WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 08-351
Reference Permit WYPDES No. WY0021024

Buffalo Wastewater Treatment Plant

This permit hereby authorizes the applicant:

City of Buffalo
46 North Main Street
Buffalo, Wyoming 82834

to construct, install or modify a 1.8 MGD (max month flow) wastewater treatment plant, including headworks building with submersible influent pumps, screening/compactor/washer equipment, and grit removal/dewatering equipment; operations building with RAS/WAS pumps, multi-stage centrifugal blowers, clarifiers, UV disinfection, offices, laboratory, shop, and maintenance garage; lined earthen aeration basins, lined earthen waste solids digester and storage basins with decant/lift station; and related work and appurtenances according to the procedures and conditions of the application number 08-351. The facility is located in Buffalo, in NE1/4 Section 36, Township 51 North, Range 82 West, in the County of Johnson, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2011.

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 4 The applicant will provide immediate oral or written notice to the DEQ/WQD Casper Field 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 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Casper Field 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 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

4 of 4 The applicant shall comply with the "Ambient standards for odors" established by the Wyoming Air Quality Standards and Regulations Chapter 2.

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

John V. Corra
Director
Department of Environmental Quality

6-5-09
Date of Issuance

KJF/rm/9-0467

STATEMENT OF BASIS

1. Permit Number: 08-351

2. Application reviewed for compliance with the following applicable regulations:
   Chapters 3 and 11.

3. Does the permit comply with all applicable regulations identified above?
   The permit approval is based upon a deviation from applicable regulations in accordance with Section 5 of Chapter 11.

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.
   The regulations do not specifically cover ultraviolet light disinfection.

   b. Briefly state the basis for the deviation.
   Ultraviolet light disinfection of wastewater effluent has been successfully used on several projects in Wyoming and on many throughout the country and has become a widely accepted treatment technology. The proposed design parameters and application are similar to those of other successful systems and meet the recommendations of technical literature.

5. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
   The proposed treatment processes will be in watertight concrete basins and lined earthen basins, so groundwater impact is not expected.

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 Program Engineering Consultant, and completed on June 3, 2009. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 08-355

Town of Marbleton's Septage Receiving Station

This permit hereby authorizes the applicant:

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

to construct a septage receiving station consisting of two grinder pumps, 8 and 2 inch piping, 8,600 gallon holding tank, and proper fencing, according to the procedures and conditions of the application number **08-355**. The facility is located at the town of Marbleton's wastewater treatment facility, within Section 8, T18N, R112W in the county of Sublette, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by July 17, 2010.

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

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

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

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

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

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

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

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

1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144,FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 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

7/20/08
Date of Issuance

MDB/rm/8-0552

STATEMENT OF BASIS

1. Permit Number: 08-355

2. Application reviewed for compliance with the following regulations:

   Chapter 11, Part B of the Wyoming Water Quality Rules and Regulations.

3. Does the permit comply with all applicable regulations identified above?

   Yes.

4. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.

   Sewerage systems are exempted from review by Chapter 3, Section 17.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., Southwest District Engineer, mbaron@state.wy.us, and completed on July 17, 2008. 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: Jason Broome, P.E., Forsgren Assoc., 370 E. 500 South, Suite 200, Salt lake City, UT 84111

Department of Environmental Quality

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

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

June 19, 2008

Peter C. Maskell
P.O. Box 574
Saratoga, Wyoming 82331

RE: Maskell Residential Septic System, Application No. **08-357**
Location: NW¼ NW¼, Section 5, T17N, R83W, Carbon County

Dear Mr. Maskell:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **4 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 conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

1. 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.

2. Polyethylene Septic Tank Installation Requirements - To ensure structural integrity, the **manufacturer's instructions** regarding bedding the tank and filling the tank with water during burial **must be followed during installation.** Additionally, immediately after clean-outs, the tank must be refilled with water according to the manufacturer's instructions to maintain structural integrity.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 19, 2010. Please reference Application Number **08-357** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald, P.E.
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0492

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Carbon County Planning Director, Lou Kline, 215 W. Buffalo Street, #304, P.O. Box 487, Rawlins, Wyoming 82301

Department of Environmental Quality

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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

June 20, 2008

Scott Rakness
P.O. Box 483
Encampment, Wyoming 82325

RE: Rakness Residential Septic System, Application No. **08-359**
Location: SW¼, Section 2, T14N, R84W, Carbon County

Dear Mr. Rakness:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **3 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:

Inspection Required - The installation shall be inspected by the design engineer, Mr. Kent Smith, before the final cover is placed over the construction. Mr. Smith must approve the construction and give the "OK" to proceed with covering the system. Mr. Smith's pre-final cover inspection and approval shall be indicated by his signature on the "Certification of Completion" form included with this permit.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 20, 2010. Please reference Application Number **08-359** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald, P.E.
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0494

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Kent Smith, P.O. Box 684, Saratoga, Wyoming 82331
Carbon County Planning Director, Lou Kline, 215 W. Buffalo Street, #304, P.O. Box 487, Rawlins, Wyoming 82301

Barb Barnes

Department of Environmental Quality

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

Dave Freudenthal, Governor

John Corra, Director

December 1, 2008

Williams Production RMT Company
Attn: Mr. Eric Sandberg
300 N. Works Ave.
Gillette, WY 82717

Re: Termination of Chapter 3 Permit 08-360 Kingsbury V POD

Dear Mr. Sandberg:

The Wyoming Department of Environmental Quality, Water Quality Division (WQD), has reviewed your request to terminate Permit to Construct #08-360, associated with Reservoir 14-18-4677 in the Kingsbury V POD.

Reservoir 14-18-4677 will not be constructed. A Permit to Construct is therefore no longer authorized for the monitoring wells: MW 14-18-4677, MW14-18C1, and MW 14-18C2. These wells shall be plugged and abandoned pursuant to Chapter 11, Section 7 Wyoming codes annotated within 60 days of receipt of this letter and a plugging record submitted to the WQD within 15 days after abandonment.

If you have any questions regarding this letter or the conditions in the attached permit, please contact me or other Groundwater Section staff in the Sheridan office at 307-673-9337.

Sincerely,

Don Fischer

Don Fischer
North District Geologic Supervisor
Groundwater Section

CC: Kevin Frederick, State Groundwater Section Manager, Cheyenne
Jason Thomas, WYPDES Program, Cheyenne
Ben Schiffer, WWC Engineering, Sheridan
File
Chronological file
Archive

1866 SOUTH SHERIDAN AVENUE • SHERIDAN, WY 82801
AIR, LAND AND WATER DIVISIONS
(307) 673-9337 • FAX (307) 672-2213

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

PERMIT NO. **08-360**

Kingsbury V POD

This permit hereby authorizes the applicant:

Williams Production RMT Company
Attn.: Mr. Eric Sandberg
300 N. Works Ave.
Gillette, WY 82717

to have installed a compliance monitoring well according to the procedures and conditions of the application number **08-360**. The facilities are proximal to coalbed methane produced water impoundments located in Township 46N, Range 77W, Section 18 in the county of Johnson, 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 applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, 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 applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, 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:
Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at down-gradient well: MW14-18C1
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by October 15, 2008
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

Impoundment: 14-18-4677

Parameter	MW18-18C1 Background Value (mg/L) (05/25/2007)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005(ND)	0.2
Selenium	0.009	0.05
Sulfate	924	3000
Total Dissolved Solids	2090	5000
pH	7.8	6.5 – 8.5 (s.u)

If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ 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 monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (http://deq.state.wy.us/wqd/groundwater/pollution.asp). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the 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

6-12-08
Date of Issuance

UMW/rm/8-0468

GROUNDWATER PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1866 South Sheridan Avenue
Sheridan, WY 82801
Phone: 307-672-6457

PERMIT TYPE: CBM: Groundwater Compliance Monitoring Program

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 08-360

SITE (POD) NAME: Kingsbury V

APPLICANT: Williams Production RMT Company
Attn.: Mr. Eric Sandberg
300 N. Works Ave.
Gillette, WY 82717

CONSULTANT: WWC Engineering
Attn.: Ben Schiffer
1849 Terra Ave.
Sheridan, WY 82801

LOCATION: Drainage: Unnamed tributary to the Powder River
County : Johnson
Township 46 North; Range 77 West

WYPDES No: Discharge Permit: Application Pending

DATE ON REPORT: April 23, 2007

REVIEWING OFFICIAL: Ursula Williams, North District Geologic Analyst

DATE OF THIS REVIEW: June 9, 2008

ACTION: Compliance Monitoring Plan authorized for Kingsbury V pursuant to conditions on permit # 08-360.

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

1.1 Site Description.

Watershed Name: Unnamed tributary to the Powder River

Groundwater Classification:

Class 1 (domestic) _____
Class 2 (agricultural) _____
Class 3 (livestock) 1

Basis for Classification: Laboratory analysis of groundwater indicates ambient water quality meets Water Quality Rules and Regulations Chapter 8 Class III standards and exceeds both Class I and Class II standards for Sulfate and TDS (Table 1- Chapter 8).

Table 1. Basis for Ground Water Classification

Impoundment Name	Sulfate (mg/l)	TDS (mg/l)	Class of Use
MW 14-18-4677	924	2090	III

The groundwater analysis presented above is from MW 14-18-4677, which is not the most down-gradient well. The compliance monitoring point for this site will be MW14-18C1 which will be sampled prior to beginning discharge.

Description of Hydrogeology:

First groundwater was encountered in a sandy siltstone between 4094 and 4084 feet amsl. Above this water bearing zone is approximately 20 feet of unconsolidated material along with another 65 feet of consolidated material of varied lithology, including sandstone, siltstone, claystone and coal. The unconsolidated material is not described as alluvium by the geologist and only the bottom one foot is saturated. The unconsolidated material will not be monitored.

Table 2. Names of Impoundments covered under Permit 08-360

Impoundment Name	Capacity (acre/ft)	Qtr Qtr	Section	Town.	Range	Down gradient Monitoring Well
14-18-4677	12.9	SWSW	18	46N	77W	MW 14-18C1

No other domestic, agricultural or livestock wells are noted in the immediate area that will be impacted. No seeps or springs are noted in the immediate area.

2.0 MONITORING AND REPORTING REQUIREMENTS

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at down-gradient well: MW14-18C1
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by October 15, 2008
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

14-18-4677

Parameter	MW18-18C1 Background Value (mg/L) (05/25/2007)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005(ND)	0.2
Selenium	0.009	0.05
Sulfate	924	3000
Total Dissolved Solids	2090	5000
pH	7.8	6.5 – 8.5 (s.u)

If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ 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 monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (http://deq.state.wy.us/wqd/groundwater/pollution.asp). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

END OF REVIEW

UMW/rm/8-0468

Department of Environmental Quality

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

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 28, 2008

Cherrywood LLC
Liisa Anselmi-Dalton
P.O. Box 1598
Rock Springs, WY 82902

RE: Rock Springs - Holiday Inn Express - Water and Sewer Main Extensions - Permit Number 08-364, SE ¼, Section 34, T19N, R105W, Sweetwater County

Dear Ms.Anselmi-Dalton:

The above application for coverage under General Permits to Construct the extension of a public water supply distribution system and the extension of a sewage collection system consisting of about 60 linear feet (LF) of 12-inch, 800 LF of 8-inch and 40 LF of 6-inch PVC water main and about 121 LF of 6-inch PVC sewer main serve an 80 room hotel 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 permits.

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

Sincerely,

Mark Baron

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

xc: IPS, Cheyenne
Randy J. Hansen, P.E., JFC Engineering & Surveyors, 1515 Ninth Street, Rock Springs, WY 82901

encl: General Permit for a Public Water Supply Distribution System,
General Permit for a Sewage Collection System

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 332-3183

Dave Freudenthal, Governor

Department of Environmental Quality

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

John Corra, Director

NOTIFICATION OF COVERAGE

August 4, 2008

Matt Harber
Haymaker Development, Inc.
P.O. Box 1902
Pinedale, WY 82941

RE: Bloomfield Phase I Water and Sewer - Permit Number 08-365, SE and NE1/4 Section 32 T34N, R109W, Sublette County

Dear Mr. Harber:

The above application for coverage under General Permits to Construct of water and sewer main modifications for the new installation of 5775 lineal feet 12-inch D.I.P, 975 lineal feet 10-inch D.I.P with one Barber Creek Crossing for the water and sewer mains consisting of 5800 lineal feet 12-inch and 800 feet 10-inch, 415 feet 8-inch each SDR35 PVC and appurtances to serve residential and commercial businesses located in Pinedale in accordance with Chapter 3, Section 7, Chapter 11, Section 9 and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

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

Sincerely,

Perry Roberson
Consulting Engineer
Water Quality Division

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

xc: IPS, Cheyenne
Mark E. Eatinger, Rio Verde Engineering, P.O. Box 642, Pinedale, WY 82941

encl: General Permit for a Sewage Collection System
General Permit for a Public Water Supply Distribution System

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 08-366

Encana Jonah Field Workforce Facility - Sewage Treatment and Reuse System

This permit hereby authorizes the applicant:

Jeff Johnson
Encana Oil & Gas (USA) Inc.
370 17th Street, Suite 1700
Denver, Colorado 80202

to construct a sewage treatment and reuse system consisting of two lift stations, four 40,000 gallon buried fiberglass tank, eight 5000 gpd treatment units, chlorination unit , two 75,000 gallon treated wastewater above ground steel storage tanks to serve a 350 person workforce facility, according to the procedures and conditions of the application number **08-366.** The facility is located about 33 miles southeast of the Town of Pinedale in the Jonah Gas Field, within Section 8 , Section 28, T37N,R108W in the county of Sublette, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by July 7, 2010.

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

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

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

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

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

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

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

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

1 of 8 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144,FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 8 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

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 8 The treated wastewater from the workforce facilities' domestic sewage shall only be reused for the drilling of gas wells within the Jonah Field in Sublette County. At no time is the treated wastewater to be discharge into a surface water or ground water of the state.

4 of 8 Encana will continually maintain a written contact with a third party compliance consultant. The compliance consultant must be a Professional Engineering Licensed with the State of Wyoming. The compliance consultant must have an office within a three hour drive of the mancamp. A copy of the contact and all future modifications must be submitted to the Wyoming Department of Environmental Quality.

5 of 8 The third party compliance consultant shall submit a monthly report of the treated wastewater monitoring results to the Wyoming Department of Environmental Quality for three months and then yearly on the anniversary date of the permit. Copies of records shall be maintained at the office of the third party consultant.

6 of 8 The required treated wastewater monitoring and sampling frequency is listed in the attached Monitoring Schedule on page 4 of 4 of this permit.

7 of 8 If the treated wastewater is found to be in non-compliance with either Fecal Coliform Bacteria or Chlorine Residual all reuse must be immediately stopped until compliance is obtain. Non-compliance results must be immediately reported to the Wyoming Department of Environmental Quality.

8 of 8 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

John V. Corra
Director
Department of Environmental Quality

7/16/08
Date of Issuance
MDB/rm/8-0518

STATEMENT OF BASIS

1. Permit Number: 08-366

2. Application reviewed for compliance with the following regulations:

   Chapters 3 and 11 of the Wyoming Water Quality Rules and Regulations.

3. Does the permit comply with all applicable regulations identified above?

   Yes.

4. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.

   Sewerage systems are exempted from review by Chapter 3, Section 17.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., Southwest District Engineer, mbaron@state.wy.us, and completed on July 7, 2008. 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."

xc: Michelle L.D. Sell, P.E., Trihydro Corporation, 1252 Commerce Drive, Laramie, WY 82070

Encana Jonah Field Workforce Wastewater Treatment Facility - Monitoring Schedule - Treated Wastewater Reuse Monitoring and Reporting Requirements WDEQ/WQD Permit Number 08-366, Sublette County. July 7, 2008.				
Parameter	EPA[1] Approved Method	Regulatory Limit	Point of Compliance	Sampling Frequency
Biochemical Oxygen Demand (BOD)	SM5210B	30 mg/l	At the sample port before the chlorination system.	Once weekly.
Total Suspended Solids (TSS)	SM2540D	30 mg/l	At the sample port before the chlorination system.	Once weekly.
Fecal Coli form	SM9222D	0 (zero) CFU/100	At the point of discharge into any and all tanker	Once weekly. Two samples per

Encana Jonah Field Workforce Wastewater Treatment Facility - Monitoring Schedule - Treated Wastewater Reuse Monitoring and Reporting Requirements WDEQ/WQD Permit Number 08-366, Sublette County. July 7, 2008.				
Parameter	EPA[1] Approved Method	Regulatory Limit	Point of Compliance	Sampling Frequency
Bacteria		mg/l	trucks before reuse.	sample event for a total of two samples per week.
Chlorine Dose	EPA 330.5	25 to 42 mg/l	After the chlorination system but before the both of the 75,000 gallon treated wastewater storage tanks.	Once weekly.
Chlorine Residual	EPA 330.5	4 mg/l (lower limit)	At the point of discharge into any and all tanker trucks before reuse.	Daily with a hand held chlorine residual meter.
Chlorine Residual	EPA 330.5	1 mg/l (lower limit)	At the point of use before the wastewater is off loaded from all tanker trucks.	For each tanker truck of wastewater until 100,000 gallons has been off loaded.

MDB/rm/8-0518

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 08-367

Thermopolis - Sanitary Sewer Collection System Renovation - Phase 1

This permit hereby authorizes the applicant:

William Malloy, Mayor
Town of Thermopolis
P.O. Box 603
Thermopolis, WY 82443

to replacing and/or lining 11,600 LF of existing 6" through 12" VCP and PVC with 8" SDR-35 PVC in 27 blocks of the Town of Thermopolis; according to the procedures and conditions of the application number 08-367. The mains purposes of this project are to improve sewage flows and reduce contamination of the soil in these areas due to failure of the VCT pipe and the invasion of roots. The facility is within NW ¼ SECT.1 & NE ¼ SECT. 2 T.42N, R.95W. And SE ¼ SECT.35 & SW ¼ SECT.36 T.43N, R.95W in the county of Hot Spring, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by October 1, 2010.

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

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

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

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

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

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

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

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

1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Northwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144,FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

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

9/9/08
Date of Issuance

AA/rm/8-0674

STATEMENT OF BASIS

1. Permit Number: 08-367

2. Application reviewed for compliance with the following regulations:

   Chapters 3 and 11 of the Wyoming Water Quality Rules and Regulations.

3. Does the permit comply with all applicable regulations identified above?

   No.
   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. The construction of the proposed pipe will be installed at a 0.002 ft/ft slope. The construction of the proposed sewer line will satisfy Policy 13.9.13 by the following provisions: 1) Pipe constructed of ASTM D3034 SDR 35 PVC pipe, 2) the sewer grade will be established by a laser, 3) The pipe will be bedded with Type 1 bedding material using Type A Trench Backfill methods or cement treated fill, 4) the sewer line will be constructed under full time inspection and 5) the Town has sent a letter stating their acceptance of the design.

4. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.

   No.

5. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.

   Public water systems are exempted from review by Chapter 3, Section 17

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Atheer Alanbagi, Civil Engineer, and completed on August 20, 2008. 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."

Xc: Heath J. Overfield, P.E., Engineering Associates, 429 Broadway, Thermopolis, WY 82443

Dave Freudenthal, Governor

Department of Environmental Quality

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

John Corra, Director

NOTIFICATION OF COVERAGE

July 14, 2008

Jay Varley
Arts District Development LLC
P.O. Box 2607
Jackson, WY 83001

RE: Glenwood + Simpson Mixed Use Building, Phase I of Millward + Simpson PMUD, Permit Number: 08-368, Lots 11 & 12, Block 2, 2nd Wort Addition, Jackson, WY, Teton County

Dear Mr. Varley:

This project involves providing water service with a new 6-inch main and sanitary sewer service with a new 6-inch main to two downtown lots named above. The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the 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.

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

Sincerely,

James Brough

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

xc: IPS, Cheyenne
Nicholas Fiore, P.E., Jorgensen Assoc., PC, P.O. Box 9550, Jackson, WY 83002
Shawn O'Malley, Town of Jackson, P.O. Box 1687, Jackson, WY 83001

encl: General Permits an Public Water Supply and Existing Sewage Collection Systems

Department of Environmental Quality

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

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

August 13, 2008

Questar
Attn: Mr. Mel Owen, Vice President
180 East 100 South
Salt Lake City, Utah 84111

RE: Questar, Lot 15 & 16 Willie Subdivision – Commercial Septic System, Application No. **08-369**

Location: SE¼, Section 8, T12N, R91W, Carbon County

Dear Mr. Owen:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for an **office building** 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 conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

1. Placement Method of the Chamber Units in the Leachfield Bed is RESTRICTED - The chamber units **shall be placed directly onto undisturbed soil.** Contrary to as is indicated on sheet 2 of the plan drawings, the soil at the bottom of the bed excavation **shall not be scarified 12" below the bottom level of the bed.**

2. 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.

3. Polyethylene Septic Tank Installation Requirements - To ensure structural integrity, the **manufacturer's instructions** regarding bedding the tank and filling the tank with water during burial **must be followed during installation.** Additionally, immediately after clean-outs, the tank must be refilled with water according to the manufacturer's instructions to maintain structural integrity.

The approval granted under this Notification Of Coverage and the General Permit shall expire on August 12, 2008. Please reference Application Number **08-369** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0603

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Amy M. Allen, JFC Engineers & Surveyors, 1515 Ninth Street, Rock Springs, Wyoming 82901
Carbon County Acting Planning Director, Kristy Rowan, 215 W. Buffalo Street, #304, P.O. Box 487, Rawlins, Wyoming 82301

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Questar, Lot 15 & 16 Willie Subdivision – Commercial Septic System

LOCATION: SE¼, Section 8, T12N, R91W, **Carbon County**

ENGINEER: Amy M. Allen
JFC Engineers & Surveyors
1515 Ninth Street
Rock Springs, Wyoming 82901
Ph: (307) 362-7519

APPLICANT: Questar
180 East 100 South
Salt Lake City, Utah 84111
Ph: (801) 324-2841

WATER QUALITY DIVISION REFERENCE NUMBER: **08-369**

REVIEWING ENGINEER: Ronald L. Ewald
Phone: (307) 777-6183

DATE OF REVIEW: July 28, 2008

Professional Engineer (Civil) RONALD L. EWALD 6279 WYOMING
Ronald L. Ewald
07-28-2008
Date

ACTION: **NOT AUTHORIZED FOR CONSTRUCTION**. In accordance with Section 12 (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 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. Professional Engineer Seal and Signature Required - A Wyoming Licensed Professional Engineer(PE) is required to seal and sign the plans as well as the Engineering Design Report.

2. <u>What Model of *Infiltrator*™ Chamber is to be Used?</u> - Throughout the plans and the engineering design report(EDR) the Original Standard Infiltrator chamber unit which is 34" wide by 12" high by 6ft 3" long and the newer Infiltrator Quick4 chamber unit which is 34" wide by 12" high by 4ft 5" long have been used interchangeably in the calculations and the plan drawings. For example, the equivalent area of the original standard chamber in a trench is 35.4 sq. ft. per unit, whereas the equivalent area of the Quick4 unit in a trench is only 22.5 sq. ft. per unit. The 35.4 value was used in the calculations, but on the plans a Quick4 unit is shown with it's dimensions. Using the original units, 32 units would be needed as calculated. However, using the Quick4 units, a minimum of 46 units would be needed.

   Please choose which of these units you intend to use (and can obtain), and correct all of the plan drawings and the EDR to be consistent before you seal and sign them and send them back to DEQ.

Department of Environmental Quality

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

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

June 24, 2008

Mayor Leroy Schafer
City of Torrington
2017 East "A" Street
Torrington, WY 82240

RE: CITY OF TORRINGTON-FIRE HALL SEWER IMPROVEMENTS
Application No. **08-370**, GOSHEN County

Dear Mayor Schafer:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Sewage Collection Systems described as replacing 6" VCP with 8" PVC sewer line, SW1/4 Section 10 T24N R61W; Goshen County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by June 24, 2010.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **08-370** in any future correspondence.

If you have any questions, please contact me at 307-777-7075.

Sincerely,

Rich Cripe

Rich Cripe, PE
Southeast District Engineer
Water Quality Division

RC/bb/8-0501

cc: IPS, Cheyenne

Tim Eisenhauer, Baker & Associates, 1401 East M St., Torrington Wy 82240

Department of Environmental Quality

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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 1, 2008

Dan Cantine
P.O. Box 774
Mills, Wyoming 82644

RE: Dan R. & Lana J. Cantine Residential Septic System, Application No. **08-372**
Location: E½ NE¼, Section 10, Township 28N, Range 68W, Platte County

Dear Mr. and Mrs. Cantine:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **2 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 July 1, 2010. Please reference Application Number **08-372** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald, P.E.
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0510

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Darin Geringer, Box 98, Glendo, WY 82213
Platte County Planner, Marlin Johnson, P.O. Box 728, Wheatland, Wyoming 82201

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

PERMIT NO. **08-382**

Kenai Project, Windmill Draw #1

This permit hereby authorizes the applicant:

Comet Energy Services, IIC
Attn.: Mr. Kent Fink
919 N. Main Street
Buffalo, WY 82834

to have installed one compliance monitoring well according to the procedures and conditions of the application number **08-382**. The facility is proximal to coalbed methane produced water impoundment located in Township 54N, Range 75W, Section 28 in the county of Johnson, 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 applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, 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 applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, 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:
Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at down-gradient well: Windmill Draw #1 MW-02
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by October 15, 2008
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

Impoundment: Windmill Draw #1

Parameter	Windmill Draw #1 MW-02 Background Value (mg/L) (07/27/2007)	Class III Water Quality Standards (mg/L)
Arsenic	0.004	0.2
Selenium	ND (0.005)	0.05
Sulfate	2430	3000
Total Dissolved Solids (TDS)	4440	5000
pH	7.16	6.5 – 8.5 (s.u)

If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ 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 monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (http://deq.state.wy.us/wqd/groundwater/pollution.asp). These data shall be submitted electronically on the due dates established above to the following department address: DEQ-CBMGroundwater@WYO.GOV. In addition, the accompanying analytical laboratory reports and field documentation must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

 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

7-11-08
Date of Issuance

UMW/rm/8-0530

GROUNDWATER PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1866 South Sheridan Avenue
Sheridan, WY 82801
Phone: 307-672-6457

PERMIT TYPE: CBM: Groundwater Compliance Monitoring Program

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 08-382

SITE (POD) NAME: Kenai Project

APPLICANT: Comet Energy Services, LLC
Attn.: Mr. Kent Fink
919 N. Main St.
Buffalo, Wyoming 82834

CONSULTANT: Pilch Engineering
Attn.: Tom Pilch
41 E. Burkitt St.
Sheridan, Wyoming 82801

LOCATION: Drainage: Unnamed tributary to North Windmill Draw, tributary to Middle Prong Wild Horse Creek, tributary to Powder River
County: Sheridan
Township 57 North; Range 79 West

WYPDES No: Discharge Permit: WY0054330

DATE ON REPORT: January 12, 2008

REVIEWING OFFICIAL: Ursula Williams, North District Geologic Analyst

DATE OF THIS REVIEW: June 18, 2008

ACTION: Compliance Monitoring Plan authorized for Kenai Project, Windmill Draw #1 pursuant to conditions on permit # 08-382.

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

1.1 Site Description.

Watershed Name: Unnamed tributary to North Windmill Draw, tributary to Middle Prong Wild Horse Creek, tributary to Powder River.

Groundwater Classification:

Class 1 (domestic) _____
Class 2 (agricultural) _____
Class 3 (livestock) 1

Basis for Classification: Laboratory analysis of groundwater indicates ambient water quality meets Water Quality Rules and Regulations Chapter 8 Class III standards and exceeds both Class I and Class II standards for Sulfate and TDS (Table 1- Chapter 8).

Table 1. Basis for Ground Water Classification

Impoundment Name	Monitoring Well	Sulfate (mg/l)	TDS (mg/l)
Windmill Draw #1	Windmill #1 MW-02	2430	4440
Windmill Draw #1	Windmill #1 MW-01	1710	1530
Windmill Draw #1	MW14-21	489	1190

Description of Hydrogeology:
Information from three monitor wells was used to describe the hydrogeology of this site. First groundwater was encountered in sandstones at depths ranging from 60 to 160 feet below ground surface (bgs). The elevation of the top of the screened interval ranged from 3958 to 3907 over a distance of approximately 500 feet. Based on the elevations of the screened interval, this aquifer appears to dip to the ESE at about 4 degrees.

Windmill #1 MW-01 was screened in brown and red-brown sandstones, described as fine-grained and poorly cemented, in the interval from 3994 to 3914 ft amsl. The aquifer at this location appears to be unconfined. Water quality results from this well indicate relatively good class III water as indicated in Table 1.

MW14-21 is screened in oxidized and friable silty sandstone in the interval from 3954 to 3897 ft amsl (detailed lithologic description was obtained by the reviewer from original drill logs for this hole submitted in association with the Comet's Dube Subsurface Drip Irrigation Permit Application, attached). The aquifer at this location also appears to be unconfined and is also relatively good class III water (Table 1).

The third well,Wildmill #1 MW-02 was completed in a dark brown fine-grained sandstone in the interval from 3907 to 3884 ft amsl. The aquifer is confined at this location with some 30 feet of head above the top of the aquifer. The water quality results from this well indicate relatively poor quality class III water (Table 1).

The professional geologist consulting on this project states that all three wells are completed in the same aquifer despite their very different completion elevations and their very different water quality.

The reviewer looked more closely at the water quality from these wells using Trilinear, Stiff and Scholler diagrams (attached). These diagrams do not rule out the possibility that the groundwater at these three locations could be related.

The groundwater flow direction was determined from a three-point problem using water levels from these three wells measured November 13, 2007. Groundwater flows southward with a gradient of about 1.8%. Windmill Draw #1 MW-02 is the down-gradient monitor well.

Table 2. Names of Impoundments covered under Permit 08-382

Impoundment Name	Capacity (acre/ft)	Qtr Qtr	Section	Town.	Range	Down gradient Monitoring Well
Windmill #1	22.66	NWNW	28	54N	75W	Windmill Draw #1 MW-02

No other domestic, agricultural or livestock wells are noted in the immediate area that will be impacted. No seeps or springs are noted in the immediate area.

2.0 MONITORING AND REPORTING REQUIREMENTS

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at down-gradient well: Windmill Draw #1 MW-02
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by October 15, 2008
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

Impoundment: Windmill Draw #1

Parameter	Wildmill Draw #1 MW-02 Background Value (mg/L) (07/27/2007)	Class III Water Quality Standards (mg/L)
Arsenic	0.004	0.2
Selenium	ND (0.005)	0.05
Sulfate	2430	3000
Total Dissolved Solids (TDS)	4440	5000
pH	7.16	6.5 – 8.5 (s.u)

If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ 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 monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (http://deq.state.wy.us/wqd/groundwater/pollution.asp). These data shall be submitted electronically on the due dates established above to the following department address: cbmgroundwater@state.wy.us. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

END OF REVIEW

UMW/rm/8-0530

Dave Freudenthal, Governor

Department of Environmental Quality

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

John Corra, Director

NOTIFICATION OF COVERAGE

July 14, 2008

Phillip Julliard, Mayor
Town of Basin
P. O. Box 599, 209 South 4th Street
Basin, WY 82410

RE: Antelope Street Sewer for the Town of Basin, Permit Number: 08-386, N ½ NW ¼ of Section 28, T.51 N., R. 93 W., Big Horn County, Wyoming

Dear Mr. Julliard:

This project involves the replacement of Antelope street existing 6" sewer and 4" service with approximately 1350FL PVC SDR35 8" sewer main in Basin, Wyoming. This application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the 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.

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

Sincerely,

Atheer Alanbagi
Reviewing Engineer
Water Quality Division

James Brough

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

xc: Sherman B. Allred, P. E., Donnell & Allred, Inc., 908 Big Horn Ave, Worland, WY 82401
IPS, Cheyenne

encl: General Permits For a Public Water Supply Distribution System and Sewage Collection System

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO.08-376

Moorcroft 2008 Well No. 9 and Well No. 10
Water Improvement Project

This permit hereby authorizes the applicant:

Town of Moorcroft
P.O. Box 401
Moorcroft, Wyoming 82721

to drill, construct, develop, test, and plumb the Moorcroft 2008 Well No. 9 and Well No. 10 Wells, according to the procedures and conditions of the application number 08-376. The project is located in southwest quarter of the southeast quarter of Section 26, Township 50 North, Range 68 West, in the county of Campbell, in the State of Wyoming. The facility is located approximately 37 miles southwest of Gillette, Wyoming. All construction, installation, or modification allowed by this permit shall be completed within one year of issuance.

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 land application 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 land application is located 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 operated 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 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 5 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 certificate of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

a. Dates 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.

e. Submit the following information with the Certificate of Completion:

1) As-built construction documents; and
2) All logs including driller/geologist logs, geophysical logs, and bond logs; and
3) A plumbness/alignment test; and
4) An aquifer test that meets the requirements of DEQ regulations of a constant rate (minimum 1.5 x design rate) for 24 hours, with drawdown and recovery records and aquifer/hydraulic properties; and
5) A copy of the water quality analytical testing for the required constituents and disinfection information; and
6) Plans and specifications for equipping the well (including pump specifications and curves); and
7) Any other applicable information/documentation.

3 of 5 Disinfection, in accordance with Chapter 12, Section 9(b)(A)(II), Wyoming Water Quality Rules and Regulations, shall be performed.

4 of 5 The applicant will perform yield and drawdown tests in accordance with Chapter 12, Section 9(b)(ii). Results of these tests are to be provided with the Certificated of Completion.

 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

11/19/08
Date of Issuance

JDL/bb/8-0919

cc: WDEQ Casper Field Office

STATEMENT OF BASIS

1. Permit Number: 08-376

2. Application reviewed for compliance with the following applicable regulations :

   a. Chapter 3, 11, and 12 Wyoming Water Quality Rules and Regulations

3. Does the permit comply with all applicable regulations identified above?

   Yes

4. Facility includes components not specifically covered or differing from applicable regulations and approval is based on deviation in accordance with Section 5.

   Not applicable.

5. Documentation of Statement of Basis.

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

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Dennis Lamb, and completed on September 10, 2008. 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."

JDL/bb/8-0919

Dave Freudenthal, Governor

Department of Environmental Quality

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

John Corra, Director

NOTIFICATION OF COVERAGE

July 22, 2008

Fred E. Hofer
P.O. Box 220
Fort Bridger, WY 82933

RE: The Meadows at Fort Bridger Phase 1 Water & Sewer Project – Permit Number 08-387, Section 34, T16N, R115W, Uinta County

Dear Mr. Hofer:

The above application for coverage under General Permit to Construct a water supply system serving The Meadows at Fort Bridger Subdivision has been reviewed and is hereby approved with the following precaution.

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 permits.

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

Sincerely,

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

Steve Warner
Reviewer

xc: IPS, Cheyenne
Mark Davidson, Sunrise Engineering, Inc, 12227 S. Business Park Dr., Ste. 220, Draper, UT 84020

Encl: General permit for water supply system.

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 332-3183

The State
of Wyoming

Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

NOTIFICATION OF COVERAGE

June 23, 2008

Bill Courtney
EMIT Water Discharge Technology
P.O. Box 6795
Sheridan, WY 82801

RE: Oil and Grease Removal Pilot Project, Permit # 08-391

Dear Mr. Courtney:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Pilot Project in accordance with Section 5, Chapter 11, 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 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. This permit to construct is valid for 90 days from the date of this letter.

The following items need to be submitted to WDEQ/WQD CBM Group:

a. Date that water treatment was initiated;

b. Certification the pilot plant was constructed in accordance with the terms and conditions of the permit; or

   Certification the pilot plant was constructed with changes or modifications.

c. A monthly report to include operational and monitoring information, treatment/discharge volumes, any problems with the system and what has been done to correct them, or a notification that the plant has not been operating;

d. A final report detailing operation, treatment effectiveness, treatment volumes and other pertinent information related to the pilot project;

d. Immediate notification to WDEQ/CBM Group of any violations, exceedences, upsets, or incidents relating to the facility and its operation.

Please notify WDEQ at least one week prior to treatment start up. If you have any questions, please contact Kim Medina or Dennis Lamb at 152 North Durbin, Casper, WY, 82601, (307) 473-3465. Thank you.

Sincerely,

Kim J. Medina
Geological Project Analyst
DEQ/WQD

Enclosure: General Permit for Pilot Plants
Certificate of Completion

cc: IPS Cheyenne
WDEQ File

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. **08-393**

Columbian TecTank Aquus System Water Treatment Facility
for CBM Produced Water

This permit hereby authorizes the applicant:

Columbian TecTank, Inc.
5400 Kansas Avenue
Kansas City, Kansas 66106

to construct, install or modify, and operate a Columbian TecTank Aquus System CBM Water Treatment Facility according to the procedures and conditions of the application number **08-393**. The facility is located in the northwest quarter of the northeast quarter of Section 34, Township 53, Township 77, Johnson County, in the State of Wyoming. The facility is located approximately 8.5 miles south-southeast of Arvada, Wyoming. This permit shall be effective until August 1, 2010.

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 9 The applicant will provide immediate oral or written notice to the CBM / Oil and Gas Group, Water Quality Division, 152 North Durbin Street, Suite 100, Casper, WY 82601, Phone 307-473-3465, FAX 307-473-3458 in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 9 The applicant will provide written notice to the CBM / Oil and Gas Group, Water Quality Division providing the location and other applicable information 60 days prior to constructing/operating a facility.

3 of 9 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the CBM / Oil and Gas Group, Water Quality Division 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.

4 of 9 This process is only approved for the treatment of CBM produced water from the Marathon/Pennaco Cates Draw Phase 2, Candida #1 Reservoir. Until authorized by WDEQ, no discharges of water from the Candida #1 Reservoir will be permitted. Direct discharge of treated water to Cates Draw from the facility is not authorized unless the facility is equipped with an automatic shut-off connected to in-line sensors to ensure that "off-spec" water is not discharged to waters of the State of Wyoming.

5 of 9 The applicant shall provide the CBM / Oil and Gas Group, Water Quality Division with information regarding disposal of any waste generated by the process at a DEQ approved facility. This information shall be included in a monthly report and will include quantity, disposal facility, and date. Prior to disposal of any waste, it is the applicant's responsibility to determine waste characteristics and proper disposal method.

6 of 9 Sampling will be conducted as set out in the Operation and Maintenance Manual, incorporated as Attachment "A" to this permit. However, no reduction in the frequency of testing will be permitted if any parameters exceed limits specified in WYPDES Permit WY0046485.

7 of 9 An operation and monitoring report will be submitted to the CBM / Oil and Gas Group, Water Quality Division **monthly** for the first year of operation. If after one year, the facility is operating within stated parameters, operation and monitoring reports may be submitted quarterly. The operation and

monitoring reports will include, at a minimum, influent water quality, amount of water treated at each location, other operational information, waste disposal and effluent water quality.

8 of 9 Following completion of treatment, the treatment plant and all associated structures will be reclaimed to the satisfaction of the land owner.

9 of 9 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

8-21-08
Date of Issuance

JDL/KJM/rm/8-0631
cc: WDEQ Casper Field Office

STATEMENT OF BASIS

1. Permit Number: **08-393**

2. Application reviewed for compliance with the following applicable regulations :

   a. Chapter 11.

   b. The STATEWIDE permit is based on completion of the Pilot Project permits# 05-095, 06-039, 06-040, 06-041, 06-042, and 06-858

3. Does the permit comply with all applicable regulations identified above?

   Yes

Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.

   a. Not required.

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 III, Wyoming Water Quality Rules and Regulations. This review was performed by Dennis Lamb, CBM / Oil and Gas Group Manager, and Kim Medina, Geological Environmental Analyst, and completed on April 30, 2006. 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."

Volume

08-393

Aquus System by Columbian TecTank

With Blue Future Technology Inside

Operation and Maintenance Manual Pilot Plant Model

AQUUS SYSTEM BY COLUMBIAN TECTANK

Operation and Maintenance Manual

Columbian TecTank
5400 Kansas Ave
Kansas City, Kansas 66106
Phone 913-621-3700 • Fax 913-621-2145

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Aquus System Overview

How does the Aquus System work?

The Aquus System by Columbian TecTank, a division of CST Industries, provides a unique, effective, environmentally-friendly, yet simple approach to treating CBM-produced water. Aquus has the unique ability to treat individual sites, and then be transported to other sites as needs arise.

The patent-pending Aquus System consists of skid-mounted tanks and equipment, designed for easy transport and installation, as well as removal to transport elsewhere when required. Aquus contains an Aeration tank, a Filtration tank, and a small pressure vessel tank. The tanks are installed on skids and will be fully loaded with filtration media and charged for immediate use in the field (some minimal pipe hook-up work is required to connect the individual component tanks).

The water will enter the aeration tank through an inlet pipe where the water will be distributed over an aeration tray. Any entrained gases in the water will be released and driven off during this aeration process. Additionally, the aeration process allows for oxidation of any dissolved metals that might require removal (iron, etc.).

The small pressure vessel tank is attached next to the aeration tank, which will allow the process system at this point to inject any additives to enhance precipitation of targeted dissolved solids or ions. The aeration tank, in conjunction with this pressure vessel tank, provides a tray system that allows for the utilization of a sodium precipitation compound that removes metals and adjusts sodium to other mineral ratios.

After the water has processed through the aeration tank, it will enter between one (1) and four (4) filtration tanks, depending upon the intended bbl/day flow rate. The water will move up through the filter media tank(s), which will remove the precipitated constituents that are targeted, such as sodium, TDS, iron, fluoride etc. Some TDS is

filtered out as part of these precipitated constituents, aligning the EC within the state requirements. The filtered water is ready for discharge once the water has flowed through the filtration tank process.
The filter will eventually require a "clean-up phase" as it slowly accumulates some precipitated compounds. This can be handled readily by downwashing the filter tank with a couple hundred gallons, directly into a truck to haul away. At this point, based upon the treatment guideline goals, we would estimate a downwash interval of once every 90-120 days.

AQUUS SYSTEM BENEFITS

Some of the many benefits of this skid-mounted system are as follows:

1. **Proven and Effective** - We offer a system with a 200-year history of proven effectiveness across the globe, in various applications. This filter technology was first utilized in Scotland in 1804. Poughkeepsie, NY built them in 1870 and still utilizes them today. It is used today across the globe for water purification, desalinization precursor, boron removal, iron/manganese removal, etc., etc.
2. **Adaptive** - This system, by design, can be adapted to treat various constituents in the water by simply manipulating the injection catalyst or the media itself.
3. **Portability** - Aquus is transportable. It is easy to move between sites while being fully-charged, and you have the freedom to treat produced waters at various sites with potentially the same configured system. Aquus can be transported over the road fully charged and ready for use when delivered to the field.
4. **Cost Effectiveness** - The cost effectiveness of these systems will allow you more freedom to handle more of your produced water. The initial asset cost is low, and the maintenance costs are very low when compared to alternative systems.
5. **Low Maintenance** – The maintenance cycles are minimal, being between 45-120 days, depending on the downwash cycles and particular catalyst additive recharging.
6. **Environmentally Friendly** – The system uses no negative impact chemicals to treat the water. No sulfuric or other acid is

ever needed for any treatment process or any cleaning process of this system. This is an entirely "green" approach to treating the water.

7. **Scalability** - The various skid configurations are designed to readily handle four (4) different flow rates, addressed by adding filtration tank skids as required to achieve the desired capacity. Additionally, if the need is to be completely transportable, even for large bbl/day water processes (i.e., 36K bbl/day), additional four-skid configurations can be added to the system to handle the higher flow rates.
8. **Low Energy Consumption** – A small amount of power will be used to monitor and control components and an immersion heater (to prevent the system from freezing in excessively cold weather).

DIAGRAMS

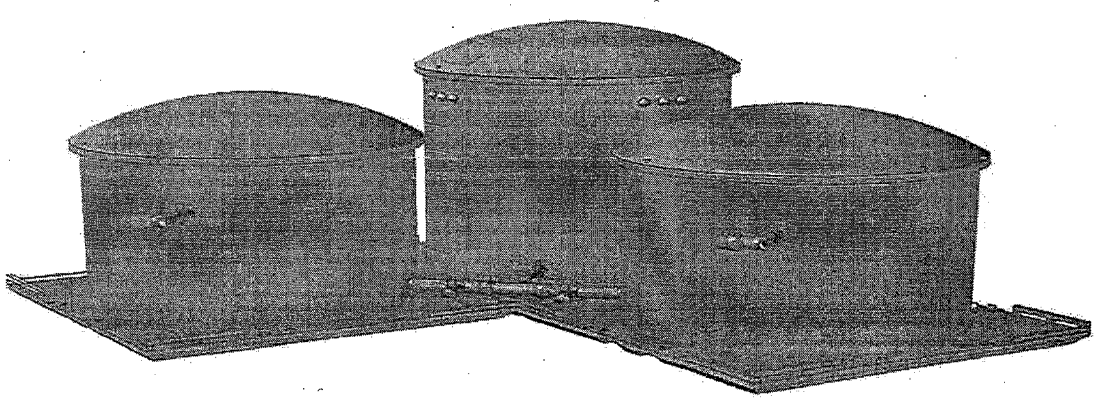

Figure 1. The rendering of the system above shows a single aeration tank and two (2) filtration tanks to treat a 2600 BBL/day flow rate of produced water. Each tank is on its own skid so the tank can be easily transported over the road, fully-charged and ready for immediate use when offloaded in the field.

All the skids are identical in size configuration for ease in transport and connect-ability in the field. The aeration and filtration tanks are identical in diameter for scalability and for skid-fit. Most likely up to four individual skids can be transported over the road on a single truck, reducing freight costs considerably.

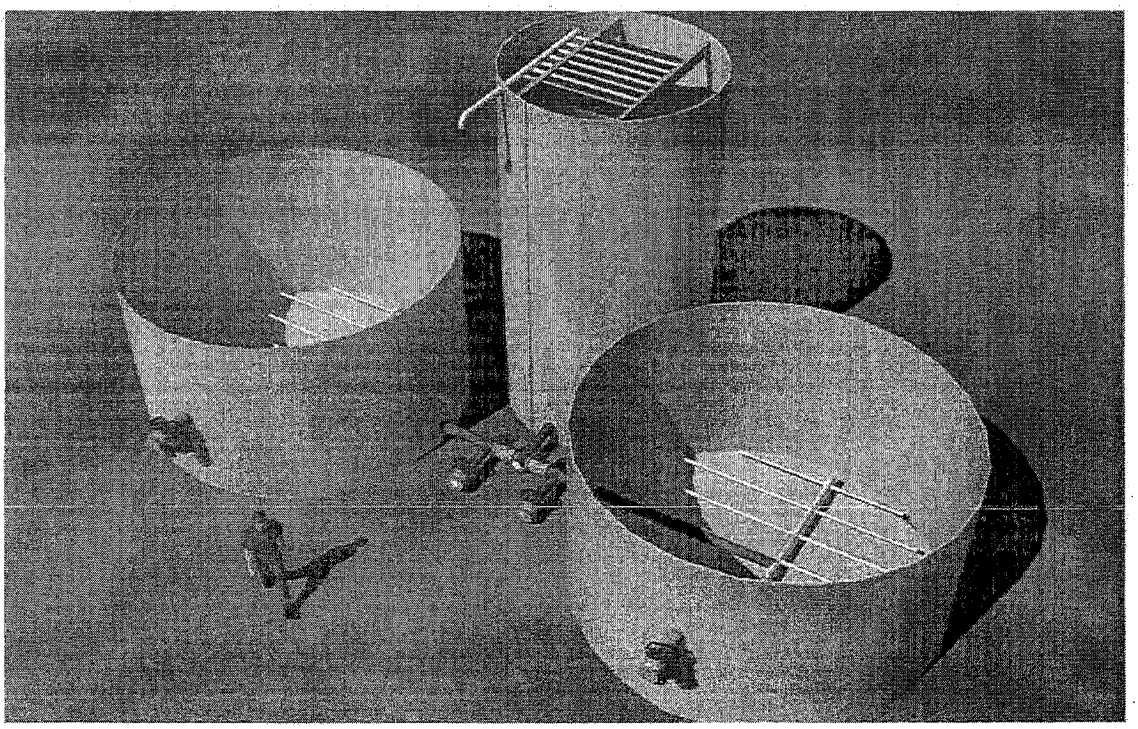

Figure 2. The above rendering shows a view of a 3,500 bbl/day field constructed system.

Operational Parameters

Operational parameters are based on initial water quality and characteristics used to develop the media physical and chemical properties. These parameters are based on the CBM produced water for a specific well(s) and the area in which the well(s) is located. Although the Aquus System is "transportable," do not utilize a specific Aquus unit in another location without consultation with CTT.

The system is designed for a flow rate of 5,200 bbl/day CBM produced water. An in-line flow meter and throttling valve is installed on the incoming line to maintain the desired flow rate.

What happens if characteristics of influent water change

Should the analytical results of the influent water show that the water characteristics have changed, you must consult CTT in Kansas City. The operational parameters will be monitored with lab results from an analytical laboratory, as well as test data collected from hand-held meters and/or portable test kits and/or in-line probes and controller mounted on the system.

Sampling Frequency

This is an initial demonstration unit, and effluent sampling will be conducted with the following sampling frequency:

- Three daily field tests will be conducted for the first week of operation.
- One daily sample will be collected to be delivered to an approved analytical laboratory for constituent tests for the first week of operation.
- Two daily field tests will be conducted the second week of operation.
- One daily sample will be collected to be delivered to an approved analytical laboratory for constituent tests for the second week of operation.
- One daily field test will be conducted the third week of operation.
- One sample will be collected three times per week on alternating days to be delivered to an approved analytical laboratory for constituent tests for the third week of operation.
- Field tests will be conducted four times per week on alternating days for the fourth week of operation.
- One sample will be collected two times per week on alternating days to be delivered to an approved analytical laboratory for constituent tests for the fourth week of operation.

- Field tests will be conducted two per week on alternating days for the fifth through eighth weeks of operation.

- One sample will be collected per week to be delivered to an approved analytical laboratory for constituent tests for the fifth through eighth weeks of operation.

This sampling/testing frequency schedule is based upon all test results being maintained within desired operating parameters.

Additionally, influent water (raw) will be sampled by use of grab samplessa once per week for the first four weeks of operation, and thereafter once per month. This will be conducted to ensure the constancy of the influent water characteristics.

Constituents Analyzed

The constituents to be analyzed from sampling consist of the following:

1. Sodium
2. Magnesium (Total Hardness)
3. SAR
4. Conductivity (EC)/TDS
5. pH
6. Temperature

Sample collection

The field and laboratory tests will be collected as set forth in the sampling frequency section. All field tests and laboratory samples will be conducted and collected using approved industry practices. The field test will be conducted on the effluent water coming from the filtration tank(s). The field samples will be collected in plastic sample bottles. All field probes used will also be cleaned with DI water prior to data collection. A field test log will be created for the tests conducted. In this log, the date, time, and any other ambient conditions will be recorded.

A quick read thermometer will be utilized to read the current temperature of the effluent water coming from the filtration tanks. The temperature of the water will be logged in the field test log.

A hand-held pH meter will be utilized to read the current pH of the effluent water coming from the filtration tanks. The pH of the water will be logged in the field test log.

A hand-held conductivity meter will be utilized to read the current conductivity/TDS of the effluent water coming from the filtration tanks. The conductivity/TDS of the water will be logged in the field test log.

A LaMotte Sodium Test Kit will be used for on-site sodium tests from grab samples on a regular basis. Initially, these grab samples will follow the sampling frequency schedule outlined above. Eventually, a relationship will be developed from corresponding test data so that the sodium level will be correlated using a calculation based upon the conductivity/TDS. The SAR will be calculated as a function based on the sodium level of the water.

The laboratory samples collected at the site will also follow the sampling frequency listed previously. The samples will be collected using laboratory-supplied sample bottles. The samples will be labeled with date, time, Aquus location, and particular sample port for the tank being sampled. Should the correct test procedure not be included on the laboratory supplied labels, the test to be conducted on the sample should be hand written on the label. The samples will then be placed in a transport container supplied by the analytical laboratory and a chain of custody created. The samples will be delivered to the testing laboratory.

Analytical Review

The field tests will give instantaneous guidance as to the Aquus efficiency. The laboratory results will support the field tests conducted at the site. Field test readings for pH, conductivity (TDS), and temperature will take precedence over laboratory-analyzed results for these parameters if discrepancies are noted.

The Aquus can be modified to run more efficiently should the sodium levels in the effluent rise or fall periodically. Any modifications to the Aquus will only be effected after direct consultation with CTT. Any modifications to the Aquus will be documented in the operations log for the individual system. Should the analytical results indicate field measurement errors, the Aquus operation will be modified to reach optimal efficiency.

How to determine the operational efficiency

The operational efficiency can be determined by analyzing the operational parameters and constituent levels identified both by field test data and supported by analytical results. Aquus' function is to decrease the SAR to acceptable discharge requirements by means of raising magnesium and reducing sodium. As the Aquus reduces sodium and increases magnesium, precipitation of sodium compounds accumulates in the filter tank (as well as some in the aeration tank).

The filter tanks begin to show signs of inefficiency when the head builds in the aeration tank. The rise of head in the aeration tank can be indicative of one of two things. First check the flow rate coming into the aeration tank so that the flow rate is at or below the designed 5,200 bbl/day flow rate. Or, the rise in head is indicative of filter tank inefficiency due to gradually amassing precipitate in the media. If the flow rate is set

correctly and the static water level rises to 75 inches in the aeration tank, the Aquus should be scheduled for a downwash event.

This downwash event should occur at approximately 90-120 days after the last downwash event.

What to do if effluent water is "off-spec"

If the sample test data indicate that the treated water is outside of the parameter limitations for effluent quality as set forth by WY DEQ for discharge purposes, CTT in Kansas City must be immediately notified. This "off-spec" water can be diverted back to the adjacent reservoir, or the influent water source can be shut off altogether, until CTT can make a determination of the reason(s) for the "off-spec" water and take appropriate actions.

Proprietary Treatment Product(s)

The proprietary treatment product should be checked at each and every scheduled monthly sample collection event. The pressure vessel or other product-holding container (within aeration tank, such as perforated tray) will be refilled as the product(s) is(are) consumed in the process. The product dosage can be adjusted by adjusting the flow valve located in the feed line after the pressure vessel or by adding additional product to the holding container. Consult CTT to adjust dosage of product to meet required water quality parameters.

How to conduct a downwash cycle event

Start-up

Open the inlet valve until the desired flow for the filter is achieved by monitoring the flow meter. Allow system to fill at this rate until the water in the filter tank approaches the outlet level. Open the downwash valve and drain the filter to an approved collection facility (tank, vac truck etc.) to remove suspended material. You may need to do this several times.

Periodic maintenance

To work properly, the Aquus System needs to be maintained on a regular basis. The main task is regular downwashing of the media.

To downwash a single filter cell:

1. First, adjust incoming flow rate downward by the value of the target cells. flow rate. For example, if 4 cells are used, reduce flow into the aeration tank by 25%.
2. Second, close the shutoff valve to the cell to be downwashed.
3. Third, open the downwash valve and drain until water disappears below screen in filter cell, or until water runs clear from downwash valve. This will normally be 200-500 gallons.

Rinsing

1. After downwashing, adjust inlet to aeration tank back to normal flow.
2. Second, open shutoff valve to allow water to enter filter vessel.
3. Third, close outlet valve and open rinse valve.
4. Run water through rinse valve until turbidity or cloudiness diminishes to normal.
5. Close rinse valve and open outlet valve, returning filter to full operation.

At some point, typically after 12 to 18 months operation, more thorough cleaning may be necessary. This can be accomplished as follows:

1. First, downwash as normal.
2. Then, close valve from aeration tank and open valve leading from inlet water line to the fitting between aeration tank shutoff and tee branch to the two filter cells.
3. Close the filter cell inlet valve for the cell you don't want to clean.
4. As water rises in filtration tank to near the outlet level, close the incoming pressure water valve and immediately downwash.
5. Repeat this procedure if necessary until downwash water runs clear.

Aeration tank cleaning

Check aeration tank periodically for buildup of solids (every six months to once per year). To clean aeration tank:

1. Close valve from chemical feed tank, noting its normal setting so valve may be returned to that setting after aeration tank cleaning.
2. Close main inlet valve to aeration tank.
3. Drain aeration tank through drain fitting near bottom of tank (note—not the filter tank downwash valve!). Flush tank if necessary.
4. Open main inlet valve.
5. Return chemical feed valve to normal flow position.

Troubleshooting

1. Water level high. Headloss might be building up. Downwash filter.
2. Downwashing needed too often. Media needs more thorough cleaning; see section above. Or, flow rate is too high; reduce flow rate.
3. Breakthrough. Filter needs downwashing, or flow rate is too high (reduce flow rate), or chemical feed is too high (reduce chemical feed), or aeration tank needs draining (drain aeration tank).

How to take the system down

First, shut the valve leading to the small pressure vessel. Then, close the inlet valve monitoring the flow meter until flow stops. To restart, reverse these steps, starting main flow to aeration tank and adjusting to design flow, then opening valve to pressure vessel and adjusting flow by observing flow meter until design flow is reached.

Disposal of downwash material

All downwash, flush, and rinse water must be disposed of properly. If CTT downwash/rinse tank is not available as a receiving receptacle, then all downwash, flush, and rinse water should be placed in an appropriate vac truck and removed from the area to be transported to an appropriate disposal location. (For Pilot Plants, disposal will be to Campbell County Landfill, 909 Westover Road, Gillette, WY, 82716, based upon arrangements made through Marathon Oil Company of Gillette, WY.)

The State
of Wyoming

Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

NOTIFICATION OF COVERAGE

June 20, 2008

Randall W. Maxey
Devon Energy Production Company, L.P.
20 North Broadway
Oklahoma City, OK 73102-8260

RE: West Pine Tree Unit Barium Treatment Project
Permit No. 08-394

Dear Mr. Maxey:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Pilot Project in accordance with Section 5, Chapter 11, 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 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.

The following items need to be submitted to WDEQ/WQD CBM Group:

a. Date that the construction of the treatment facility will begin;

b. Certification the construction of the treatment facility was done in accordance with the terms and conditions of the permit; or

   Certification the construction of the treatment facility was completed with changes or modifications.

c. A monthly (weekly during initial start-up) report including on-site and lab analytical data relating to the facility's performance for meeting the discharge requirements (influent and effluent pH and barium), treatment/discharge volumes, any problems with the system and what has been done to correct them, or a notification that the plant has not been operating;

d. Immediate notification to WDEQ/CBM Group of any violations, exceedences, upsets, or incidents relating to the facility and its operation.

Please notify WDEQ at least one week prior to start-up or initial processing of CBM water. If you have any questions, please contact Dennis Lamb or Kim Medina at 152 North Durbin, Casper, WY, 82601, (307) 473-3465. Thank you.

Sincerely,

Kim J. Medina
Geological Project Analyst
DEQ/WQD

Enclosures: Certificate of Completion

cc: WDEQ File
IPS Cheyenne
Jack Fritz, WWC Engineering, 1849 Terra Avenue, Sheridan, WY 82801 (without enclosures)

Department of Environmental Quality

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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

August 21, 2008

Robert Juve, City Engineer
City of Torrington
2042 East A Street
Torrington WY 82240

RE: CITY OF TORRINGTON-SANI-SEWER LINES REHAB-2008,
Application No. **08-395**, Goshen County

Dear Robert Juve:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and or Existing Sewage Collection Systems described as replace 640' of 6" sewer with 8" PVC sewer and replace 1,105' of 6"& 8" sewer with 8" PVC sewer and replace 15" sewer with 15 PVC sewer, NW1/4 Section 15 SW1/4 SECTION 10, NW ¼ SECTION 10; T24NR61W; Goshen County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by August 21, 2010.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **08-395** in any future correspondence.

If you have any questions, please contact me at 307-777-7075.

Sincerely,

Rich Cripe

Rich Cripe PE
Southeast District Engineer
Water Quality Division

RRC/rm/8-0629

cc: IPS, Cheyenne
Ed Nowak, Camp Creek Engineering, 410 E. Grand Ave, Suite 205, Laramie WY 82070

REVIEW OF PLANS AND SPECIFICATIONS

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

Professional Engineer (Civil) RICHARD R. CRIPE 8288 Date 8/1/2008 WYOMING

PROJECT: City of Torrington, Sanitary Lines Rehabilitation
ENGINEER: Camp Creek Engineering, Inc.
APPLICANT: Town of Torrington

WATER QUALITY DIVISION REFERENCE NUMBER: **08-395**
REVIEWING ENGINEER: Rich Cripe
DATE OF REVIEW: August 1, 2008

ACTION: **NOT AUTHORIZED FOR CONSTRUCTION**. In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 9. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS

1. Chapter 11, Section 24(a). You must develop and submit and an operation and maintenance manual for the sewage grinder. A statement should be added to the specifications (Section 11260) that addresses this issue.

2. Chapter 11, Section 9 f (ii) and Section 14 g(i). This water line crossing (sheet 9) does not meet this requirement. Therefore, the sewer line shall be placed in a separate conduit (vented and rubber boot at ends) or backfilled with flow-fill. It must not have a joint within 9 feet of the crossing if a casing is used. If the sewer lines are installed in flow- fill according to the manufactures recommendations, then they are protected from movement, deflection or damage and will not leak. Thus, the joints do not need to be 9 feet from the crossing. The Manhole on this crossing will need to meet this requirement or will need to be moved. In addition, the water line on sheet 8 does not indicate the depth. Therefore, a note must be included on the sheet specifying it is the contractor's responsibility to meet this requirement. The note needs to have enough clarity so the contractor does not misunderstand.

3. Chapter 11, Section 7 d (iii). If the plans do not address construction and installation procedures, then the specifications need to address it. The plans do not indicate how the sewer lines will be abandoned or removed. A sewer line can be abandoned if it is at least 5 feet from existing sewer lines and or water lines. It will need to be capped at the ends with concrete or flow-fill. In addition, there are four manholes (see segment B sheets) that will need to be removed. How will the removal of sewer lines and manholes be paid?

RRC/rm/8-0584

Reviewed by Rich Cripe, Phone 307-777-7075, email: rcripe@wyo.gov

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

No Public Water System Number Assigned

PERMIT NO. **08-396R**

Sublette County - EnCana Workforce Facility, Water Treatment System

This permit hereby authorizes the applicant:

Jeff Johnson
EnCana Oil & Gas (USA) Inc.
370 17th St., Suite 1700
Denver, CO 80202

to construct a water treatment system to service a public water distribution water system for a 350 person man-camp, consisting of a RO treatment facility and appurtances; according to the procedures and conditions of the application number **08-396R**. The supply well, water storage tank and water distribution system were previously permitted with permit numbers 08-229R and 07-462R respectively. The facility is located at the southern edge of the Jonah Field at Latitude 42.413889, Long 109.71; in the county of Sublette, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by September 04, 2010.

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

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

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

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

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

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

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

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

1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 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

9-5-08
Date of Issuance

PDR/rm/8-0669

STATEMENT OF BASIS

1. Permit Number: 08-396R

2. Application reviewed for compliance with the following regulations:

   Chapters 3 and 12 of the Wyoming Water Quality Rules and Regulations.

3. Does the permit comply with all applicable regulations identified above?

   Yes.

4. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.

   No.

5. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.

   NA

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 Perry Roberson, prober2@Wyo.gov, Consulting Engineer, approved by Mark Baron P.E. Southwest District Engineer and completed on September 4, 2008. 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: Michelle L.D. Sell, P.E.., Trihydro Corporation,1252 Commerce Drive,
Laramie, WY 82070

Dave Freudenthal, Governor

Department of Environmental Quality

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

John Corra, Director

NOTIFICATION OF COVERAGE

July 3, 2008

Mark Larsen, President
U. S. Energy Corp
877 North 8th West
Riverton, WY 82501

RE: Sunset Village Apartments, Permit Number: 08-398, SW ¼ NW ¼, Section 27, T. 1.N, R.4.E, W.R.M, Fremont County

Dear Mr. Larsen:

This project involves the construction of approximately 3510 LF of 8" PVC water main and 2262 LF of 6", 8" and 10" PVC sanitary sewer to serve six 24 unit apartments. The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 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.

If you have any questions, please contact either me or James Brough at 307-332-3144.

Sincerely,

Atheer Alanbagi,
Reviewing Engineer
Water Quality Division

James Brough

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

xc: IPS, Cheyenne
Christina D. Willhelm, P.E., Inberg-Miller Engineers, Inc124 East Main Street, Riverton, WY 82501
Bill Urbigkit, City of Riverton, 816 North Federal Blvd., Riverton, WY 82501

encl: Generals Permit For Public Water Supply System and Existing Sewage Collection System

Dave Freudenthal, Governor

Department of Environmental Quality

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John Corra, Director

NOTIFICATION OF COVERAGE

July 14, 2008

Michael Simmons,
Big Horn County School District Number One
P. O. Box 688
Cowley, WY 82420

RE: Rocky Mountain Junior/Senior High School new water and sewer line, Permit Number: 08-399, SW ¼, Section 32, T57N, R96W, Big Horn County

Dear Mr. Simmons:

This project involves the construction of a new water and sewer line to service the planned new junior/ senior high school in Cowley, Wyoming. This application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the 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.

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

Sincerely,

Atheer Alanbagi
Reviewing Engineer
Water Quality Division

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

xc: Scott H. Lewis, P. E., Inberg-Miller Engineering, Inc., 428 Alan Road, Powell, WY 82435
IPS, Cheyenne

encl: General Permits For a Public Water Supply Distribution System and Sewage Collection System

Department of Environmental Quality

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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

September 30, 2008

Matt Harber
Haymaker Landholding Company
P.O. Box 1902
Pinedale, WY 82941

RE: Pinedale-Park at Bloomfield Infrastructure - Water and Sewer Main Extensions - Permit Number 08-400, SE ¼ Section 32, T34N, R109W, Sublette County

Dear Mr. Harber:

The above application for coverage under General Permits to Construct the extension of a public water supply distribution system and the extension of a sewage collection system consisting of about 3274 linear feet (LF) of 8-inch Ductile Iron water main and about 2215 LF of 8-inch PVC sewer main to serve 107 mobile home lots 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 permits.

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

Sincerely,

Mark Baron

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

xc: IPS, Cheyenne
Brian Gray, WLC Engineering, P.O. Box 1519, Pinedale, WY 82941

encl: General Permit for a Public Water Supply Distribution System,
General Permit for a Sewage Collection System

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 332-3183