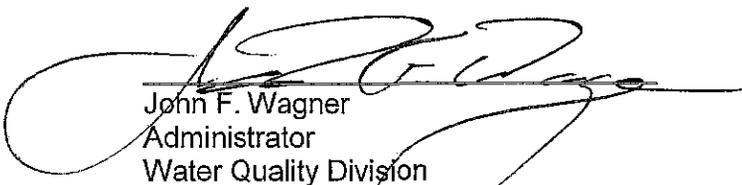
- Measurement of static water level in all monitoring wells: MW58-79-2011, MW58-79-2011A and MW58-79-2011B;
- Sampling and analysis of groundwater at down-gradient well: MW58-79-2011A;
- The parameters listed in the table below are required for groundwater compliance monitoring beneath the listed impoundment:

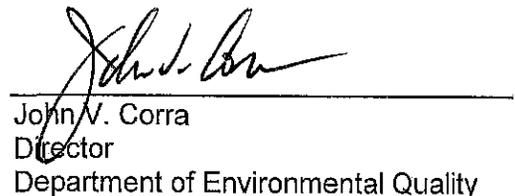
P58-79-2011		
Parameter	MW58-79-2011A Background Value (mg/L) (01/12/2006)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1390	3000
TDS	2990	5000
pH	7.1	6.5 – 8.5 (s.u)

- Reporting results of quarterly monitoring and sampling are due to the department by January 15th, April 15th, July 15th, and October 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately three months apart;

- If the initial discharge into the impoundment has not occurred by the quarterly report date, a groundwater compliance sample is not required for that quarterly period. The operator shall notify the DEQ that discharge has not occurred;
 - If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
 - The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deq-cbmgroundwater@wyo.gov;
 - The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above;
 - After one year of quarterly monitoring, the WDEQ will evaluate the groundwater geochemical trends and may modify the monitoring frequency requirements.
- 4 of 4 Any exceedance of the water quality standards listed above will be considered a violation of this permit. If an exceedance of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:


 John F. Wagner
 Administrator
 Water Quality Division


 John V. Corra
 Director
 Department of Environmental Quality

4-18-12
 Date of Issuance

CS/bb/12-0324



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. **12-061**

REFERENCE PERMIT NOS. 10-018 (05-702, 06-196) and 10-024 (05-702)

Box Elder POD (Phase I and II)

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of twelve (12) compliance monitoring wells according to the procedures and conditions of Permit to Construct number **12-061**. The wells are proximal to coalbed methane produced water impoundments located in Township 58N, Range 78W, Section 19 and in Township 58N, Range 79W, Sections 24 and 27 in the county of Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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

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

1 of 4 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, 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 4 Monitoring Requirements:

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundments shall be performed on a semi-annual basis until further notice and shall include the following information:

- Measurement of static water elevation in monitoring wells: MW58-79-2710, MW58-79-2710A, MW58-79-2710B, MW58-79-2712, MW58-79-2401, MW58-79-2401A, MW58-79-2401B, MW58-79-2401C, MW58-79-2401D, MW58-78-1913, MW58-78-1913A and MW58-78-1913B;
- Sampling and analysis of groundwater at down-gradient wells: MW58-79-2710, MW58-79-2710B, MW58-79-2712, MW58-79-2401A, MW58-79-2401C, MW58-78-1913, MW58-78-1913A, MW58-78-1913B;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

P58-79-2710

Parameter	MW58-79-2710 Background Value (mg/L) (07/12/2005)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1880	3000
TDS	3410	5000
pH	6.8	6.5 – 8.5 (s.u)

P58-79-2710

Parameter	MW58-79-2710B Background Value (mg/L) (10/26/2005)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1590	3000
TDS	2940	5000
pH	7.2	6.5 – 8.5 (s.u)

P58-79-2712

	MW58-79-2712 Background Value (mg/L) (07/12/2005)	Class III Water Quality Standards (mg/L)
Parameter		
Selenium	ND	0.05
Sulfate	1960	3000
TDS	3650	5000
pH	7.1	6.5 – 8.5 (s.u)

P58-79-2401

	MW58-79-2401A Background Value (mg/L) (10/25/2005)	Class III Water Quality Standards (mg/L)
Parameter		
Selenium	ND	0.05
Sulfate	888	3000
TDS	1730	5000
pH	7.6	6.5 – 8.5 (s.u)

P58-79-2401

	MW58-79-2401C Background Value (mg/L) (02-08-2006)	Class III Water Quality Standards (mg/L)
Parameter		
Selenium	ND	0.05
Sulfate	952	3000
TDS	1880	5000
pH	7.7	6.5 – 8.5 (s.u)

P58-78-1913

	MW58-78-1913 Background Value (mg/L) (08/02/2005)	Class III Water Quality Standards (mg/L)
Parameter		
Selenium	ND	0.05
Sulfate	2160	3000
TDS	4040	5000
pH	7.3	6.5 – 8.5 (s.u)

P58-78-1913

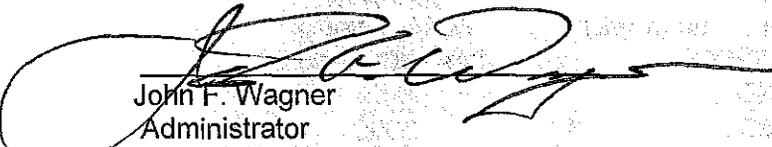
	MW58-78-1913A Background Value (mg/L) (10/25/2005)	Class III Water Quality Standards (mg/L)
Parameter		
Selenium	ND	0.05
Sulfate	1800	3000
TDS	3490	5000
pH	7.8	6.5 – 8.5 (s.u)

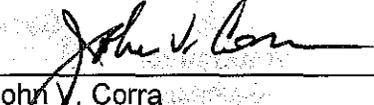
P58-78-1913

Parameter	MW58-78-1913B Background Value (mg/L) (10/25/2005)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	2490	3000
TDS	4110	5000
pH	7.9	6.5 – 8.5 (s.u)

- Reporting results of semi-annual sampling and analysis are due to the department by January 15th and July 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately six months apart;
 - If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
 - The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deq-cbmgroundwater@wyo.gov;
 - The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above.
- 3 of 4 The WDEQ may require a more frequent sampling schedule based on results of groundwater monitoring data analyses.
- 4 of 4 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:


 John F. Wagner
 Administrator
 Water Quality Division


 John V. Corra
 Director
 Department of Environmental Quality

4-18-12
 Date of Issuance

CS/rm/12-0325



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 12-062

REFERENCE PERMIT NO. 05-672

Cutler Draw POD

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of two (2) compliance monitoring wells according to the procedures and conditions of Permit To Construct number 12-062. The wells are proximal to coalbed methane produced water impoundments located in Township 57N, Range 74W, Sections 4 and 7 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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

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

1 of 4 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, 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 4 **Monitoring Requirements:**
 Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundments shall be performed on a semi-annual basis until further notice and shall include the following information:

- Measurement of static water elevation in monitoring wells: 14MW-4AL and 14MW-7AL;
- Sampling and analysis of groundwater from down-gradient wells: 14MW-4AL and 14MW-7AL;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

14-4

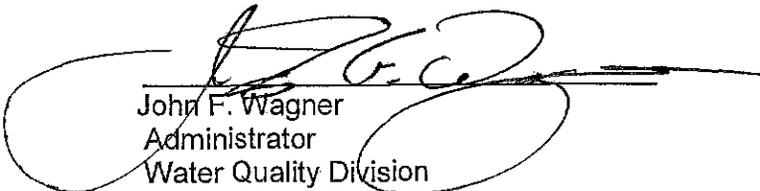
Parameter	14MW-4AL Background Value (mg/L) (08/02/2005)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1180	3000
TDS	2360	5000
pH	7.9	6.5 – 8.5 (s.u)

14-7

Parameter	14MW-7AL Background Value (mg/L) (08/02/2005)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1790	3000
TDS	3470	5000
pH	7.9	6.5 – 8.5 (s.u)

- Reporting results of semi-annual sampling and analysis are due to the department by January 15th and July 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately six months apart;
 - If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
 - The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deg-cbmgroundwater@wyo.gov;
 - The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above.
- 3 of 4 The WDEQ may require a more frequent sampling schedule based on results of groundwater monitoring data analyses.
- 4 of 4 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

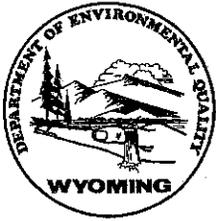
AUTHORIZED BY:


 John F. Wagner
 Administrator
 Water Quality Division


 John X. Corra
 Director
 Department of Environmental Quality

4-18-12
 Date of Issuance

CS/rm/12-0326



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 12-063

REFERENCE PERMIT NO. 08-562

Homestead Draw II

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of four (4) compliance monitoring wells according to the procedures and conditions of Permit to Construct number 12-063. The wells are proximal to coalbed methane produced water impoundments located in Township 56N, Range 74W, Sections 13 and 14 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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

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

1 of 4 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, 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 4 Monitoring Requirements:

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundments shall be performed on a semi-annual basis until further notice and shall include the following information:

- Measurement of static water elevation in all monitoring wells: Cleanout MW-01, Cleanout MW-02, Center MW-01 and Center MW-02;
- Sampling and analysis of groundwater from all wells: Cleanout MW-01 and Center MW-01;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments.

Cleanout

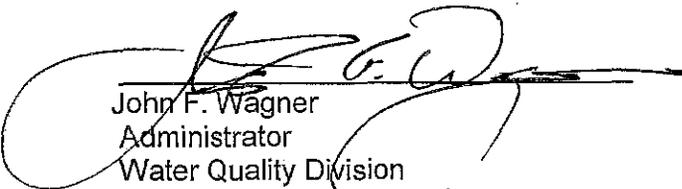
Parameter	Cleanout MW-01 Background Value (mg/L) (08/03/2006)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1110	3000
TDS	2000	5000
pH	7.18	6.5 – 8.5 (s.u)

Center

Parameter	Center MW-01 Background Value (mg/L) (11/14/2006)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	725	3000
TDS	1410	5000
pH	7.52	6.5 – 8.5 (s.u)

- Reporting results of semi-annual sampling and analysis are due to the department by January 15th and July 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately six months apart;
 - If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
 - The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deq-cbmgroundwater@wyo.gov;
 - The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above.
- 3 of 4 The WDEQ may require a more frequent sampling schedule based on results of groundwater monitoring data analyses.
- 4 of 4 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:


 John F. Wagner
 Administrator
 Water Quality Division


 John V. Corra
 Director
 Department of Environmental Quality

4-18-12
 Date of Issuance

CS//rm/12-0327



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 12-065

REFERENCE PERMIT NO. 05-467

LOWER SA 14-24 and 13-24 Reservoirs

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of six (6) compliance monitoring wells according to the procedures and conditions of Permit to Construct number 12-065. The wells are proximal to coalbed methane produced water impoundments located in Township 57N, Range 75W, Section 24 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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

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

1 of 4 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, 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 4 Monitoring Requirements:

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundments shall be performed on an annual basis until further notice and shall include the following information:

- Measurement of static water elevation in all monitoring wells: 14MW-24A, 14MW-24BB, MW58-80-2412, MW58-80-2412A, MW58-80-2412B, and MW58-80-2412C;
- Sampling and analysis of groundwater at down-gradient wells: 14MW-24A, 14MW-24BB and MW58-80-2412C;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

14-24		
Parameter	14MW-24A Background Value (mg/L) (2/22/2005)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	2870	3000
TDS	4800	5000
pH	7.7	6.5 – 8.5 (s.u)

14-24		
Parameter	14MW-24BB Background Value (mg/L) (11/21/2005)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	865	3000
TDS	2100	5000
pH	8.4	6.5 – 8.5 (s.u)

13-24

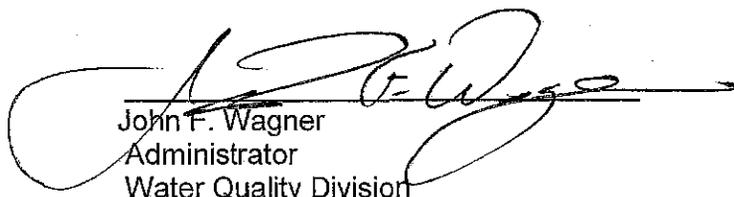
Parameter	4MW-25A Background Value (mg/L) (11/21/2005)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	367	3000
TDS	1580	5000
pH	8.3	6.5 – 8.5 (s.u)

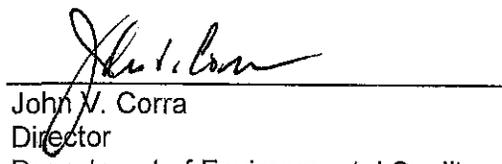
- Reporting results of annual sampling and analysis are due to the department by January 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately twelve months apart;
- If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
- The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deq-cbmgroundwater@wyo.gov;
- The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above.

3 of 4 The WDEQ may require a more frequent sampling schedule based on results of groundwater monitoring data analyses.

4 of 4 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

4-18-12
Date of Issuance



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 12-067
REFERENCE PERMIT NO. 08-533

Oedekoven

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of two (2) compliance monitoring wells according to the procedures and conditions of Permit to Construct number 12-067. The wells are proximal to coalbed methane produced water impoundments located in Township 57N, Range 74W, Section 5 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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

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

- 1 of 4 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, 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 4 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 4 Monitoring Requirements:

Impoundment 14-5-57-74

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level in monitoring well: 14MW-5;
- Sampling and analysis of groundwater from down-gradient well: 14MW-5;
- The parameters listed in the table below are required for groundwater compliance monitoring beneath the listed impoundment:

14-5-57-74		
Parameter	14MW-5 Background Value (mg/L) (6/26/2008)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1410	3000
TDS	3040	5000
pH	8.0	6.5 – 8.5 (s.u)

- Reporting results of quarterly sampling analysis are due to the department by January 15th, April 15th, July 15th, and October 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately three months apart;

- If the initial discharge into the impoundment has not occurred by the quarterly report date, a groundwater compliance sample is not required for that quarterly period. The operator shall notify the DEQ that discharge has not occurred;
- After one year of quarterly monitoring, the WDEQ will evaluate the groundwater geochemical trends and may modify the monitoring frequency requirements.

Impoundment 12-5-57-74

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on a semi-annual basis until further notice and shall include the following information:

- Measurement of static water level in monitoring well: 12MW-5A;
- Sampling and analysis of groundwater from down-gradient well: 12MW-5A;
- The parameters listed in the table below are required for groundwater compliance monitoring beneath the listed impoundment:

12-5-57-74		
Parameter	12MW-5A Background Value (mg/L) (5/27/2008)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	2230	3000
TDS	4020	5000
pH	7.8	6.5 – 8.5 (s.u)

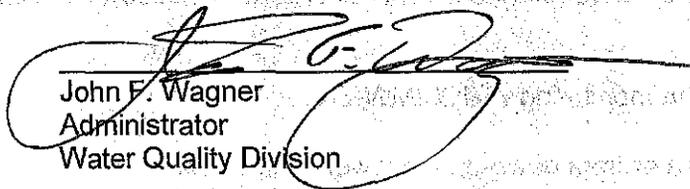
- Reporting results of semi-annual sampling and analysis are due to the department by January 15th and July 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately six months apart;

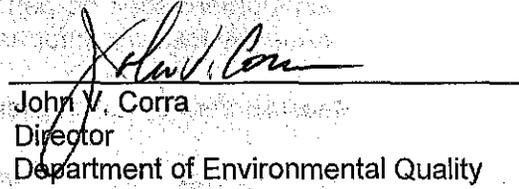
All Impoundments

- If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
- The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deq-cbmgroundwater@wyo.gov;
- The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above.

4 of 4 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

4-18-12
Date of Issuance

CS/rm/12-0330



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 12-068

REFERENCE PERMIT NOS. 10-019 (05-523 and 06-307)

Randall Prong

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of nineteen (19) compliance monitoring wells according to the procedures and conditions of the Permit To Construct number **12-068**. The facilities are proximal to the coalbed methane produced water impoundments located in Township 58N, Range 80W, Sections 20 and 28 in the county of Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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

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

1 of 5 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 5 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 5 **Monitoring Requirements:**

Impoundments: P58-50-2811 and P58-80-2004

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water elevation in monitoring wells: MW58-80-2811, MW58-80-2811A, MW58-80-2811B, MW58-80-2004, MW58-80-2004A, MW58-80-2004B;
- Sampling and analysis of groundwater at down-gradient wells: MW58-80-2811B, MW58-80-2004A;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

P58-80-2811		
Parameter	MW58-80-2811B Background Value (mg/L) (05/26/05)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1230	3000
TDS	2600	5000
pH	7.9	6.5 – 8.5 (s.u)

P58-80-2004		
Parameter	MW58-80-2004A Background Value (mg/L) (01/25/06)	Class III Water Quality Standards (mg/L)
Selenium	0.005	0.05
Sulfate	13	3000
TDS	1460	5000
pH	8.4	6.5 – 8.5 (s.u)

- Reporting results of quarterly sampling and analysis are due to the department by January 15th, April 15th, July 15th and October 15th of each year. Samples may be collected at any time, but must be scheduled such that sampling events occur approximately three months apart;
- If the initial discharge into the impoundment has not occurred by the quarterly report date, a groundwater compliance sample is not required for that period. The operator shall notify the DEQ each quarter that discharge has not occurred;
- After one year of quarterly monitoring, the WDEQ will evaluate the groundwater geochemical trends and may modify the monitoring frequency requirements.

Impoundments: P58-80-1909A, P58-80-2002, P58-80-2012 and P58-80-2803

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundments shall be performed on an annual basis until further notice and shall include the following information:

- Measurement of static water elevation in all monitoring wells: MW58-80-1909A, MW58-80-1909AA, MW58-80-1909AB, MW58-80-1909B, MW58-80-2002, MW58-80-2002A, MW58-80-2002B, MW58-80-2002C, MW-58-80-2803, MW-58-80-2803A, MW-58-80-2803B, MW58-80-2012A, P58-80-2012B;
- Sampling and analysis of groundwater at down-gradient wells: MW58-80-1909A, MW58-80-2002C, MW58-80-2012A, P58-80-2012B and MW-58-80-2803A;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

P58-80-1909A		
Parameter	MW58-80-1909A Background Value (mg/L) (03/09/05)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1320	3000
TDS	2390	5000
pH	7.3	6.5 – 8.5 (s.u)

P58-80-2002

Parameter	MW58-80-2002C Background Value (mg/L) (08/03/05)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	7	3000
TDS	1340	5000
pH	8.0	6.5 – 8.5 (s.u)

P58-80-2012

Parameter	MW58-80-2012A Background Value (mg/L) (05/25/05)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1290	3000
TDS	2400	5000
pH	7.3	6.5 – 8.5 (s.u)

P58-80-2012

Parameter	MW58-80-2012B Background Value (mg/L) (06/13/05)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1320	3000
TDS	2440	5000
pH	7.2	6.5 – 8.5 (s.u)

P58-80-2803A

Parameter	MW58-80-2803A Background Value (mg/L) (05/03/05)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1430	3000
TDS	3000	5000
pH	7.9	6.5 – 8.5 (s.u)

- Reporting results of annual sampling and analysis are due to the department by January 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately twelve months apart.

All Impoundments

- If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
- The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance

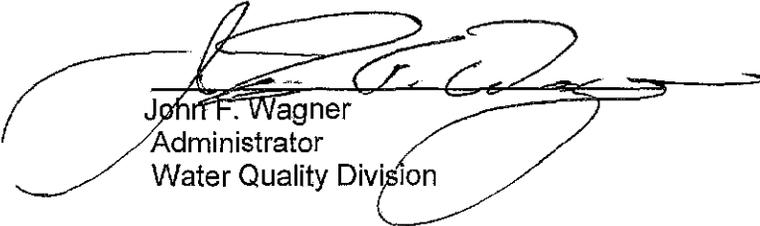
Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deq-cbmgroundwater@wyo.gov;

- The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above.

4 of 5 The WDEQ may require a more frequent sampling schedule based on results of groundwater monitoring data analyses.

5 of 5 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:



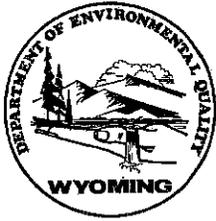
John F. Wagner
Administrator
Water Quality Division



John V. Corra
Director
Department of Environmental Quality

4-18-12
Date of Issuance

CS/rm/12-0331



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 12-069

REFERENCE PERMIT NO. 10-017 (06-151, 06-580, 07-864, 07-865, 08-092, 08-100, 08-145,
08-164, and 08-174)

River POD

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of thirty seven (37) compliance monitoring wells according to the procedures and conditions contained in Permit to Construct number **12-069**. The wells are proximal to coalbed methane produced water impoundments located in Townships 56N and 57N, Ranges 76W, 77W and 78W in the counties of Campbell and Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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

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

- 1 of 5 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 5 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences,
- 3 of 5 **Monitoring Requirements:**

Impoundments: P5677-0507, P5777-3210, P5776-1920, P5776-1922, P5678-1316, and P5776-1401

Discharge into the impoundments listed above has not occurred as of the writing of this permit. Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundments shall be performed on a **quarterly** basis until further notice and shall include the following information:

- Measurement of static water elevation in monitoring wells: MW5677-0508A, MW5777-3210A, MW5776-1920B, MW5776-1922B, MW5678-1316A, MW5776-1401C, and MW5776-1401B;
- Sampling and analysis of groundwater from down-gradient wells: MW5677-0508A, MW5777-3210A, MW5776-1920B, MW5776-1922B, MW5678-1316A, and MW5776-1401C;
- If the initial discharge into an impoundment has not occurred by the quarterly report date, a groundwater compliance sample is not required for that quarterly period. The operator shall notify the DEQ that discharge has not occurred;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

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P5677-0507

Parameter	MW5677-0508A Background Value (mg/L) (05/14/07)	Class III Water Quality Standards (mg/L)
Arsenic	0.0005	0.2
Selenium	ND	0.05
Sulfate	1630	3000
TDS	2840	5000
pH	7.3	6.5 – 8.5 (s.u)

P5777-3210

Parameter	MW5777-3210A Background Value (mg/L) (06/07/07)	Class III Water Quality Standards (mg/L)
Arsenic	0.0006	0.2
Selenium	ND	0.05
Sulfate	1310	3000
TDS	2250	5000
pH	7.3	6.5 – 8.5 (s.u)

P5776-1920

Parameter	MW5776-1920B Background Value (mg/L) (06/19/06)	Class III Water Quality Standards (mg/L)
Arsenic	0.0016	0.2
Selenium	ND	0.05
Sulfate	1650	3000
TDS	2910	5000
pH	7.2	6.5 – 8.5 (s.u)

P5776-1922

Parameter	MW5776-1922B Background Value (mg/L) (06/19/06)	Class III Water Quality Standards (mg/L)
Arsenic	0.0029	0.2
Selenium	ND	0.05
Sulfate	1530	3000
TDS	2760	5000
pH	6.9	6.5 – 8.5 (s.u)

P5678-1316

Parameter	MW5678-1316A Background Value (mg/L) (06/05/07)	Class III Water Quality Standards (mg/L)
Arsenic	0.0025	0.2
Selenium	ND	0.05
Sulfate	1910	3000
TDS	3910	5000
pH	7.1	6.5 – 8.5 (s.u)

P5776-1401

Parameter	MW5776-1401C Background Value (mg/L) (01/24/06)	Class III Water Quality Standards (mg/L)
Arsenic	0.0049	0.2
Selenium	ND	0.05
Sulfate	1730	3000
TDS	3500	5000
pH	7.4	6.5 – 8.5 (s.u)

Surface water Protection

- Because of the proximity of the impoundment to surface water, sampling and analysis of groundwater for surface water protection is required at monitoring well: MW5776-1401B;
- The parameters listed in the table below are required for surface water protection monitoring beneath the listed impoundment:

P5776-1401

Parameter	MW5776-1401B Background Value (mg/L) (01/24/06)
EC	?
SAR (Na, Ca, Mg)	7.23
Sulfate	2910
TDS	5220
Selenium	ND

- After one year of quarterly monitoring, the WDEQ will evaluate the groundwater geochemical trends and may modify the monitoring frequency requirements.

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Impoundment P5776-0906

Changes in groundwater quality warrant a quarterly compliance schedule at the impoundment listed above. Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water elevation in monitoring wells: MW5776-0906E and MW5776-0906F;
- Sampling and analysis of groundwater from down-gradient wells: MW5776-0906E and MW5776-0906F;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

P5776-0906

Parameter	MW5776-0906E Background Value (mg/L) (02/02/06)	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	ND	0.05
Sulfate	1980	3000
TDS	3720	5000
pH	7.2	6.5 – 8.5 (s.u)

P5776-0906

Parameter	MW5776-0906F Background Value (mg/L) (02/25/10)	Class III Water Quality Standards (mg/L)
Arsenic	ND	0.2
Selenium	0.003	0.05
Sulfate	1840	3000
TDS	3710	5000
pH	7.2	6.5 – 8.5 (s.u)

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Impoundments P5776-0911, P5677-0909 and P5776-1503

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundments shall be performed on a semi-annual basis until further notice and shall include the following information:

- Measurement of static water elevation in all monitoring wells: MW5776-0911A, MW5776-0911B, MW5677-0909A, MW5677-0909D, MW5677-0909E, MW5776-1503A, MW5776-1503B, and MW5776-1503C;
- Sampling and analysis of groundwater from down-gradient groundwater monitoring wells: MW5776-0911A, MW5776-0911B, MW5677-0909A and MW5776-1503C;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

P5776-0911

Parameter	MW5776-0911A Background Value (mg/L) (02/02/06)	Class III Water Quality Standards (mg/L)
Arsenic	0.0096	0.2
Selenium	ND	0.05
Sulfate	2570	3000
TDS	4510	5000
pH		6.5 – 8.5 (s.u)

P5776-0911

Parameter	MW5776-0911B Background Value (mg/L) (02/02/06)	Class III Water Quality Standards (mg/L)
Arsenic	0.0029	0.2
Selenium	ND	0.05
Sulfate	1610	3000
TDS	3460	5000
pH	7.2	6.5 – 8.5 (s.u)

P5677-0909

Parameter	MW5677-0909A Background Value (mg/L) (05/25/05)	Class III Water Quality Standards (mg/L)
Arsenic	0.0013	0.2
Selenium	ND	0.05
Sulfate	1320	3000
TDS	2580	5000
pH	7.4	6.5 – 8.5 (s.u)

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P5776-1503

Parameter	MW5776-1503C Background Value (mg/L) (02/02/06)	Class III Water Quality Standards (mg/L)
Arsenic	0.0417	0.2
Selenium	ND	0.05
Sulfate	20	3000
TDS	1320	5000
pH	7.4	6.5 – 8.5 (s.u)

Surface water Protection

- Because of the proximity of the impoundments to surface water, sampling and analysis of groundwater for surface water protection is required at monitoring wells: MW5677-0909D, MW5677-0909E, MW5677-0910D, and MW5677-1012A, MW5776-1503A and MW5776-1503B;
- When groundwater is present, the parameters listed in the tables below are required for surface water protection monitoring beneath the listed impoundment:

P5677-0909

Parameter	MW5677-0909D Background Value (mg/L) (02/14/08)
EC	2746
SAR-(Na, Ca, Mg)	8.51 (456, 94, 74)
Sulfate	922
TDS	2000
Selenium	ND

P5677-0909

Parameter	MW5677-0909E Background Value (mg/L) (05/20/08)
EC	DRY
SAR (Na, Ca, Mg)	
Sulfate	
TDS	
Selenium	

P5677-0909

Parameter	MW5677-0910D Background Value (mg/L) (05/30/08)
EC	DRY
SAR (Na, Ca, Mg)	
Sulfate	
TDS	
Selenium	

P5677-0909

Parameter	MW5677-1012A Background Value (mg/L) (05/30/08)
EC	DRY
SAR (Na, Ca, Mg)	
Sulfate	
TDS	
Selenium	

P5776-1503

Parameter	MW5776-1503A Background Value (mg/L) (08/17/05)
EC	?
SAR (Na, Ca, Mg)	8.07
Sulfate	3210
TDS	5820
Selenium	ND

P5776-1503

Parameter	MW5776-1503B Background Value (mg/L) (02/02/06)
EC	?
SAR (Na, Ca, Mg)	11.5
Sulfate	4600
TDS	7360
Selenium	ND

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Impoundments P5677-1713, P5677-1614, P5677-1715, P776-0904, P5677-0413, P5677-0915, P5677-2008, P5776-1514, P5677-1116, P5677-1401, P5776-1108 and P5776-0914

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundments shall be performed on an annual basis until further notice and shall include the following information:

- Measurement of static water elevation in monitoring wells: MW5677-1713C, MW5677-1611A, MW5677-1715A, MW5776-0904A, MW5677-0413B, MW5677-0915A, MW5677-0915D, MW5677-0915E, MW5677-0915G, MW5677-2008A, MW5677-2105A, MW5776-1514A, MW5776-1514B, MW5677-1213A, MW5677-1305B, MW5776-1108A, MW5776-1108B, and MW5776-0914C;
- Sampling and analysis of groundwater from down-gradient groundwater monitoring well: MW5677-1713C, MW5677-1611A, MW5677-1715A, MW5776-0904A, MW5677-0413B, MW5677-0915A, MW5677-2008A, MW5776-1514A, and MW5776-1108B;
- The parameters listed in the table below are required for compliance monitoring beneath the listed impoundments:

P5677-1713

Parameter	MW5677-1713C Background Value (mg/L) (08/28/07)	Class III Water Quality Standards (mg/L)
Arsenic	0.0096	0.2
Selenium	ND	0.05
Sulfate	8	3000
TDS	973	5000
pH	8.2	6.5 – 8.5 (s.u)

P5677-1614

Parameter	MW5677-1611A Background Value (mg/L) (05/10/07)	Class III Water Quality Standards (mg/L)
Arsenic	0.0002	0.2
Selenium	ND	0.05
Sulfate	938	3000
TDS	2500	5000
pH	7.6	6.5 – 8.5 (s.u)

P5677-1715

Parameter	MW5677-1715A Background Value (mg/L) (10/23/07)	Class III Water Quality Standards (mg/L)
Arsenic	0.0031	0.2
Selenium	ND	0.05
Sulfate	303	3000
TDS	1460	5000
pH	8.1	6.5 – 8.5 (s.u)

P5776-0904

Parameter	MW5776-0904A Background Value (mg/L) (08/23/05)	Class III Water Quality Standards (mg/L)
Arsenic	0.0083	0.2
Selenium	ND	0.05
Sulfate	17	3000
TDS	1250	5000
pH	8.1	6.5 – 8.5 (s.u)

P5677-0413

Parameter	MW5677-0413B Background Value (mg/L) (08/08/07)	Class III Water Quality Standards (mg/L)
Arsenic	0.0046	0.2
Selenium	ND	0.05
Sulfate	1790	3000
TDS	3090	5000
pH	7.4	6.5 – 8.5 (s.u)

P5677-0915

Parameter	MW5677-0915A Background Value (mg/L) (06/05/07)	Class III Water Quality Standards (mg/L)
Arsenic	0.0002	0.2
Selenium	ND	0.05
Sulfate	1	3000
TDS	1070	5000
pH	8.0	6.5 – 8.5 (s.u)

P5677-2008

Parameter	MW5677-2008A Background Value (mg/L) (08/16/07)	Class III Water Quality Standards (mg/L)
Arsenic	0.0096	0.2
Selenium	ND	0.05
Sulfate	3	3000
TDS	959	5000
pH	7.4	6.5 – 8.5 (s.u)

P5776-1514

Parameter	MW5776-1514A Background Value (mg/L) (05/25/05)	Class III Water Quality Standards (mg/L)
Arsenic	0.019	0.2
Selenium	ND	0.05
Sulfate	954	3000
TDS	2170	5000
pH	7.2	6.5 – 8.5 (s.u)

P5776-1108

Parameter	MW5776-1108B Background Value (mg/L) (01/31/06)	Class III Water Quality Standards (mg/L)
Arsenic	0.002	0.2
Selenium	ND	0.05
Sulfate	2470	3000
TDS	4270	5000
pH	7.9	6.5 – 8.5 (s.u)

Surface water Protection

- Because of the proximity of the impoundments to surface water, sampling and analysis of groundwater for surface water protection is required at monitoring wells: MW5677-0915D, MW5677-0915E, MW5677-0915G, MW5677-2105A, MW5776-1514B, MW5677-1213A, MW5677-1305B, MW5776-1108A and MW5776-0914C;
- The parameters listed in the tables below are required for surface water protection monitoring beneath the listed impoundment:

P5677-0915

Parameter	MW5677-0915D Background Value (mg/L) (02/14/08)
EC	5643
SAR (Na, Ca, Mg)	5.27 (619, 399, 391)
Sulfate	3190
TDS	5680
Selenium	0.187

P5677-0915

Parameter	MW5677-0915E Background Value (mg/L) (05/30/08)
EC	DRY
SAR (Na, Ca, Mg)	
Sulfate	
TDS	
Selenium	

P5677-0915

Parameter	MW5677-0915G Background Value (mg/L) (05/30/08)
EC	DRY
SAR (Na, Ca, Mg)	
Sulfate	
TDS	
Selenium	

P5677-2008

Parameter	MW5677-2105A Background Value (mg/L) (04/30/08)
EC	DRY
SAR (Na, Ca, Mg)	
Sulfate	
TDS	
Selenium	

P5776-1514

Parameter	MW55776-1514B Background Value (mg/L) (02/08/07)
EC	DRY
SAR (Na, Ca, Mg)	
Sulfate	
TDS	
Selenium	

P5677-1116

Parameter	MW5677-1213A Background Value (mg/L) (05/28/08)
EC	DRY
SAR (Na, Ca, Mg)	
Sulfate	
TDS	
Selenium	

P5677-1401

Parameter	MW5677-1305B Background Value (mg/L) (05/28/08)
EC	DRY
SAR (Na, Ca, Mg)	
Sulfate	
TDS	
Selenium	

P5776-1108

Parameter	MW5776-1108A Background Value (mg/L) (01/31/06)
EC	?
SAR (Na, Ca, Mg)	13
Sulfate	2990
TDS	5390
pH	ND

P5776-0914

Parameter	MW5776-0914C Background Value (mg/L) (11/27/06)
EC	
SAR (Na, Ca, Mg)	
Sulfate	DRY
TDS	
Selenium	

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Summary of Monitoring Frequency Requirements

	Impoundment Name	Compliance Monitoring Well(s)	Sampling Frequency
<u>Quarterly- No Discharge</u>	P5677-0507	MW5677-0508A	Quarterly
	P5777-3210	MW5777-3210A	Quarterly
	P5776-1920	MW5776-1920B	Quarterly
	P5776-1922	MW5776-1922B	Quarterly
	P5678-1316	MW5678-1316A	Quarterly
	P5776-1401	MW5776-1401C *MW5776-1401B	Quarterly Quarterly
<u>Quarterly- Change in GW Chemistry</u>	P5776-0906	MW5776-0906E, MW5776-0906F	Quarterly
<u>Semi-Annual- No Surface Water Protection</u>	P5776-0911	MW5776-0911A, MW5776-0911B	Semi-Annual
<u>Semi-Annual- With Surface Water Protection</u>	P5776-1503	*MW5776-1503A, *MW5776-1503B, MW5776-1503C	Semi-Annual
	P5677-0909	MW5677-0909A, *MW5677-0909D, *MW5677-0909E, *MW5677-0910D, *MW5677-1012A	Semi-Annual
<u>Annual- No Surface Water Protection</u>	P5677-1713	MW5677-1713C	Annual
	P5677-1614	MW5677-1611A	Annual
	P5677-1715	MW5677-1715A	Annual
	P5776-0904	MW5776-0904A	Annual
	P5677-0413	MW5677-0413B	Annual
<u>Annual- With Surface Water Protection</u>	P5677-0915	MW5677-0915A, *MW5677-0915D, *MW5677-0915E, *MW5677-0915G	Annual
	P5677-2008	MW5677-2008A, *MW5677-2105A	Annual
	P5776-1514	MW5776-1514A, *MW5776-1514B	Annual
	P5677-1116	*MW5677-1213A	Annual
	P5677-1401	*MW5677-1305B	Annual
	P5776-1108	*MW5776-1108A, MW5776-1108B	Annual
	P5776-0914	*MW5776-0914C	Annual

*For surface water protection

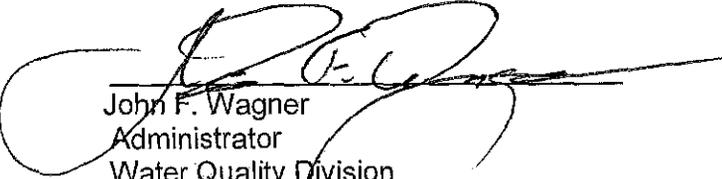
All Impoundments

- Reporting results of quarterly monitoring and sampling are due to the department by January 15th, April 15th, July 15th and October 15th of each year. Samples may be collected at any time, but must be scheduled such that sampling events occur approximately three months apart;
- Reporting results of semi-annual monitoring and sampling are due to the department by January 15th and July 15th of each year. Samples may be collected at any time, but must be scheduled such that sampling events occur approximately six months apart;
- Reporting results of annual monitoring and sampling are due to the department by January 15th of each year. Samples may be collected at any time, but must be scheduled such that sampling events occur approximately twelve months apart;
- If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
- The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deg-cbmgroundwater@wyo.gov;
- The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above.

4 of 5 The WDEQ may require a more frequent sampling schedule based on results of groundwater monitoring data analyses.

5 of 5 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

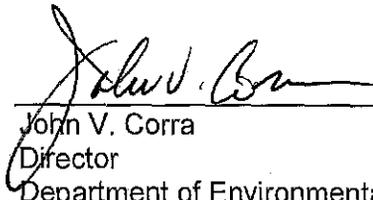
AUTHORIZED BY:



John F. Wagner
Administrator
Water Quality Division

4-18-12

Date of Issuance



John V. Corra
Director
Department of Environmental Quality

CS/rm/12-0332



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 12-070

REFERENCE PERMIT NOS. 10-016, 05-066 and 06-060

WEST ANTELOPE POD

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of seven (7) compliance monitoring wells according to the procedures and conditions of Permit to Construct number 12-070. The wells are proximal to coalbed methane produced water impoundments located in Township 58N, Range 80W, Section 24 and 27 in the county of Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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.

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

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

1 of 4 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 West 5th St., Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, 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 4 Monitoring Requirements:

Impoundment P58-80-2705

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on a semi-annual basis until further notice and shall include the following information:

- Measurement of static water elevation in all monitoring wells: MW58-80-2705, MW58-80-2705A, MW58-80-2705B;
- Sampling and analysis of groundwater at down-gradient wells: MW58-80-2705 and MW58-80-2705A;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

P58-80-2705

Parameter	MW58-80-2705	Class III
	Background Value (mg/L) (12/02/2004)	Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1150	3000
TDS	2320	5000
pH	7.1	6.5 – 8.5 (s.u)

P58-80-2705

Parameter	MW58-80-2705A	Class III
	Background Value (mg/L) (12/29/2004)	Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	844	3000
TDS	2130	5000
pH	7.6	6.5 – 8.5 (s.u)

- Reporting results of semi-annual sampling and analysis are due to the department by January 15th and July 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately six months apart;

Impoundment P58-80-2412

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on an annual basis until further notice and shall include the following information:

- Measurement of static water elevation in all monitoring wells: MW58-80-2412, MW58-80-2412A, MW58-80-2412B, and MW58-80-2412C;
- Sampling and analysis of groundwater at down-gradient wells: MW58-80-2412C;
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

P58-80-2412		
Parameter	MW58-80-2412C Background Value (mg/L) (12/13/2005)	Class III Water Quality Standards (mg/L)
Selenium	ND	0.05
Sulfate	1240	3000
TDS	2840	5000
pH	7.7	6.5 – 8.5 (s.u)

- Reporting results of annual sampling and analysis are due to the department by January 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately twelve months apart;

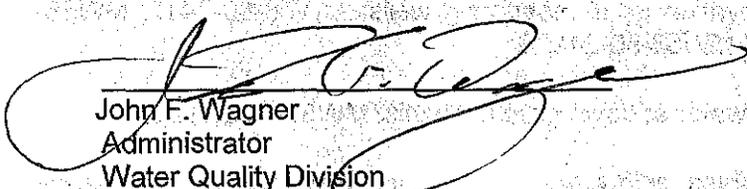
All Impoundments

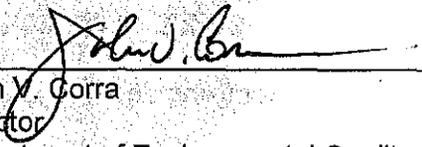
- If a groundwater monitoring event reveals a pH measurement of 6.5 or less, the DEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
- The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deq-cbmgroundwater@wyo.gov;
- The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above.

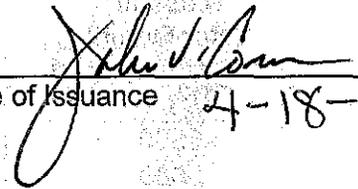
3 of 4 The WDEQ may require a more frequent sampling schedule based on results of groundwater monitoring data analyses.

4 of 4 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality


Date of Issuance

4-18-12

CS/rm/12-0333



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. 12-071
REFERENCE PERMIT No. 10-277

Westway POD: 6-12-55-77

This permit hereby authorizes the applicant:

Storm Cat Energy USA
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to assume ownership from JM Huber Corporation of three (3) compliance monitoring wells according to the procedures and conditions of Permit to Construct number 12-071. The wells are proximal to a coalbed methane produced water impoundment located in Township 55N, Range 77W, Section 12 in the county of Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (WDEQ) 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.

Nothing in this permit constitutes an endorsement by WDEQ 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 WDEQ 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 operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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

1 of 4 The permittee will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/Water Quality Division, Groundwater Section, 2100 W. 5th St. Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, 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 4 Monitoring Requirements:

Unless otherwise specified, monitoring and reporting of the groundwater beneath the impoundment shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level in all monitoring wells: 6MW-12A, 6MW-12B and 6MW-12C;
- Sampling and analysis of groundwater from down-gradient well: 6MW-12C;
- The parameters listed in the table below are required for groundwater compliance monitoring beneath the listed impoundment:

6-12-55-77

Parameter	6MW-12C Background Value (mg/L) (03/25/2010)	Class III Water Quality Standards (mg/L)
Selenium	056 (totals)	0.05
Sulfate	851	3000
TDS	2210	5000
pH	8.44	6.5 – 8.5 (s.u)

- Previous groundwater monitoring events have revealed a pH measurement of 6.5 or less. The WDEQ is therefore requiring sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc;
- Reporting results of quarterly sampling and analysis are due to the department by January 15th, April 15th, July 15th, and October 15th of each year. Samples may be collected at any time during the reporting period, but must be scheduled such that sampling events occur approximately three months apart;
- The analytical results for each sampling event, along with impoundment and monitoring well location information must be submitted in the Excel spread sheet "Compliance

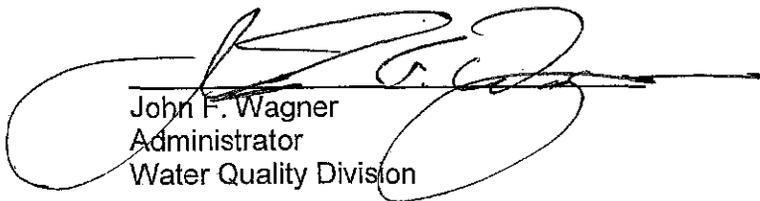
Monitoring Data Report". This report form can be obtained by emailing a request to the following address: deg-cbmgroundwater@wyo.gov;

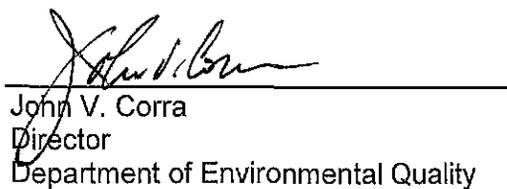
- The Compliance Monitoring Data Report (Excel format), along with accompanying analytical laboratory reports and field documentation (pdf format) shall be submitted electronically on the established due dates to the email address listed above.

3 of 4 The WDEQ may revise the sampling schedule based on results of groundwater monitoring data analyses.

4 of 4 Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

4-18-12
Date of Issuance

CS/rm/12-0334



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

John Corra, Director

NOTIFICATION OF COVERAGE

March 22, 2012

Leslie Gibson III, Board Chairman
Teton Village Water and Sewer District
P.O. Box 586
Teton Village, WY 83025

RE: Teton Village Sewer Main Replacement
DEQ Permit #12-072
Teton County,
Latitude 43.587417°, Longitude 110.82750°
SE ¼, S 24, T42N, R117W

Dear Mr. Gibson,

This project consists of the replacement of an existing 47-year-old 8 inch diameter clay sewer line and a 40-year-old 6 inch diameter PVC pipe with new 8 inch and 6 inch diameter PVC pipe; including one new manhole and service lines.

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

You are authorized to construct, the facility in accordance with the the materials submitted in your application package and the General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems. Construction shall be completed by September 30, 2014.

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.

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



Sincerely,



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

xc: PDF to Cheyenne
Josh Kilpatrick, P.E., Nelson Engineering, PO Box 1599, 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

John Corra, Director

NOTIFICATION OF COVERAGE

March 15, 2012

Scott Peters, Mayor
Town of Shoshoni
P.O. Box 267
Shoshoni, WY 82649

RE: Shoshoni Sewer Improvements: 4th to 7th Street and 3rd to Oregon St.
DEQ Permit #12-073
Fremont County, Latitude 43.2391°, Longitude -108.1136°

Dear Mayor Peters,

This project consists of the replacement of approximately 1,100 feet of sewer main in the alleys between Oak and California from 4th to 7th street, and the relocation of the sewer main between 3rd Street and Oregon Street.

A variance was requested from Chapter 11, Section 9 (c)(i)(C) which requires a minimum slope of 0.004 ft/ft for 8-inch pipe. A variance from this regulation is granted based upon Policy 13.9.13. due to historical success at this lower slope with existing clay pipes. The clay pipes will be replaced PVC pipes, which have superior flow characteristics to the older style pipe. The Town of Shoshoni is not able to achieve sewer slopes as indicated in the Chapter 11 regulations due to naturally occurring site constraints. The Town of Shoshoni has acknowledged that the low slope pipes may require additional maintenance.

The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; and Chapter 11, Part B 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. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

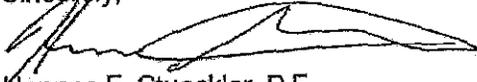
These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

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



If you have any questions, please contact 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
Mark Butler P.E., Inberg-Miller Engineering, 350 Parsley Blvd., Cheyenne WY 82007



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

John Corra, Director

NOTIFICATION OF COVERAGE

April 10, 2012

Chuck Straw
Superior Rental
P.O. Box 1159
Evanston, WY 82930

RE: Evanston - Superior Rental - Water Main - Permit Number 12-074, Lot 2 West Interchange Addition Subdivision, Section 19, T15N, R120W, Uinta County

Dear Mr. Owen:

The above application for coverage under **General Permit to Construct** for the extension of a **Public Water Supply System** consisting of about 210 linear feet (LF) of 6-inch ductile iron water main in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. 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.

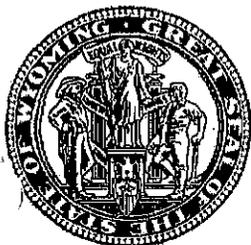
Sincerely,

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

PDF to Cheyenne
Mike Carlton, P.E., Wilding Engineering, Inc., 14721 S. Heritage Crest Way, Bluffdale, UT 84065

Page 1 of 1





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

John Corra, Director

NOTIFICATION OF COVERAGE

March 21, 2012

Rebecca Chaney
Public Works Director
Town of Wamsutter
P.O. Box 6
Wamsutter, WY 82336

RE: Town of Wamsutter - 2012 Water, Sewer and Street Improvement Project - Permit Number 12-075, NW ¼ Section 34, T20N, R94W, Sweetwater County

Dear Ms. Chaney:

The above application for coverage under **General Permits to Construct** the extension of a **Public Water Supply System** consisting of about 7640 linear feet (L.F) of 8-inch PVC water main and the extension of **Public Sewage Collection System** consisting of about 5,470 linear feet of 8-inch PVC sewer main in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the 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,

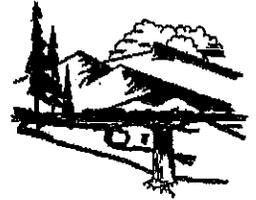
Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

PDF to Cheyenne
Seth Tourney, P.E., PMPC, P.O. Box 370, Saratoga, WY 82331





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

John Corra, Director

March 22, 2012

Wally Johnson, Chairman
Sweetwater County Board of Commissioners
80 West Flaming Gorge Way
Green River, WY 82935

Subject: Non-Adverse Recommendation, Resource Engineering Subdivision,
Sweetwater County, DEQ/WQD Application # 12-076

Dear Mr. Chairman:

The Wyoming Department of Environmental Quality has completed the review of the proposed Resource Engineering Subdivision located in the NE ¼ of Section 9, T19N, R105W, 6th P.M., Sweetwater County, Wyoming. Generally described, the property is located at the intersection of Yellowstone Road and Mesa Drive, which is about 2.75 miles northwest of the intersection of HWY 191 and I-80 in the City of Rock Springs, Wyoming. The Resource Engineering Subdivision will create two commercial lots out of 4.88 acres. The information was submitted by Uinta Engineering, signed by Rob Young, P.E., a Wyoming Licensed Engineer. 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 existing sewage system consists of two sewer services and a 8-inch diameter sewage collection main with manholes. White Mountain Water and Sewer District operates the sewage collection system. The existing sewage system is safe and adequate for the Resource Engineering Subdivision.

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

The existing water system consists of two water services and an 8-inch water main in Mesa Drive and a 10-inch water main in Cathedral Drive. White Mountain Water and Sewer District (Public Water System Number WY5601391) operates the existing public water system, which procures water through the Rock Springs - Green River - Sweetwater County Joint Powers Water Board System. The existing water system is safe and adequate for the Resource Engineering Subdivision.



Sweetwater County Board of Commissioners
March 22, 2012

Conclusions:

The Department of Environmental Quality has "Non-Adverse" recommendations applicable to Resource Engineering Subdivision.

Disclaimer:

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

Nothing in Department of Environmental Quality recommendations or comments regarding Uinta Engineering's proposal, for Resource Engineering Subdivision, shall be construed to relieve Gerald Fedrizzi 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 Sweetwater County to the issuance of required permits for construction, operation, or modification of water supply or sewage systems.

Sincerely,



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

MDB/mdb

XC:

Eric Bingham, Sweetwater County Planning & Zoning, 80 West Flaming Gorge Way, Green River, Wyoming 82935

Gerald Fedrizzi, 1901 Yellowstone Road, Rock Springs, WY 82901

Rob Young, P.E., Uinta Engineering & Surveying, Inc., 2638 Commercial Way, Rock Springs, WY 82901

Mr. Mike Ebsen, Water Management Specialist, Wyoming State Engineers Office, Herschler Building, 4th Floor East, Cheyenne, WY 82002

IPS & Rich Cripe, WDEQ/WQD, Cheyenne



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

May 21, 2012

Andrew Beamer, P.E.
City of Casper
200 N. David Street
Casper, WY 82601

RE: 2012 Miscellaneous Sanitary Sewer Improvements
Application No. 12-077, Natrona County

Dear Mr. Beamer:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Sewage Collection Systems, consisting of the lining of approximately 9,800 feet of vitrified clay pipe, the replacement of 600 feet of pipe, 975 feet of new sewer pipe, and the replacement and lining of manholes at various locations throughout the City of Casper, located in Township 33N, Range 79W, Natrona County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations (WWQRR) has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with Chapter 11 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, 2013**.

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. In accordance with WWQRR Chapter 11, Section 9(f) proposed sanitary sewer lines and manholes must maintain ten feet of horizontal separation from water lines including service lines, when the vertical separation is less than 1.5 feet. Where separation cannot be maintained, the sanitary sewer line must be placed in a separate conduit pipe or the crossing must be flow-filled.

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
Jason Knopp, P.E., City of Casper, 200 N. David Street, Casper, WY 82601

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





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Matthew H. Mead, Governor

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

John Corra, Director

March 26, 2012

Jason Knopp, P.E.
City of Casper
200 N. David Street
Casper, WY 82601

RE: 2012 Miscellaneous Sanitary Sewer Improvements, Project No. 12-06
Location: T. 33 N, R. 79 W, Casper, WY
WDEQ Application #12-077

Dear Mr. Knopp:

We have completed our review of the permit application submitted on March 7, 2012. 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) 473-3469 or Karen L. Farley at (307) 473-3478 should you have any questions related to these comments or the application and review process.

Sincerely,

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

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

Attachments: WDEQ Comments

cc: 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: 2012 Misc. Sanitary Sewer Improvements, Project No. 12-06

LOCATION: Casper, Wyoming

ENGINEER: Jason Knopp, P.E., City of Casper

APPLICANT: Andrew Beamer, P.E., City of Casper

WATER QUALITY DIVISION APPLICATION NUMBER: 12-077

DATE ON PROPOSAL/PLANS/REPORT: March 6, 2012

DATE RECEIVED BY DEQ: March 7, 2012

DATE OF THIS REVIEW: March 26, 2012

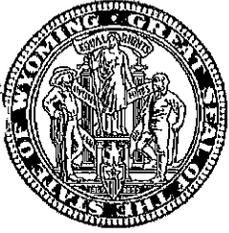
WDEQ REVIEWER: Jason Vreeland, P.E., Karen L. Farley, P.E.

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) WWQRR Chapter 11, Section 6(b)(i) – Please provide a vicinity map with existing pipe sizes related to the Nowcap sewer. The scope and purpose of this portion of the project is difficult to understand with the information provided.
- 2) WWQRR Chapter 11, Section 7(b)(iii) – Please provide a detail for MH ER-0055 showing how the contractor is to reconfigure the manhole channels to evenly split the flow between the lines.
- 3) WWQRR Chapter 11, Section 9(c)(i)(D) – Please calculate the maximum velocity for the Nowcap sewer between stations 8+91 and 9+69 and modify the design if appropriate.

- 4) WWQRR Chapter 11, Section 6(b) – Sheet 6 shows the sanitary sewer ending at station 0+00. Please explain where this line drains. Also, a variance will need to be requested with justification for the very low slope sewer line.
- 5) WWQRR Chapter 11, Section 7(b)(ii) – On Sheet 6, please show the storm sewer crossings in the profile.
- 6) WWQRR Chapter 11, Section 7(b) – Please clarify what manholes are to remain and which are to be replaced on Sheet 7. The notes in the plan view as well as the profile direct the contractor to “REMAIN IN REPLACE” the manholes.
- 7) WWQRR Chapter 11, Section 7(b) – Please clarify the invert elevation for MH A-1274 on Sheet 8.
- 8) WWQRR Chapter 11, Section 9(f)(ii) – The manhole at station 8+92 on sheet 5 appears to be less than ten feet from the waterline. Please address.
- 9) WWQRR Chapter 11, Section 7(b)(iv) – On sheet 7, please show the location on the profile of all water service lines that intersect the proposed sanitary sewer line.
- 10) WWQRR Chapter 11, Section 9(f)(ii) – On sheet 7, the proposed sanitary sewer line appears to be within ten feet of existing water line. Please address.
- 11) WWQRR Chapter 11, Section 9(c)(i)(A) – Please ensure that the Nowcap sewer line has adequate cover. It appears that the sewer is close to frost depth at stations 4+50 and 8+90.



Department of Environmental Quality

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Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

March 22, 2012

E. John Watson
1195 S. Guernsey Rd.
Wheatland, WY 82201

RE: Tom Watson Residential Septic System,
Application No. **12-078, Platte County**

Dear Mr. Watson:

The above application for coverage under **General Permit to Construct**, Install, Modify or Operate a **Small Wastewater Facility** consisting of a 1000 gallon, two compartment, concrete septic tank discharging into about 90 feet of chamber type trench leachfield divided into two equal length trenches of nine(9) *Hancor Envirochamber* brand, Pro Arc Standard Unit model chamber units each, for a 3 bedroom home, located in the **SW¼ NW¼, Section 9, T25N, R65W, 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 small wastewater system in accordance with **Chapter 11, PART D** 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 March 22, 2014.

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://deg.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp
Please reference Application No. **12-078** in any future correspondence.

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

Sincerely,

Ronald L. Ewald
Assistant Southeast District Engineer
Southeast District, Water & Wastewater Section
Water Quality Division

RLE/rm/12-0234

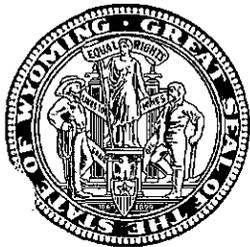
Enclosures: Certificate of Completion

cc: IPS, Cheyenne
Platte County Planning Office, Reed Elmquist, P.O. Box 728, Wheatland,
Wyoming 82201

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-7982	ABANDONED MINES (307) 777-6145 FAX 777-8482	AIR QUALITY (307) 777-7391 FAX 777-5816	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7766 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

April 16, 2012

Wyoming Department of Transportation
Attn: Ray Vigil, Facilities Management Program Manager
5300 Bishop Blvd.
Cheyenne, Wyoming 82001

RE: WyDOT Materials Lab/Planning Bldg -- Sewer Extensions & Replace Lift Station,
Application No. **12-079, Laramie County**

Dear Mr. Vigil:

The above application for coverage under **General Permit to Construct**, Install, Modify or Operate Extensions to or Modifications of an Existing **Sewage Collection System** consisting of about 58 feet of 4" SDR 35 PVC sewer service line, 146 feet of 8" PVC sewer pipe, a new manhole, and a factory built duplex pump station that is an automatically controlled above ground submersible pump valve package set above a concrete vault wet well containing the sewage pumps, pump lifting guide rails, and valves, located in the **SW¼, Section 24, T14N, 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 sewage collection system in accordance with **Chapter 11, Section 9** of the Water Quality Division Rules and Regulations, and 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 permits. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **April 16, 2014**.

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. **12-079** in any future correspondence.

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

Sincerely,

Ronald L. Ewald
Assistant Southeast District Engineer
Water Quality Division

RLE/rm/12-0322

Enclosures: Certificate of Completion form

cc: IPS, Cheyenne

Thomas J. Watson, WWC Engineering, 611 Skyline Road, Laramie, WY 82070



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 12-080

New _____
Renewal _____
Modified X

Wyoming Air National Guard Site 4 Additional Monitoring Wells

This permit hereby authorizes the applicant:

Wyoming Air National Guard
217 Dell Range Blvd
Cheyenne, WY 82009

to construct, install or modify 10 monitoring wells (8 nested, 2 stand alone) according to the procedures and conditions of the application number 12-080. The facility is located in S 19.30; T14N; R66W in the county of Laramie, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2012.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Pollution Control Office, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781; FAX (307) 777-5973.

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

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

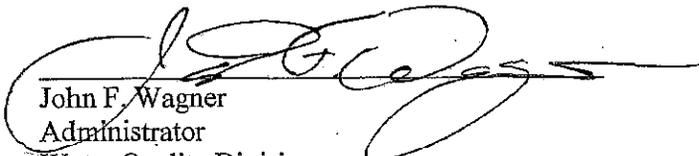
WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT*
4-MW1 through 4-MW73** PZ-8 through PZ-10**	As specified in the work plan	As specified in the work plan	TCE and CCl ₄	5

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

**Includes nested wells with A and B nomenclature

7 of 7 The results of these analyses shall be submitted to the Cheyenne office at the following address: Groundwater Pollution Control Office, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002 by the last day of the month following the end of each reporting period. The first set of results are due no later than January 1, 2004.

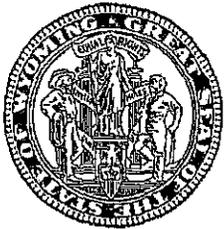
AUTHORIZED BY:


 John F. Wagner
 Administrator
 Water Quality Division


 John Corra
 Director
 Department of Environmental Quality

4-5-12
 Date of Issuance

ADN/rm/12-0290



Department of Environmental Quality

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Matthew H. Mead, Governor

John Corra, Director

December 6, 2011

Richard P. McCoy, Technical Advisor
Environmental Restoration
NGB/A70R
Shepherd Hall
3501 Fetchet Avenue
Andrews Air Force Base, MD 20762-5157

RE: Pre-Design Investigation Work Plan, Remedial Design, Remedial Action-Construction, and Remedial Action-Operation at Operable Units 1 and 2, Optimization of the Long-Term Groundwater Monitoring Program for Site 4 **Technical Memorandum**, Wyoming Air National Guard Base, Cheyenne, Wyoming (November 11, 2011), received November 11, 2011

Dear Mr. McCoy:

The Wyoming Department of Environmental Quality (WDEQ) has reviewed the above referenced document. This document presents a proposed long-term monitoring optimization program. Rationale for selection of certain monitoring wells is provided however rationale for installation of proposed additional monitoring wells is lacking.

On-site monitoring wells are not an issue, however off-site monitoring wells are. While WDEQ understands the need for performance monitoring wells to determine whether the remedy is effective or not, it is unclear why existing off-site monitoring wells can't be used for long-term monitoring. Previous model runs have been performed successfully with existing monitoring wells and an extensive groundwater monitoring database exists consisting of over 100 monitoring wells.

WDEQ therefore approves installation of performance monitoring wells at the proposed locations for MW-72 and MW-76, and, for the single location replacing the MW-74 and 75 locations. In recent conversations between BPA and WDEQ, EPA and WDEQ agree that installation of additional off-site monitoring wells beyond these is not approved at this time. Following a sampling event, of the proposed off-site existing and new monitoring wells, EPA and WDEQ agree that installation of additional monitoring wells can then be re-evaluated.

This technical memorandum meets requirements for this document with incorporation of comments. WDEQ has also discussed, and concurs with, EPA's anticipated comments. If you have any questions, please contact me at jane.francis@wyo.gov, at (307) 777-7092, or at the address listed below. WDEQ appreciates the continuing efforts of the Air National Guard in resolving the environmental issues at this Air National Guard site.

Sincerely,

Jane Francis, P.G.
Geological Supervisor, Groundwater Section
JAF/rm/11-1039

cc David Rathke, EPA, Denver
Casey Hudson, CH2MHill, Atlanta, Georgia
Doug Vetter, City Engineer, Cheyenne

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ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6482	AIR QUALITY (307) 777-7391 FAX 777-5816	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5854	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-6973
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GROUNDWATER POLLUTION CONTROL PROGRAM
REVIEW COMMENTS ON:

Pre-Design Investigation Work Plan, Remedial Design, Remedial Action-Construction, and Remedial Action-Operation at Operable Units 1 and 2, Optimization of the Long-Term Groundwater Monitoring Program for Site 4 **Technical Memorandum**, Wyoming Air National Guard Base, Cheyenne, Wyoming

LEAD AGENCY: Air National Guard

CONSULTANT: ERM, Inc.

MAIN ISSUES:

TCE has been detected in shallow zone groundwater at a maximum concentration of 18 ppb. TCE has been detected in intermediate zone groundwater at a maximum concentration at of 140 ppb.

Carbon Tetrachloride has been detected in shallow zone groundwater at a maximum concentration of 20 ppb. Carbon Tetrachloride has been detected in intermediate zone groundwater at a maximum concentration of 180 ppb.

REVIEW COMMENTS ADDRESSED?

Not applicable. This is the first review of this document

NEXT STEP IN CERCLA PROCESS:

Installation of monitoring wells north of Dell Range Blvd. is anticipated to begin in January 2012.

STATUS: work is proceeding on schedule.

GENERAL COMMENTS:

The philosophy behind the long-term monitoring (LTM) program at Site 4 appears well thought through and reasonable. This is a well-written tech memo.

However, the proposed wells are not described in enough detail in this tech memo. WDEQ is reluctant to allow drilling in the neighborhood due to the additional inconveniences put on the home owners. More information on each proposed well and its purpose would be helpful. At this time, WDEQ is willing to allow the monitoring wells north of Dell Range required for performance monitoring of the passive reactive barrier (PRB). However, the other wells proposed in the neighborhood do not appear to serve a function essential to the success of the remedial action, and WDEQ does not approve them at this time. If a compelling argument is made for these wells, besides filling in a data gap, WDEQ may allow them following a sampling event of proposed off-site monitoring wells.

SPECIFIC COMMENTS:

Page 3, 2nd Paragraph: The Mann-Kendall test was used to determine whether contaminants of concern (COCs) had a statistical trend in all of the monitoring wells from 2000 to 2010. Please include whether seasonality has been accounted for in this analysis.

Page 6, 2nd Paragraph: This paragraph describes the vertical hydraulic gradients between the shallow and intermediate zones in operable units OU-1 and OU-2. Please provide information on whether and how this information influenced the LTM decisions. The other optimization considerations have a statement about how they influenced the LTM plan. This section is missing that conclusion.

Table 2: The information presented in this table is very useful. Similar tables (or an expanded table) for the rest of the monitoring wells should be included. The additional information should include:

- 1.) The wells that were dropped from LTM and why.
- 2.) The purpose of the proposed new wells.

End of Review



Department of Environmental Quality

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Matthew H. Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

May 9, 2012

Westfield Development, LLC
Attn: Paul Hoffman, Member
405 N. Mason Court, Suite 111
Fort Collins, CO 80524

RE: Fox Addition – Water & Sewer Extensions,
Application No. **12-082, Albany County**

Dear Mr. Hoffman:

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 approximately 970 feet of 8" PVC C-900 water pipe, four gate valves, and one fire hydrant, and Existing **Sewage Collection Systems** consisting of approximately 720 feet of 8" SDR 35 PVC sewer pipe, and four new manholes, located in the SE¼, **Section 30, 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** of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with, **Chapter 11, Section 9** of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permits, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **May 9, 2014**.

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

Please reference Application No. **12-082** in any future correspondence.

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

Sincerely,

Ronald L. Ewald
Assistant Southeast District Engineer
Water Quality Division

RLE/rm/12-0410

Enclosures: Certificate of Completion form

cc: IPS, Cheyenne

Mark Oberschmidt, Coffey Engineering & Surveying, 902 South 3rd Street, Laramie, WY 82070

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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 777-5937	LAND QUALITY (307) 777-7766 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

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

John Corra, Director

NOTIFICATION OF COVERAGE

April 27, 2012

Charles Ehrlich
P.O. Box 508
Mills, WY 82644

RE: Town of Mills – Lariat RV Park Expansion - 2012
Permit No. 12-083, NE ¼ of Section 12, Township 33 North, Range 80 West, Natrona County

Dear Mr. Ehrlich:

The above application for coverage under General Permits to Construct the extension of a Public Water Supply System and the extension of a Public Sewage Collection System, to provide for the installation of water and sewer lines to service 6 new RV spaces in accordance with Chapter 3, Section 7 and Chapter 11 and Chapter 12 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the 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 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

All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2013.

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

Sincerely,

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

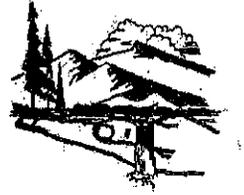
cc: PDF to Cheyenne
WDEQ Casper File
Barry Venn, P.E., 609 Consulting LLC, 5830 East 2nd Street, Casper, WY 82609
Mike Coleman, Town of Mills Public Works Director, P.O. Box 789, Mills, WY 82644
Matt Williams, P.E., Town Engineer, P.O. Box 789, Mills, WY 82644





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

John Corra, Director

April 2, 2012

Barry Venn, P.E.
609 Consulting, LLC
5830 East 2nd Street
Casper, WY 82609

RE: Lariat RV Park Expansion - 2012, Town of Mills, Natrona County
WDEQ Application #12-083

Dear Barry:

We have completed our review of the permit application submitted on March 12, 2012. 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.
WDEQ/WQD Northeast District Supervisor

Attachments: WDEQ Comments

cc: Charles Ehrlich, 4100 Arroyo, Casper, WY 82604
Dale Smith, Town of Mills, P.O. Box 789, Mills, WY 82644
WDEQ File, IPS



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: Lariat RV Park Expansion - 2012

LOCATION: Town of Mills, Natrona County

ENGINEER: Barry Venn, PE #4584

APPLICANT: Charles Ehrlich

WATER QUALITY DIVISION APPLICATION NUMBER: 12-083

DATE ON PROPOSAL/PLANS/REPORT: March 2012

DATE RECEIVED BY DEQ: March 12, 2012

DATE OF THIS REVIEW: April 2, 2012

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.**

SANITARY SYSTEM

- 1) Chapter 11, Section 58(a) – *“If sewerage system services are to be provided by a second person, a letter of verification from the system manager stating that they are capable of handling added organic and/or hydraulic loads shall be provided by the owner/operator of the system.”* Please provide a statement from the Town of Mills that confirms that the town has adequate sewer capacities to serve the additional sites. The letter provided from the interim public works director, Mike Coleman, doesn't confirm that the town has capacity.



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Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

March 29, 2012

Lydia Owen
Sweetwater County Child Development Services
520 Wilkes, Unit 14
Green River, WY 82935

RE: Green River - Sweetwater County Child Development Center - Permit Number 12-084, NE 1/4 Section 34, T18N, R107W, Sweetwater County

Dear Ms. Owen:

The above application for coverage under **General Permits to Construct** the extension of a **Public Water Supply System** consisting of about 473 linear feet (LF) of 8-inch, 64 LF of 6-inch and 64 LF of 4-inch PVC water main and the extension of **Public Sewage Collection System** consisting of about 374 LF of 8-inch and 147 LF of 6-inch PVC sewer main in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the 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
Thomas J. Watson, P.E., WWC Engineering, 611 Skyline Road, Laramie, WY 82070

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John Corra, Director

NOTIFICATION OF COVERAGE

March 23, 2012

Richard Welch
Sweetwater Development Group, LLC
273 East Capital Street
Salt Lake City, Utah 84103

RE: The Villas at Morningside Phase 1 - Water and Sewer Mains - Permit Number 12-085, SW ¼ Section 15, T19N, R105W, Sweetwater County

Dear Mr. Welch:

The above application for coverage under **General Permits to Construct** the extension of a **Public Water Supply System** consisting of about 1275 linear feet (LF) of 8-inch PVC water main and the extension of **Public Sewage Collection System** consisting of about 922 linear feet of 8-inch PVC sewer main to serve 16 residential lots and a public park in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the 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

Josh Wright, P.E., Uinta Engineering and Surveying, 808 Main St., Evanston, WY 82930





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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

April 9, 2012

Doug Hoff
1820 Cracker Barrel Lane
Spearfish, SD 57783

RE: Hoff Small Wastewater System
Application No. 12-086, Crook County

Dear Mr. Hoff:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1,000 gallon septic tank discharging into one trench of Biodiffuser Standard Unit Chambers approximately 95 feet in length, for a barn located in the SW $\frac{1}{4}$, Section 13, Township 55N, Range 64W, 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 11, Part D 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, 2013**.

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,

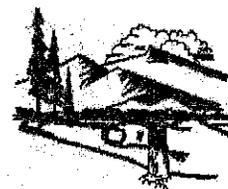
Jason Vreeland, P.E.
Assistant NE District Engineer
WDEQ/WQD

cc: IPS, Cheyenne
WDEQ Casper File
Tim Lyons, Crook County Growth and Development
Gantz Backhoe Service, Inc., P.O. Box 280, Hulett, WY 82720





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Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

April 10, 2012

Rose Watkins, Chairman
Hot Springs County Cemetery District
P.O. Box 568
Thermopolis, WY 82443

RE: Monument Hill Cemetery Shop Septic System
DEQ Permit #12-087
Located in Hot Springs County, (SW1/4, SW1/4 S25, T43N, R95W)

Dear Ms. Watkins,

This project consists of the installation of a standard septic leachfield for a shop building located at monument Hill cemetery in Thermopolis. The system will consist of a 1000 gallon septic tank and 40 linear feet of perforated pipe in a standard trench.

The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; and Chapter 11 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**. Construction shall be completed by October 31, 2014.

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.

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



Sincerely,



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

xc: PDF to Cheyenne
CONSULTANT



Department of Environmental Quality



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Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

March 26, 2012

Mark Kurtz
John Bunning Transfer, Inc.
1600 Elk Street
Rock Springs, WY 82935

RE: Rock Springs - John Bunning Pipe Yard Office/Shop - Water and Sewer Mains, Permit Number 12-088, SW ¼ Section 35, T19N, R105W, Sweetwater County

Dear Mr. Kurtz:

The above application for coverage under **General Permits to Construct** the extension of a **Public Water Supply System** consisting of a 6-inch PVC fire hydrant lead and fire hydrant and the extension of a **Public Sewage Collection System** consisting of about 635 linear feet of 6-inch PVC sewer main to serve an office and a shop in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the 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
Brandt Lyman, P.E., JFC Engineers & Surveyors, 1515 Ninth St., Rock Springs, WY 82901

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Matthew H. Mead, Governor

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

John Corra, Director

March 27, 2012

Loren A. Woodin, P.E.
JLM Engineering, Inc.
39 N. Main Street
Buffalo, WY 82834

RE: Return of Application for Permit to Construct for the Cloud Peak Elementary School
DEQ Tracking Number: 12-089

Dear Mr. Woodin:

The Water and Wastewater Program received an application for a Permit to Construct for the above-referenced project on March 12, 2012. During the course of our review, it was determined that this project has been designed with the assumption that another portion will be designed and constructed at a later date, if funding allows. Chapter 11, Section 6, requires that downstream facilities must be able to accommodate the improvements. Because the immediate downstream sewer mains are not in place, nor has a permit to construct for them been submitted to this office, we cannot process this application at this time.

Therefore, in accordance with Chapter 3, Section 14 – Denial of a Permit or Coverage under a General Permit, we are returning the application materials to you. You can resubmit at any time; however, keep in mind that the downstream facilities (collection sewer lines) must have a completed design and preferably be submitted to this office for a permit to construct as well.

In addition, it appears that water improvements are also part of this project. These will need to have a Permit to Construct from this office as well.

If you have questions, I can be reached at 307-473-3478, or email karen.farley@wyo.gov.

Sincerely,

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

cc: IPS, WDEQ Casper File
Les Hook, City of Buffalo, 46 North Main Street, Buffalo, WY 82834
Matt Ramey, Johnson County School District No. 1, 601 West Lott Street, Buffalo, WY 82834

Page 1 of 1





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John Corra, Director

NOTIFICATION OF COVERAGE

March 23, 2012

Pete Frullo
519 Cheyenne Drive
Rock Springs, WY 82901

RE: Frullo Small Wastewater Treatment System - Permit Number 12-090, East 40
Subdivision, Lot 6, S 1/2 SW 1/4 & SW 1/4 SE 1/4, Sec 2, T33N 109W, Sublette County

Dear Mr. Frullo:

The above application for coverage under General Permit to Construct a Small Wastewater Facility consisting of an Advanced Enviro-Septic® Leaching System and a 1000 gallon septic to serve a three bedroom home in accordance with Chapter 3, Section 7 and Chapter 11, Part D of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permits. 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

xc: IPS, Cheyenne
Jason Zakotnik, WLC Engineering, P.O. Box 1519, Pinedale, WY 82941
Keith Raney, Environmental Health, Sublette County, P.O. Box 722, Pinedale, WY 82941





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John Corra, Director

NOTIFICATION OF COVERAGE

July 31, 2012

Gwen Gale
2715 Inverness Blvd.
Rawlins, WY 82301

RE: Gwen Gale Acres - Septic System,
Application No. 12-091, Carbon County

Dear Ms. Gale:

The above application for coverage under **General Permit to Construct**, Install, Modify or Operate a **Small Wastewater Facility** consisting of a 1500 gallon, two compartment, concrete septic tank discharging into about 100 feet of chamber type trench leachfield divided into two equal length trenches of at least 8 *Infiltrator* brand, High Capacity model chamber units each, for a 3 bedroom home, located in the **NW¹/₄, Section 13, T21N, R88W, Carbon 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 11, PART D** 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 July 31, 2014.

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. **12-091** in any future correspondence.

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

Sincerely,

Ronald L. Ewald
Assistant Southeast District Engineer
Southeast District, Water & Wastewater Section
Water Quality Division

RLE/rm/12-0685

Enclosures: Certificate of Completion

cc: IPS, Cheyenne
Kristy Rowan, Carbon County Planning Office, Carbon Building, 215 West Buffalo Street, Suite 336, Rawlins, Wyoming 82301

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) 777-7389 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5884	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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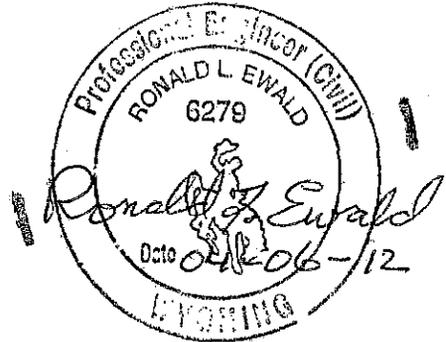


REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Gwen Gale Acres Residential Septic System
LOCATION: NW¼, Section 13, T21N, R88W, Carbon County
ENGINEER: None
APPLICANT: Gwen Gale
2715 Inverness Blvd.
Rawlins, Wyoming 82301
Ph: (307) 321-7510

WATER QUALITY DIVISION REFERENCE #: 12-091

REVIEWING ENGINEER: Ronald L. Ewald
Phone: (307) 777-6183
DATE OF REVIEW: April 6, 2012



ACTION: **NOT AUTHORIZED FOR CONSTRUCTION**. In accordance with Section 14 (a), Chapter III, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with Section 9. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. What Type of Leachfield Do You Intend to Build? - Do you intend to build a "chamber" leachfield or a traditional rock and perforated pipe? Your application package is inconsistent. When calculating your leachfield size you used the "Trench Design for Chamber Leachfield Systems" section of the worksheets. This gave you a result of 16 chamber units required which would be a total trench length of 100 feet. You used two trenches each 50 feet long. However, you used the

"Two Trench Pipe Leachfield" detail sheet, instead of the "Two Trench Chambered Leachfield" detail sheet. I, as the reviewer, cannot tell – and I cannot assume which type of leachfield you are really intending to build. According to the cross section of your pipe trench design you would need to have 173 linear feet of trench (692sf/4). This much trench divided into two trenches would appear to extend beyond your east property line.

Therefore, you need to make it clear what type of leachfield you want to build and do any recalculations needed, correct any drawings and submit the correct drawings. I am including some blank worksheets and detail sheets you may need to clear up this confusion.

Attachments: Worksheets pages: 4 and 5

Detail Sheets: Two Trench Pipe Leachfield
Four " " "
Two Trench Chambered Leachfield

RLE/rm/12-0303



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Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

April 27, 2012

Todd Gnose
2280 West Teton
Green River, WY 82935

RE: Rock Springs - The Estates At the Wind Rivers - Water and Sewer Mains - Permit Number 12-092, Fed. Lot 28, Section 28, T19N, R105W, 6th PM, Sweetwater County

Dear Mr. Gnose:

The above application for coverage under **General Permits to Construct** the extension of a **Public Water Supply System** consisting of about 2,650 linear feet (LF) of 8-inch PVC water main and the extension of **Public Sewage Collection System** consisting of about 1,700 linear feet of 8-inch PVC sewer main to serve a 31 lot residential subdivision in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the 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, 404 N. St., Suite 201, Rock Springs, WY 82901

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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

May 8, 2012

Andrew Beamer, P.E.
City of Casper
200 N. David Street
Casper, WY 82601

RE: 2012 Miscellaneous Waterline Replacement Project
Application No. 12-093, Natrona County

Dear Mr. Beamer:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Water Supply Distribution Systems, consisting of the replacement of existing waterlines with approximately 230 feet of 16 inch casing, 1,205 feet of 12 inch DIP, 960 feet of 8 inch DIP, and 6,450 feet of 8 inch PVC at various locations throughout the City of Casper, located in **Township 33N, Range 79W**, Natrona 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 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, 2013.

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
Michaela Sisk, P.E., City of Casper, 200 N. David Street, Casper, WY 82601





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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

March 26, 2012

Neil A. McMurry
747 West First Street
Casper, WY 82601

RE: T + T Small Wastewater System
Application No. 12-094, Crook County

Dear Mr. McMurry:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1,500 gallon septic tank discharging into two trenches of Biodiffuser Arc 36 Chambers approximately 100 feet in length each, for a four bedroom home located in the SW ¼, Section 1, Township 55N, Range 64W, 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 11, Part D 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, 2013.

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. 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
Tim Lyons, Crook County Growth and Development
JW Services LLC, 5119 State Highway 116, Sundance, WY 82729



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 12-095

New X
Renewal
Modified

Former Atlas Missile Site 4 Monitoring Well Installation

This permit hereby authorizes the applicant:

US Army Corps of Engineers
Jeffery A. Skog CENWO-PM-HA
1616 Capitol Ave, Suite 9000
Omaha, NE 68102-4901

to construct, install or modify monitoring wells MW-12R, MW-43 to 45R, MW-51-54, and MW-56 according to the procedures and conditions of the application number 12-095. The facility is located in SE1/4; NW 1/4; Section 20; T13N; R69W in the county of Laramie, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 30, 2012.

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

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

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

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

The permittee shall notify representatives from the DEQ, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Pollution Control Office, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781; FAX (307) 777-5973.

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

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

- vi. Names of individuals who performed the analyses;
- vii. The analytical techniques or methods used;
- viii. The results of such analyses, and;
- ix. Monitor wells shall be sampled and the groundwater analyzed as indicated on the following table:

WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT
MW-51 MW-52 MW-53 MW-54 MW-56 MW-12R MW-43R MW-44R MW-45R	As specified in work plan			

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

10 of 10 The results of these analyses shall be submitted to the Cheyenne office at the following address: Groundwater Pollution Control Office, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002 by the last day of the month following the end of each reporting period.

AUTHORIZED BY:

Bill DiRienzo (for)

John F. Wagner
Administrator
Water Quality Division

John V. Corra

John V. Corra
Director
Department of Environmental Quality

3-28-12

Date of Issuance

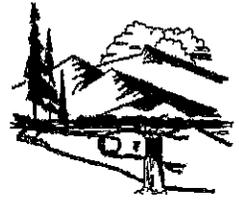
JAF/rm/12-0248

cc: Kevin Frederick, Jane Francis



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

John Corra, Director

August 31, 2011

Mr. Jeffery A. Skog
Project Manager, Environmental Programs
U.S. Army Corps of Engineers
CENWO-PM-H
1616 Capitol Avenue, Suite 9000
Omaha, NE 68102-4901

RE: Draft Final Work Plan for Supplemental Delineation at Sites 2, 3, & 4, Former Atlas "D" Missile Sites, Laramie County, Wyoming (August 2011), received August 26, 2011

Dear Mr. Skog:

The Wyoming Department of Environmental Quality (WDEQ) has reviewed the above-referenced document. Please find attached our review form. This work plan describes work to be conducted at three former missile sites. To further characterize the nature and extent of groundwater contamination at the sites, additional monitoring wells will be installed. Hydrophysics, geophysics, and discrete point sampling of groundwater will be conducted in some monitoring wells. Surface geophysics will also be conducted at one missile site. This work plan is acceptable with the comments below incorporated.

Missile Sites 2 and 3 are very important sites as both sites have trichloroethene (TCE) groundwater contamination at levels in the 10,000's ppb. The geology at each of these sites is complex and the hydrogeology, flow systems, and vertical distribution of groundwater contamination, are poorly understood. Hydrophysics and discrete point sampling at these sites have not been included and should be added to the work plan.

If you have any questions, please contact me at (307) 777-7092, at jane.francis@wyo.gov, or at the address listed below. WDEQ appreciates the continuing efforts of the US Army Corps of Engineers in resolving the environmental issues at this Formerly Used Defense Site.

Sincerely,

Jane A. Francis, P.G.
Geological Supervisor
Water Quality Division

JAF/rm/11-0796

cc: David Rathke, EPA
Bud Spillman, City of Cheyenne, BOPU
Kevin Boyce, WWDO
Frank Gardner, Bhate Environmental Associates, Inc., CO



August 31, 2011

Page 2

GROUNDWATER POLLUTION CONTROL PROGRAM
REVIEW COMMENTS ON:

Draft Final Work Plan for Supplemental Delineation at Sites 2, 3, & 4, Former Atlas "D" Missile Sites, Laramie County, Wyoming (August 2011), received August 26, 2011

LEAD AGENCY: U.S. Army Corps of Engineers, Omaha District

CONSULTANT: Bhate Environmental Associates, Inc.

MAIN ISSUES:

TCE has been detected on-site at former Atlas Missile Site 4 at a maximum level of 6600 ppb. TCE has been detected in municipal wells 8 1/2 miles down-gradient from former Atlas Missile Site 4 at a maximum of 40 ppb. The City of Cheyenne BOPU was forced to discontinue pumping in the Borie well field, in late 2008, because of an increase in TCE contamination in the Finnerty well.

Two domestic wells showing 13 and 28 ppb TCE, sampled in February 2009, had also been tested in 2005 and 2006 and had been below the EPA maximum drinking water standard of 5 ppb TCE. The increases in the Finnerty well, and in the domestic wells, suggest that the groundwater contaminant plume may be mobile or expanding.

REVIEW COMMENTS ADDRESSED?

Not applicable. This is the first review of this document

NEXT STEP IN CERCLA PROCESS:

A Feasibility Study is anticipated to be completed at Missile Site 4. Then, a Proposed Plan will be completed. Feasibility Studies have been completed for Sites 2 and 3. Proposed Plans are anticipated to be completed for these sites.

STATUS:

Work is proceeding on schedule.

GENERAL COMMENTS:

This report is very clear and readable, except for Figure 3, which is difficult to read as some well names and concentrations are very light. A Figure 3 like Figure 4 is preferable, and is recommended, as Figure 4 is much easier to read.

Missile Sites 2 and 3 are very important sites as both sites have trichloroethene (TCE) groundwater contamination at levels in the 10,000's ppb. The geology at each of these sites is complex and the hydrogeology, flow systems, and vertical distribution of groundwater contamination are poorly understood. Hydrophysics and discrete point sampling at these sites have not been included and should be added to the work

August 31, 2011

Page 3

plan.

Specific Comments:

Page 19, third paragraph, third sentence, the phrase, "after topographic low the operational timeline" appears to be missing some text. Please clarify.

Page 23, 1.) Section 3.5.3 Geophysical and Hydrophysical Logging: There is a typo in the last sentence of this section, "no performing as expected" should be replaced with "not".

Page 24, first paragraph, second sentence, the phrase, "at identified, actual constituent" appears to be missing some text. Please clarify.

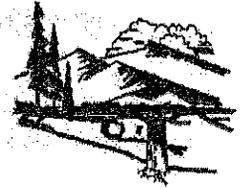
Page 24, third paragraph, states that actual depths of wells to be drilled will be determined based upon field conditions. Please describe what these field conditions are.

Replacement well MW-12R is discussed but replacement wells for MW-43, 44, and 45 are not discussed in the text all they are shown on Figure 10. Please add discussion of these replacement wells to the text.

Page 26, Section 3.5.6, Water Sampling refers to Section 3.3.4 Groundwater Sampling. Please substitute "Section 3.3.5 Water Sampling" as this is the correct title and section number.



Department of Environmental Quality



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Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

May 14th, 2012

Jeremy Parker, Associate Engineer
Town of Jackson
P.O. Box 1687
Jackson, WY 83001

RE: Jackson 2012 Sanitary Sewer Replacement Project
DEQ Permit #12-096
Located in Teton County, NW ¼ of SW ¼, SW ¼ of NW ¼, and SE ¼ of NE ¼, S33,
T41N, R116W

Dear Mr. Parker,

This project consists of replacing existing sanitary sewer pipes with new plastic sanitary sewer pipes. HDPE will be used where pipe bursting is specified. All other pipes will be PVC. Lines will be re-graded where possible. Manholes will be replaced where needed. Sewer services will be reconnected with updated fittings.

A variance was requested from Chapter 11, Section 9 (c)(i)(C) which requires a minimum slope of 0.004 ft/ft for 8-inch pipe. A variance from this regulation is granted based upon Policy 13.9.13. due to historical success at this lower slope with existing clay pipes. The clay pipes will be replaced with HDPE and PVC pipes, which have superior flow characteristics to the older style pipe. The Town of Jackson is not able to achieve sewer slopes as indicated in the Chapter 11 regulations due to naturally occurring site constraints. The Town of Jackson has acknowledged that the low slope pipes may require additional maintenance.

The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; and Chapter 11 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. Construction shall be completed by October 31, 2014

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:

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

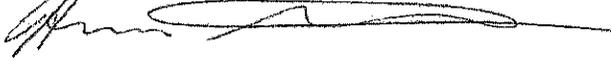
WATER QUALITY
(307) 332-3144
FAX 332-7726



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, PE, Jorgensen Associates, P.C., P.O. Box 9550, Jackson, WY 83002

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 12-097

Wamsutter - 2011 Well No. 9 and Transmission Line Chlorine Analyzer Project
Public Water System Number WY5600105

This permit hereby authorizes the applicant:

Colleen Eifealdt
Town of Wamsutter
P.O. Box 6
Saratoga, WY 82331

to construct a chlorine analyzer system for Wells Nos. 8, 9 and 10 according to the procedures and conditions of the application number 12-097. The facility is located about one mile north of Wamsutter in SE ¼ Section 22, T20N, R94W in the county of Sweetwater, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by April 3, 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.

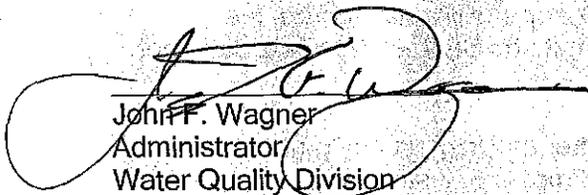
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

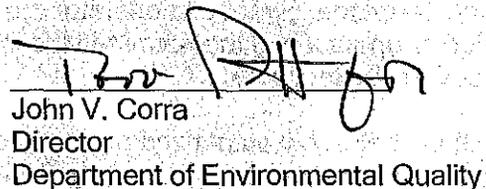
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization 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 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadow View 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 Southwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
- a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

4-5-12
Date of Issuance

MDB/rm/12-0300

STATEMENT OF BASIS

1. Permit Number: 12-097
2. Application reviewed for compliance with the following regulations:
Chapters 3 and 12 of the Wyoming Water Quality Rules and Regulations.
3. If a Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.
The chlorine analyzer will discharge wastewater into a drain field permitted under the Underground Injection Control Program (UIC).
4. 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., mark.baron@state.wy.us, Southwest District Engineer and completed on April 3, 2012. 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: Gary L. Steele, P.E., PMPC, P.O. Box 370, Saratoga, WY 82331



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

John Corra, Director

NOTIFICATION OF COVERAGE

April 12, 2012

Robert Hart
2004 Highway 585
Sundance, WY 82729

RE: Hart As-Built Small Wastewater System
Application No. 12-098, Crook County

Dear Mr. Hart:

The above application for coverage under the General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of an existing 1,000 gallon septic tank and single trench leachfield, for a three bedroom home located in **Section 21, Township 50N, Range 62W**, 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 11, Part D** of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package.

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

This Notification of Coverage is issued in response to the submission and completion of the required septic system information for an as-built permit. The system generally complies with Wyoming Department of Environmental Quality/Water Quality Regulations governing Small Wastewater Systems.

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
Tim Lyons, Crook County Growth and Development
Jay Pixley, P.O. Box 590, Sundance, WY 82729



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 12-099

REFERENCE PERMIT NO. N/A

Sheridan Commercial Park – Sanitary Sewer System

This permit hereby authorizes the applicant:

Dan Roberts, P.E.
City of Sheridan
55 Grinnell Plaza
Sheridan, WY 82801

to construct, install, and/or modify the Sheridan Commercial Park Sanitary Sewer System, including construction of sewer gravity collection lines, force main, and lift station according to the procedures and conditions of the application number 12-099. The facility is located in the SE ¼ SE ¼, Section 35 and SW ¼, SW ¼, Section 36 of Township 56 North, Range 84 West; and NE ¼ NE ¼ Section 2 and NW ¼ NW ¼ Section 1 of Township 55 North, Range 84 West. The project site is further located east of Interstate 90 and north of US Highway 14, southeast of the City of Sheridan, WY. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2013.

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 permit conditions or other operational requirements. Compliance with all applicable 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.

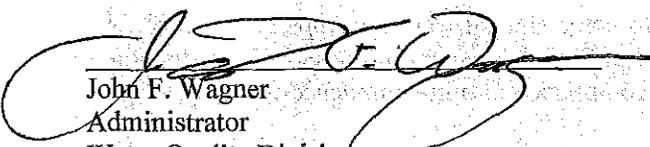
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

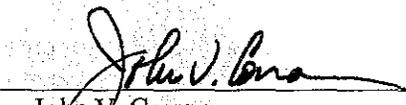
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization 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 4 The applicant will provide immediate oral or written notice to the Northeast District, Water Quality Division, 152 North Durbin, 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 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District, Water Quality Division, 152 North Durbin, 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.
- a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 4 Within thirty days of completion of construction of the authorized facility, the Engineer of Record will submit two (2) complete copies of the Operation and Maintenance Manuals to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY 82601.
- 4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

4-27-12
Date of Issuance

KLF/rm/12-0384

cc: Jeff M. Feck, P.E., Vista West Engineering, 1470 Sugarland Drive, Suite 3, Sheridan, WY 82801

STATEMENT OF BASIS

1. Permit Number: **12-099**
2. Application reviewed for compliance with the following applicable regulations :
Chapter 3 and Chapter 11 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?

NO. Chapter 11, Section 9(d)(i) requires that manholes spacing shall not exceed 400 feet. At one location, the spacing is approximately 424' to accommodate easier access for connecting in two separate service lines (Manhole SS107 – SS-401). The City of Sheridan will provide additional maintenance if needed and has approved this change.
4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.

N/A
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 is not required.
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 Karen L. Farley, P.E., and completed on April 27, 2012. 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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Matthew H. Mead, Governor

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

John Corra, Director

NOTIFICATION OF COVERAGE

April 26, 2012

Vaughn Bosch
TIC, The Industrial Company Wyoming, Inc.
1474 Willer Drive
Casper, WY 82604

RE: TIC – Lot 85 of Westgate Park III – 6" Fire Line
Application No. 12-100, Natrona County

Dear Mr. Bosch:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Water Supply Distribution Systems, consisting of approximately 575 feet of 6 inch PVC waterline for a fire sprinkler system for a proposed building addition located in the SW ¼, **Section 34, Township 34N, Range 80W**, Natrona 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 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, 2013**.

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
Lewis James, P.E., JKC Engineering, 5830 East 2nd Street, Casper, WY 82609

